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Comment:

* 3.1.0 Version cited in 21 st Centuries Cures Act <https://www.federalregis>

FHIR R4:

<http://hl7.org/fhir/R4/downloads.html>

[Link to Change Log](#)

CDC NHSN dQM IG Profile - Daily	RPS
Respiratory Pathogen Surveillance Event Lab	MS
Respiratory Pathogen Surveillance Event Re	R
Respiratory Pathogen Surveillance Event Lab	MS
Respiratory Pathogen Surveillance Event Loc	R
Respiratory Pathogen Surveillance Event Me	MS
Respiratory Pathogen Surveillance Event Me	MS
Respiratory Pathogen Surveillance Event Re	MS
in progress	MS
Cross-Measure Patient Profile	R
Respiratory Pathogen Surveillance Event Pro	MS
Respiratory Pathogen Surveillance Event Se	MS
Respiratory Pathogen Surveillance Event Sp	MS

ster.gov/documents/2020/05/01/2020-07419/21st-century-cures-act-interoperability-

information-blocking-and-the-onc-health-it-certification

Details **FHIR Master Data Dictionary**

Version of Document:	1.00
Date of Document	2/9/2024
Draft Purpose	This FHIR Master Data Dictionary document
Authors	dQM Leads, Protocol Leads
Scope	All daily NHSN measures

Abbreviation	Name
MS	Must Support
R	Required
NR	Not Required
NRT	Not Required by Technical Team
AI	Action Item
CQL	Clinical Quality Language

Key for use of colors, fonts, and tabs

Red Font	Cardinality differs from FHIR R4 or US Co
Bold Font	In the FHIR Resource tabs, it indicates th
Teal Tab	FHIR R4 v.4.0.1 Profiles
Maroon Tab	US Core v.3.1.1 Profiles

NHSN Technical Guidance

- Mark all **{Resource}.{dataElement}.identifiers** as NRT.
- Mark all **{Resource}.contained** as NRT.
- Mark all **{Resource}.meta** as NRT.
- Mark all **{Resource}.text** as NRT.

ents the NHSN specific measure requirements to inform the development of the CI

Details

If available, it will be queried by NHSNLink for measure calculation or risk adjustment.

Required to be queried by NHSNLink for the NHSN Application to determine initial population.

Queried by NHSNLink but not required to calculate the measures.

Queried by NHSNLink but determined by the technical team as not needed.


In the change log tab, the dQM leads will indicate if an update requires an action item.

CQL is machine-readable and structured on the FHIR data model.

The NHSN dQM CQL defines the following items:

- The initial population eligible for the measure
- Line-level data required to calculate measure metrics
- Additional line-level data for stratification, risk adjustment, social determinants of health, and patient matching

ire standards or conformance is more constrained against FHIR R4 or US Core profile parent data elements.



DC NHSN dQM IG for daily measures.



Comments

Must be designated as MS or R if wanted in the Silver table.

Must be designated as MS or R if wanted in the Silver table.

Elements designated as NR will go into the Bronze table but will not progress to Silver.

NRT elements will not be copied to Bronze and will only exist in the bundle itself, which are archived by NHSN.

If an AI is identified, a Jira ticket is typically assigned to a responsible party.

FHIR bundle validation will occur against the CDC NHSN dQM IG, version 3.1.1 of US Core Profiles, and version 4.0.1 of FHIR R4.



iles.



Date of Request	Measure Name
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
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4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures
4/18/2023	All Measures

5/2/2023

All measures

5/8/2023

HT-CDI/HOB and RPS

5/8/2023

HT-CDI/HOB and RPS

5/8/2023
5/15/2023

HT-CDI/HOB and RPS
All measures

5/15/2023
5/15/2023

All measures
All measures

5/15/2023

All measures

5/16/2023

All measures

8/1/2023 All measures
8/1/2023 All measures
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8/1/2023 All measures

8/1/2023 All measures
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8/1/2023 All measures

8/2/2023	All measures
8/2/2023	All measures
8/2/2023	All measures
8/2/2023	All measures
8/2/2023	All measures
8/7/2023	All measures
8/7/2023	RPS
8/7/2023	RPS
8/7/2023	RPS
8/7/2023	RPS
8/7/2023	RPS
8/7/2023	RPS
8/7/2023	Cross Measure Technical Team Requirements Review column
8/14/2023	RPS
9/6/2023	All Resource Tabs, New Cross- Measure dQM Alignment, monthly column added
10/2/2023	Cross-Measure dQM alignment, monthly
10/2/2023	Cross-Measure dQM alignment, monthly
10/3/2023	TOC Tab
10/4/2023`	TOC and all Resource Tabs
10/10/2023	TOC
10/25/2023	ACH, VTE, LOS/MEN, CDI/HOB, Hypo, RPS
11/6/2023	RPS
11/6/2023	RPS
11/6/2023	RPS

11/6/2023	RPS
11/7/2023	All
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
11/21/2023	All applicable measures
12/13/2023	All
12/13/2023	All
12/13/2023	All

12/22/2023

RPS

12/22/2023

RPS

1/2/2024	HT-CDI/HOB, LOS/MEN, VTE, RPS
1/2/2024	ACH, HT-CDI/HOB, Hypo, LOS/MEN, VTE, RPS
1/2/2024	ACH, HT-CDI/HOB, Hypo, LOS/MEN, VTE, RPS
1/2/2024	ACH, HT-CDI/HOB, Hypo, LOS/MEN, VTE, RPS
1/2/2024	ACH, HT-CDI/HOB, Hypo, LOS/MEN, VTE, RPS
1/2/2024	ACH, HT-CDI/HOB, Hypo, LOS/MEN, VTE, RPS
1/4/2024	All measures
1/4/2024	ACH, HT-CDI/HOB, LOS/MEN, VTE, RPS
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
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1/4/2024	All measures
1/4/2024	All measures
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1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	ACH, HT-CDI/HOB, LOS/MEN, VTE, RPS
1/4/2024	ACH, HT-CDI/HOB, LOS/MEN, VTE, RPS
1/4/2024	ACH, HT-CDI/HOB, LOS/MEN, VTE, RPS
1/4/2024	All measures
1/4/2024	All measures
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1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	All measures
1/4/2024	RPS
1/19/2024	RPS

1/19/2024	RPS
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1/24/2024	ACH, CDI/HOB, LOS/MEN, VTE, RPS
1/24/2024	ALL
1/29/2024	ALL
1/29/2024	ALL
1/29/2024	RPS
1/30/2024	ALL
1/30/2024	ALL
1/30/2024	ALL

1/30/2024	ALL
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2/8/2024	RPS
2/9/2024	HT-CDI/HOB, LOS/MEN, RPS, VTE
2/9/2024	RPS
6/17/2024	RPS

Data Element	Changed From
{Resource}.language	NR
{Resource}.implicitRules	NR
{Resource}.Identifier.period	MS[0..1] in Encounte Resource
{Resource}.Identifier.assigner	NR
Encounter.EpisodeOfCare	MS [0..1]
Encounter.BasedOn	NR
Encounter.serviceProvider	NR
Encounter.appointment	NR
Condition.recorder	NR
Condition.asserter	NR
Coverage.type	NR
Coverage.dependent	NR
Coverage.costToBeneficiary	NR
Observation.category.extension	NR
Medication.ingredient.isActive	NR
MedicationRequest.statusReason	NR
MedicationRequest.supportingInformatio n	NR
MedicationRequest.performer	NR
MedicationRequest.performerType	NR
MedicationRequest.instantiatesCanonical	MS [0..1]
MedicationRequest.instantiatesUri	NR
MedicationRequest.basedOn	NR
MedicationRequest.groupIdentifier	NR
MedicationRequest.insurance	NR
MedicationRequest.note	NR
MedicationRequest.dosageInstruction.seq uence	NR
MedicationRequest.dosageInstruction.ad ditionalInstruction	NR
MedicationRequest.dosageInstruction.site	MS[0..1] for Hypo and CDI/HOB
MedicationRequest.dosageInstruction.ma xDosePerPeriod	NR
MedicationRequest.dosageInstruction.ma xDosePerAdministration	NR
MedicationRequest.dosageInstruction.ma xDosePerLifetime	NR
MedicationRequest.substitution	NR
MedicationRequest.dispenseRequest	NR
MedicationRequest.priorPrescription	NR
MedicationRequest.detectedIssue	NR
MedicationRequest.eventHistory	NR

MedicationRequest.requester	Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitionerrole http://hl7.org/fhir/us/core/StructureDefinition/us-core-relatedperson Device)
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MedicationRequest.reasonReference	NR
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MedicationRequest.instantiatesCanonical	NRT
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MedicationRequest.instantiatesUri	NRT
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Medication.ingredient.itemCodeableConcept	MS [0..1]
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Medication.ingredient.itemReference	
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NA	NA
----	----

Condition.onset.onsetDateTime	NR
-------------------------------	----

Condition.onset.onsetAge	
--------------------------	--

Condition.onset.Period	
------------------------	--

Condition.onset.Range	
-----------------------	--

Condition.onset.String	
------------------------	--

Condition.abatement.onsetDateTime	N/A
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Condition.abatement.onsetAge	
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Condition.abatement.Period	
----------------------------	--

Condition.abatement.Range	
---------------------------	--

Condition.abatement.String	
----------------------------	--

DiagnosticReport.effective.effectiveDateTime	NR
--	----

DiagnosticReport.effective.Period	
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Observation.category	NR
Location resource designation in TOC	MS
Medication.code	
TOC, dQM Measure Lead/Back-up Clinical Analyst Row	N/A
Specimen.subject	NR
Specimen.collection	MS [0..1]
Specimen.collection.id	NR
Specimen.collection.extension	NR
Specimen.collection.modifierExtension	NR
MedicationAdministration.context	NR
MedicationAdministration.request	NR
Condition.clinicalStatus	NA
Condition.verificationStatus	NA
Patient.contact.modifierExtension	[0..1]
Patient.communication.modifierExtension	[0..1]
Patient.identifier.period	NRT - in technical column
Specimen.processing.modifierExtension	NR
Specimen.container.modifierExtension	NR
Specimen.container.identifier	NR
Specimen.text	NR
Specimen.contained	NR
Specimen.extension	NR
Specimen.processing.id	NR
Specimen.processing.extension	NR
Specimen.container.id	NR
Specimen.container.extension	NR
N/A	Y or N
Specimen.meta	NR
Specimen.modifierExtension	NR
Specimen.collection.id	NR
Specimen.collection.extension	NR
Specimen.collection.modifierExtension	NR
(Abbreviation Tab)	NA
Condition.meta	NR
Condition.text	NR
Condition.contained	NR
Condition.extension	NR
Condition.modifierExtension	NR
Condition.identifier	NR
Condition.stage.id	NR

Condition.stage.extension	NR
Condition.stage.modifierExtension	NR
Condition.evidence.id	NR
Condition.evidence.extension	NR
Condition.evidence.modifierExtension	NR
Coverage.meta	NR
Coverage.text	NR
Coverage.contained	NR
Coverage.extension	NR
Coverage.modifierExtension	NR
Coverage.identifier	NR
Coverage.class.id	NR
Coverage.class.extension	NR
Coverage.class.modifierExtension	NR
DiagnosticReport.meta	NR
DiagnosticReport.implicitRules	NR
DiagnosticReport.language	NR
DiagnosticReport.contained	NR
DiagnosticReport.extension	NR
DiagnosticReport.modifierExtension	NR
DiagnosticReport.identifier	NR
DiagnosticReport.category:LaboratorySlic e.id	NR
DiagnosticReport.category:LaboratorySlic e.id.extension	NR
DiagnosticReport.category:LaboratorySlic e.coding.id	NR
DiagnosticReport.media.id	NR
DiagnosticReport.media.extension	NR
DiagnosticReport.media.modifierExtensio n	NR
DocumentReference.meta	NR
DocumentReference.text	NR
DocumentReference.contained	NR
DocumentReference.extension	NR
DocumentReference.modifierExtension	NR
DocumentReference.masterIdentifier	NR
DocumentReference.identifier	NR
DocumentReference.relatesTo.id	NR
DocumentReference.relatesTo.extension	NR
DocumentReference.relatesTo.modifierEx tension	NR
DocumentReference.content.id	NR
DocumentReference.content.extension	NR

DocumentReference.content.modifierExtension	NR
DocumentReference.content.attachment.id	NR
DocumentReference.content.attachment.extension	NR
DocumentReference.content.attachment.language	NR
DocumentReference.context.id	NR
DocumentReference.context.extension	NR
DocumentReference.context.modifierExtension	NR
Encounter.meta	NR
Encounter.text	NR
Encounter.contained	NR
Encounter.extension	NR
Encounter.modifierExtension	NR
Encounter.identifier.id	NR
Encounter.identifier.extension	NR
Encounter.statusHistory.id	NR
Encounter.statusHistory.extension	NR
Encounter.statusHistory.modifierExtension	NR
Encounter.classHistory.id	NR
Encounter.classHistory.extension	NR
Encounter.classHistory.modifierExtension	NR
Encounter.participant.id	NR
Encounter.participant.extension	NR
Encounter.participant.modifierExtension	NR
Encounter.diagnosis.id	NR
Encounter.diagnosis.extension	NR
Encounter.diagnosis.modifierExtension	NR
Encounter.diagnosis.condition	NR
Encounter.hospitalization.id	NR
Encounter.hospitalization.extension	NR
Encounter.hospitalization.modifierExtension	NR
Encounter.location.id	NR
Encounter.location.extension	NR
Encounter.location.modifierExtension	NR
Immunization.meta	NR
Immunization.implicitRules	NR
Immunization.language	NR
Immunization.text	NR
Immunization.contained	NR

Immunization.extension	NR
Immunization.modifierExtension	NR
Immunization.performer.id	NR
Immunization.performer.extension	NR
Immunization.performer.modifierExtension	NR
Immunization.education.id	NR
Immunization.education.extension	NR
Immunization.education.modifierExtension	NR
Immunization.reaction.id	NR
Immunization.reaction.extension	NR
Immunization.reaction.modifierExtension	NR
Immunization.protocolApplied.id	NR
Immunization.protocolApplied.extension	NR
Immunization.protocolApplied.modifierExtension	NR
Device.meta	NR
Device.implicitRules	NR
Device.language	NR
Device.text	NR
Device.contained	NR
Device.extension	NR
Device.modifierExtension	NR
Device.identifier	NR
Device.deviceName.id	NR
Device.deviceName.extension	NR
Device.deviceName.modifierExtension	NR
Device.specialization.id	NR
Device.specialization.extension	NR
Device.specialization.modifierExtension	NR
Device.version.id	NR
Device.version.extension	NR
Device.version.modifierExtension	NR
Device.property.id	NR
Device.property.extension	NR
Device.property.modifierExtension	NR
Observation.meta	NR
Observation.text	NR
Observation.contained	NR
Observation.extension	NR
Observation.modifierExtension	NR
Observation.identifier	NR
Observation.category.id	NR
Observation.referenceRange.id	NR

Observation.referenceRange.extension	NR
Observation.referenceRange.modifierExtension	NR
Observation.component.id	NR
Observation.component.extension	NR
Observation.component.modifierExtension	NR
Location.meta	NR
Location.text	NR
Location.contained	NR
Location.extension	NR
Location.modifierExtension	NR
Location.address.id	NR
Location.address.extension	NR
Location.position.id	NR
Location.position.extension	NR
Location.position.modifierExtension	NR
Location.hoursOfOperation.id	NR
Location.hoursOfOperation.extension	NR
Location.hoursOfOperation.modifierExtension	NR
Medication.meta	NR
Medication.text	NR
Medication.contained	NR
Medication.extension	NR
Medication.modifierExtension	NR
Medication.identifier	NR
Medication.ingredient.id	NR
Medication.ingredient.extension	NR
Medication.ingredient.modifierExtension	NR
Medication.batch.id	NR
Medication.batch.extension	NR
Medication.batch.modifierExtension	NR
MedicationAdministration.meta	NR
MedicationAdministration.text	NR
MedicationAdministration.contained	NR
MedicationAdministration.extension	NR
MedicationAdministration.modifierExtension	NR
MedicationAdministration.identifier	NR
MedicationAdministration.performer.id	NR
MedicationAdministration.performer.extension	NR

MedicationAdministration.performer.modifierExtension	NR
MedicationAdministration.dosage.modifierExtension	NR
MedicationRequest.meta	NR
MedicationRequest.text	NR
MedicationRequest.contained	NR
MedicationRequest.extension	NR
MedicationRequest.modifierExtension	NR
MedicationRequest.identifier	NR
MedicationRequest.substitution.id	NR
MedicationRequest.substitution.extension	NR
MedicationRequest.substitution.modifierExtension	NR
Observation.meta	NR
Observation.text	NR
Observation.contained	NR
Observation.extension	NR
Observation.modifierExtension	NR
Observation.identifier	NR
Observation.referenceRange.id	NR
Observation.referenceRange.extension	NR
Observation.referenceRange.modifierExtension	NR
Procedure.meta	NR
Procedure.text	NR
Procedure.contained	NR
Procedure.extension	NR
Procedure.modifierExtension	NR
Procedure.identifier	NR
Procedure.performer.id	NR
Procedure.performer.extension	NR
Procedure.performer.modifierExtension	NR
Procedure.focalDevice.id	NR
Procedure.focalDevice.extension	NR
Procedure.focalDevice.modifierExtension	NR
ServiceRequest.meta	NR
ServiceRequest.text	NR
ServiceRequest.contained	NR
ServiceRequest.extension	NR
ServiceRequest.modifierExtension	NR
ServiceRequest.identifier	NR
Patient.meta	NR
Patient.implicitRules	NR
Patient.language	NR

Patient.text	NR
Patient.contained	NR
Patient.modifierExtension	NR
Patient.telecom.id	NR
Patient.telecom.extension	NR
MedicationRequest.dosageInstruction.site	NRT

Encounter.diagnosis	MS
Encounter.diagnosis.condition	NRT
MedicationRequest.reasonReference	MS

Encounter.diagnosis.use	NRT
Encounter.diagnosis.rank	NRT
Encounter.status	R [1..1]

Constrain CQL to triaged
| in-progress | finished

Encounter.diagnosis.condition	NRT
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MedicationRequest.dosageInstruction.text	MS [0..1]
NA	NA

All data element alignment analysis	NA
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All data element alignment analysis	NA
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NHSN IG - Cross Measure, Monthly Column
Added an "ACH dQM" column with
requirements

Medication and Medication Request
Resources in ACH dQM

Observation.component.code	MS [1..1]
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Medication.status	NR
Specimen.status	NR
Observation - Vital Signs Resource/Profile	NA

Encounter.status	R [1..1] Constrain CQL to triaged in-progress onleave finished
Patient.extension (gender identity) Encounter.type	MS [0..1] http://hl7.org/fhir/us/core/
Encounter.diagnosis.use	http://hl7.org/fhir/ValueSe
Encounter.hospitalization.admitSource	http://hl7.org/fhir/ValueSe
Encounter.location.status	http://hl7.org/fhir/ValueSe
Device.status	http://hl7.org/fhir/ValueSe
Device.deviceName.type	http://hl7.org/fhir/ValueSe
Observation.category	http://hl7.org/fhir/ValueSe
Observation.interpretation	http://hl7.org/fhir/ValueSe
Observation.component.interpretation	http://hl7.org/fhir/ValueSe
Implantable Device (US Core) Device.owner	N/A
Implantable Device (UsCore) Device.contact	N/A
Implantable Device (UsCore) Device.location	N/A

Implantable Device (UsCore) Device.url	N/A
Implantable Device (UsCore) Device.note	N/A
Implantable Device (UsCore) Device.safety	N/A
Implantable Device (UsCore) Device.parent	N/A
Observation Vital Signs (R4) Observation.component.referenceRange.l ow	N/A
Observation Vital Signs (R4) Observation.component.referenceRange. high	N/A
Observation Vital Signs (R4) Observation.component.referenceRange. type	N/A
Observation Vital Signs (R4) Observation.component.referenceRange. appliesTo	N/A
Observation Vital Signs (R4) Observation.component.referenceRange. age	N/A
Observation Vital Signs (R4) Observation.component. referenceRange.text	N/A
Observation.code	R [1..1]

Observation.value[x]

MS [0..1]

(could have a null if lab
result/status is not yet
finalized)

Medication.code

R [1..1]

Observation.value[x]	MS [0..1]
	(could have a null if lab result/status is not yet finalized)
Location.alias	MS [0..*]
Medication	MS [0..*]
Medication.form	MS [0..1]
Medication.amount	MS [0..1]
Medication.ingredient	MS [0..*]
Observation.encounter (Lab Result Observation)	MS [0..1]
DiagnosticReport.specimen	MS [0..*]
Location.partOf	MS [0..1]
MedicationAdministration	MS [0..*]
MedicationAdministration.statusReason	MS [0..*]
MedicationAdministration.category	MS [0..*]
MedicationAdministration.reasonCode	MS [0..*]
MedicationAdministration.reasonReference	MS [0..*]
MedicationRequest.dosageInstruction.method	MS [0..1]
MedicationRequest.dosageInstruction.doseAndRate	MS [0..*]
MedicationRequest.dosageInstruction.doseAndRate.type	MS [0..1]
MedicationRequest.dosageInstruction.doseAndRate.dose[x]	MS [0..1]
MedicationRequest.dosageInstruction.doseAndRate.rate[x]	MS [0..1]
Procedure	MS [0..*]
Procedure.encounter	MS[0..1]
Procedure.location	MS [0..1]
ServiceRequest	MS [0..*]
ServiceRequest.category	MS [0..*]
ServiceRequest.priority	MS [0..1]
ServiceRequest.doNotPerform	MS [0..1]
ServiceRequest.code	MS [0..1]

ServiceRequest.encounter	MS [0..1]
ServiceRequest.occurrence[x]	MS [0..1]
ServiceRequest.asNeeded[x]	MS [0..1]
ServiceRequest.reasonReference	MS [0..*]
ServiceRequest.specimen	MS [0..*]
MedicationRequest.basedOn	MS [0..*]

DiagnosticReport.performer

Reference(<http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner>|<http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization>|<http://hl7.org/fhir/us/core/StructureDefinition/us-core-careteam>|<http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitionerrole>)

DiagnosticReport.result	Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-observation-lab)
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Diagnostic Report- Lab DiagnosticReport.text	NR
Location.identifier	NR
location.managingOrg	MS
patient.managingOrganization	MS
DiagnosticReport.performer	MS [0..*]
DiagnosticReport.media.link	NR
DiagnosticReport.media.comment	NR
MedicationRequest.substitution.allowed[x]	NR

MedicationRequest.substitution.reason	NR
---------------------------------------	----

Added Observation R4 Resource DiagnosticReport.presentedForm	NA NR
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NA MedicationRequest.requester	NA R[1..1]
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Changed To

NRT

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NRT only in Technical column

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Reference(US Core
Practitioner Profile | US
Core Organization
Profile | US Core Patient
Profile)

MS [0..*]

MS [0..*]

MS [0..*]

Removed from table

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Removed from table

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R [1..*]

[Link to Lab Result Observation tab](#)

R

Updated

MS [0..1]

R [1..1]

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MS [0..1]

MS [0..1]

added a note to FHIR

Definition column G

added a note to FHIR

Definition column G

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NR
R [1..1]

Constrain CQL to
triaged | in-progress |
onleave | finished
(left blank)

NR

NA

NA

NA

NA

R [1..1]

MS [0..*]

MS [0..1]

NA

R [1..1]

The following constraints are written into the CQL:

'in-progress', 'finished',
'triaged', 'onleave',
'entered-in-error'

MS [0..*]

<https://hl7.org/fhir/us/cor>

<https://hl7.org/fhir/R4/va>

<https://hl7.org/fhir/R4/va>

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<https://hl7.org/fhir/R4/va>

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R [1..1]

The following constraints are written into the CQL:

- "COVID_19 (Tests for SARS_CoV_2 Nucleic Acid)"
- "COVID_19 (Tests for SARS_CoV_2 Antigen)"
- "Influenza (Tests for influenza A or B virus Nucleic Acid)"
- "Influenza (Tests for influenza A or B virus Antigen)"
- "RSV (Tests for RSV Nucleic Acid)"
- "RSV (Tests for RSV Antigen)"

MS [0..1]

(could have a null if lab result/status is not yet finalized)

The following value set constraints are written into the CQL:

- "COVID_19 (Organism or Substance in Lab Results)"
- "Influenza (influenza A or B virus in Lab Results)"
- "RSV (Organism or Substance in Lab Results)"
- "LIVD SARS CoV2 Test Result Codes"

R [1..1]

The following value set constraints are written into the CQL:

- "Anakinra"
- "Baloxavir"
- "Bamlanivimab"
- "Baricitinib"
- "Bebtelovimab"
- "Casirivimab / Imdevimab"
- "Casirivimab"
- "COVID19 RxNorm Value Set for Tocilizumab"
- "Etesevimab"
- "Imdevimab"
- "Molnupiravir"
- "Nirmatrelvir / Ritonavir"
- "Oseltamivir"
- "Peramivir"
- "Remdesivir"
- "Sarilumab"
- "Sotrovimab"
- "Tofacitinib"
- "Zanamivir"

MS [0..1]

MS [0..*]

MS [0..*]

MS [0..1]

MS [0..1]

MS [0..*]

MS [0..1]

MS [0..*]

MS [0..1]

MS [0..*]

MS [0..*]

MS [0..*]

MS [0..*]

MS [0..*]

MS [0..1]

MS [0..*]

MS [0..1]

MS [0..1]

MS [0..1]

MS [0..*]

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MS [0..1]
MS [0..1]
MS [0..*]
MS [0..*]

NRT

Reference(US Core
Practitioner Profile | US
Core Organization
Profile)

Reference(US Core
Laboratory Result
Observation Profile)

NRT

NRT
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NA
NRT

NA
NR

[Back to TOC](#)

FHIR Path	Min	Max	Must Support?
DiagnosticReport	0	*	
DiagnosticReport.id	0	1	
DiagnosticReport.meta	0	1	

DiagnosticReport.implicitRules	0	1	
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DiagnosticReport.language	0	1	
DiagnosticReport.text	0	1	

DiagnosticReport.contained	0	*	
DiagnosticReport.extension	0	*	
DiagnosticReport.modifierExtension	0	*	
DiagnosticReport.identifier	0	*	
DiagnosticReport.basedOn	0	*	

DiagnosticReport.status	1	1	Y
DiagnosticReport.category	1	*	Y
DiagnosticReport.category:Laboratory Slice	1	1	Y
DiagnosticReport.category:LaboratorySlice.id	0	1	
DiagnosticReport.category:LaboratorySlice.id.extension	0	*	
DiagnosticReport.category:LaboratorySlice.coding	1	*	
DiagnosticReport.category:LaboratorySlice.coding.id	0	1	
DiagnosticReport.category:LaboratorySlice.coding.system	1	1	

DiagnosticReport.category:LaboratorySlice.coding.version	0	1	
DiagnosticReport.category:LaboratorySlice.coding.code	0	2	
DiagnosticReport.category:LaboratorySlice.coding.display	0	1	
DiagnosticReport.category:LaboratorySlice.coding.userSelected	0	1	
DiagnosticReport.code	1	1	Y
DiagnosticReport.subject	1	1	Y
DiagnosticReport.encounter	0	1	

DiagnosticReport.effective[x]	1	1	Y
DiagnosticReport.issued	1	1	Y
DiagnosticReport.performer	0	*	Y
DiagnosticReport.resultsInterpreter	0	*	
DiagnosticReport.specimen	0	*	

DiagnosticReport.result	0	*	Y
DiagnosticReport.imagingStudy	0	*	
DiagnosticReport.media	0	*	
DiagnosticReport.media.id	0	1	
DiagnosticReport.media.extension	0	*	

DiagnosticReport.media.modifierExtension	0	*	
DiagnosticReport.media.comment	0	1	
DiagnosticReport.media.link	1	1	
DiagnosticReport.conclusion	0	1	

DiagnosticReport.conclusionCode	0	*	
DiagnosticReport.presentedForm	0	*	

Data Type(s)	FHIR Short Description	FHIR Definition
	A Diagnostic report - a combination of request information, atomic results, images, interpretation, as well as formatted reports	The US Core Diagnostic Report Profile is based upon the core FHIR DiagnosticReport Resource and created to meet the 2015 Edition Common Clinical Data Set 'Laboratory test(s) and Laboratory value(s)/result(s)' requirements.
string	Logical id of this artifact	The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.
Meta	Metadata about the resource	The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.

uri	A set of rules under which this content was created	A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.
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code	Language of the resource content	The base language in which the resource is written.
Narrative	Text summary of the resource, for human interpretation	A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.

Resource	Contained, inline Resources	These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.
Extension	Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.
Extension	Extensions that cannot be ignored	May be used to represent additional information that is not part of the basic definition of the
Identifier	Business identifier for report	Identifiers assigned to this report by the performer or other systems
Reference (CarePlan, ImmunizationRecommendation, MedicationRequest, NutritionOrder, ServiceRequest)	What was requested	Details concerning a service requested.

code	registered partial preliminary final +	The status of the diagnostic report.
CodeableConcept	Service category	A code that classifies the clinical discipline, department or diagnostic service that created the report (e.g. cardiology, biochemistry, hematology, MRI). This is used for searching, sorting and display purposes.
CodeableConcept	Service category	A code that classifies the clinical discipline, department or diagnostic service that created the report (e.g. cardiology, biochemistry, hematology, MRI). This is used for searching, sorting and display purposes.
string	Unique id for inter-element referencing	
Extension	Additional content defined by implementations	
Coding	Code defined by a terminology system	
string	Unique id for inter-element referencing	
url	identity of the terminology system	

string	Version of the system - if relevant	
code	Symbol in syntax defined by the system	
string	Representation defined by the system	
boolean	If this coding was chosen directly by the user	
CodeableConcept	US Core Laboratory Report Order Code	The test, panel or battery that was ordered.
Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient)	The subject of the report - usually, but not always, the patient	The subject of the report. Usually, but not always, this is a patient. However, diagnostic services also perform analyses on specimens collected from a variety of other sources.
Reference(Encounter)	Health care event when test ordered	The healthcare event (e.g. a patient and healthcare provider interaction) which this DiagnosticReport is about.

dateTime Period	Specimen Collection Datetime or Period	The time or time-period the observed values are related to. When the subject of the report is a patient, this is usually either the time of the procedure or of specimen collection(s), but very often the source of the date/time is not known, only the date/time itself.
instant	DateTime this version was made	The date and time that this version of the report was made available to providers, typically after the report was reviewed and verified.
Reference(US Core Practitioner Profile US Core Organization Profile)	Responsible Diagnostic Service	The diagnostic service that is responsible for issuing the report.
Reference(Practiti oner PractitionerRole Organization CareTeam)	Primary result interpreter	The practitioner or organization that is responsible for the report's conclusions and interpretations.
Reference(Speci men)	Specimens this report is based on	Details about the specimens on which this diagnostic report is based.

Reference(US Core Laboratory Result Observation Profile)	Observations	[Observations](http://hl7.org/fhir/R4/observation.html) that are part of this diagnostic report.
Reference(ImagingStudy)	Reference to full details of imaging associated with the diagnostic report	One or more links to full details of any imaging performed during the diagnostic investigation. Typically, this is imaging performed by DICOM enabled modalities, but this is not required. A fully enabled PACS viewer can use this information to provide views of the source images.
BackboneElement	Key images associated with this report	A list of key images associated with this report. The images are generally created during the diagnostic process, and may be directly of the patient, or of treated specimens (i.e. slides of interest).
string	Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.
Extension	Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.

Extension	Extensions that cannot be ignored even if unrecognized	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>
string	Comment about the image (e.g. explanation)	A comment about the image. Typically, this is used to provide an explanation for why the image is included, or to draw the viewer's attention to important features.
Reference(Media)	Reference to the image source	Reference to the image source.
string	Clinical conclusion (interpretation) of test results	Concise and clinically contextualized summary conclusion (interpretation/impression) of the diagnostic report.

CodeableConcept	Codes for the clinical conclusion of test results	One or more codes that represent the summary conclusion (interpretation/impression) of the diagnostic report.
Attachment	Entire report as issued	Rich text representation of the entire result as issued by the diagnostic service. Multiple formats are allowed but they SHALL be semantically equivalent.

Comments	Binding Strength	Binding Description
<p>This is intended to capture a single report and is not suitable for use in displaying summary information that covers multiple reports. For example, this resource has not been designed for laboratory cumulative reporting formats nor detailed structured reports for sequencing.</p>		
<p>The only time that a resource does not have an id is when it is being submitted to the server using a create operation.</p>		

<p>Asserting this rule set restricts the content to be only understood by a limited set of trading partners. This inherently limits the usefulness of the data in the long term. However, the existing health eco-system is highly fractured, and not yet ready to define, collect, and exchange data in a generally computable sense. Wherever possible, implementers and/or specification writers should avoid using this element. Often, when used, the URL is a reference to an implementation guide that defines these special rules as part of it's narrative along with other profiles, value sets, etc.</p>		
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<p>Language is provided to support indexing and accessibility (typically, services such as text to speech use the language tag). The html language tag in the narrative applies to the narrative. The language tag on the resource may be used to specify the language of other presentations generated from the data in the resource. Not all the content has to be in the base language. The Resource.language should not be assumed to apply to the narrative automatically. If a language is specified, it should it also be specified on the div element in the html (see rules in HTML5 for information about the relationship between xml:lang and the html lang attribute).</p>	<p>preferred</p>	<p>CommonLanguages Max Binding: All Languages</p>
<p>Contained resources do not have narrative. Resources that are not contained SHOULD have a narrative. In some cases, a resource may only have text with little or no additional discrete data (as long as all minOccurs=1 elements are satisfied). This may be necessary for data from legacy systems where information is captured as a "text blob" or where text is additionally entered raw or narrated and encoded information is added later.</p>		

<p>This should never be done when the content can be identified properly, as once identification is lost, it is extremely difficult (and context dependent) to restore it again. Contained resources may have profiles and tags in their meta elements, but SHALL NOT have security labels.</p>		
<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>		
<p>There can be no stigma associated with the use of extensions by any</p>		
<p>Usually assigned by the Information System of the diagnostic service provider</p>		
<p>Note: Usually there is one test request for each result, however in some circumstances multiple test requests may be represented using a single test result resource. Note that there are also cases where one request leads to multiple reports.</p>		

	required	
Multiple categories are allowed using various categorization schemes. The level of granularity is defined by the category concepts in the value set. More fine-grained filtering can be performed using the metadata and/or terminology hierarchy in DiagnosticReport.code.	example	Codes for diagnostic service sections.
Multiple categories are allowed using various categorization schemes. The level of granularity is defined by the category concepts in the value set. More fine-grained filtering can be performed using the metadata and/or terminology hierarchy in DiagnosticReport.code.	example	Required Pattern: At least the following
	Complex	Fixed Value: (complex)
	Fixed Value	diagnostiServiceSectionID

	Fixed Value	
UsageNote= The typical patterns for codes are: 1) a LOINC code either as a translation from a "local" code or as a primary code, or 2) a local code only if no suitable LOINC exists, or 3) both the local and the LOINC translation. Systems SHALL be capable of sending the local code if one exists.	extensible	US Core Diagnostic Report Laboratory Codes (LOINC codes)
This will typically be the encounter the event occurred within, but some events may be initiated prior to or after the official completion of an encounter but still be tied to the context of the encounter (e.g. pre-admission laboratory tests).		

<p>If the diagnostic procedure was performed on the patient, this is the time it was performed. If there are specimens, the diagnostically relevant time can be derived from the specimen collection times, but the specimen information is not always available, and the exact relationship between the specimens and the diagnostically relevant time is not always automatic.</p>		
<p>May be different from the update time of the resource itself, because that is the status of the record (potentially a secondary copy), not the actual release time of the report.</p>		
<p>This is not necessarily the source of the atomic data items or the entity that interpreted the results. It is the entity that takes responsibility for the clinical report.</p>		
<p>Might not be the same entity that takes responsibility for the clinical report.</p>		
<p>If the specimen is sufficiently specified with a code in the test result name, then this additional data may be redundant. If there are multiple specimens, these may be represented per observation or group.</p>		

<p>Observations can contain observations.</p>		
<p>ImagingStudy and the image element are somewhat overlapping - typically, the list of image references in the image element will also be found in one of the imaging study resources. However, each caters to different types of displays for different types of purposes. Neither, either, or both may be provided.</p>		
<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>		

<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>		
<p>The comment should be displayed with the image. It would be common for the report to include additional discussion of the image contents in other sections such as the conclusion.</p>		

	example	SNOMEDCTClinicalFindings
"application/pdf" is recommended as the most reliable and interoperable in this context.		

FHIR Binding Value Set	RPS
	MS [0..*]
	R[1..1]
	NRT

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http://hl7.org/fhir/Value	NRT
	NRT

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	NR

http://hl7.org/fhir/R4/ValueSet	R [1..1] The following constraints are written into the CQL: 'final','registered','preliminary','partial'
http://hl7.org/fhir/R4/ValueSet	R [1..*]
	R [1..1]
	NRT
	NRT
	NR
	NRT
https://terminology.hl7.org/5.2.0/CodeSystem-v2-0074.html	NR

	NR
	NR
	NR
	NR
https://www.hl7.org/fhir	R [1..1]
	R [1..1]
	MS [0..1]

	R [1..1]
	R [1..1]
	NR
	NR
	MS [0..*]

	MS [0..*]
	NR
	NRT
	NRT
	NRT

	NRT
	NRT
	NRT
	MS [0..1]

http://hl7.org/fhir/ValueMS [0..*]	
	NRT

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FHIR Path	Min	Max	Must Support?	Data Type(s)
Encounter	0	*		Encounter
Encounter.id	0	1		string
Encounter.meta	0	1		Meta
Encounter.implicitRules	0	1		uri
Encounter.language	0	1		code
Encounter.text	0	1		Narrative

Encounter.contained	0	*		Resource
Encounter.extension	0	*		Extension
Encounter.modifierExtension	0	*		Extension
Encounter.identifier	0	*	Y	Identifier

Encounter.identifier.id	0	1		string
Encounter.identifier.extension	0	*		Extension
Encounter.identifier.use	0	1		code
Encounter.identifier.type	0	1		CodeableCo ncept
Encounter.identifier.system	1	1	Y	uri
Encounter.identifier.value	1	1	Y	string

Encounter.identifier.period	0	1		Period
Encounter.identifier.assigner	0	1		Reference(Organization)
Encounter.status	1	1	Y	code
Encounter.statusHistory	0	*		BackboneElement
Encounter.statusHistory.id	0	1		string

Encounter.statusHistory.extension	0	*		Extension
Encounter.statusHistory.modifierExtension	0	*		Extension
Encounter.statusHistory.status	1	1		code
Encounter.statusHistory.period	1	1		Period

Encounter.class	1	1	Y	Coding
Encounter.classHistory	0	*		BackboneElement
Encounter.classHistory.id	0	1		string
Encounter.classHistory.extension	0	*		Extension

Encounter.classHistory.modifierExtension	0	*		Extension
Encounter.classHistory.class	1	1		Coding
Encounter.classHistory.period	1	1		Period

Encounter.type	1	*	Y	CodeableCo ncept
Encounter.serviceType	0	1		CodeableCo ncept
Encounter.priority	0	1		CodeableCo ncept
Encounter.subject	1	1	Y	Reference(U S Core Patient Profile)
Encounter.episodeOfCare	0	*		Reference(E pisodeOfCar e)
Encounter.basedOn	0	*		Reference(S erviceReque st)

Encounter.participant	0	*	Y	BackboneElement
Encounter.participant.id	0	1		string
Encounter.participant.extension	0	*		Extension

Encounter.participant.modifierExtension	0	*		Extension
Encounter.participant.type	0	*	Y	CodeableConcept
Encounter.participant.period	0	1	Y	Period
Encounter.participant.individual	0	1	Y	Reference(US Core Practitioner Profile)

Encounter.appointment	0	*		Reference(A ppointment)
Encounter.period	0	1	Y	Period
Encounter.length	0	1		Duration
Encounter.reasonCode	0	*	Y	CodeableCo ncept
Encounter.reasonReference	0	*	Y	Reference(C ondition Procedure Observation Immunizatio nRecommen dation)
Encounter.diagnosis	0	*		BackboneEle ment
Encounter.diagnosis.id	0	1		string

Encounter.diagnosis.extension	0	*		Extension
Encounter.diagnosis.modifierExtension	0	*		Extension
Encounter.diagnosis.condition	1	1		Reference(Condition Procedure)

Encounter.diagnosis.use	0	1		CodeableConcept
Encounter.diagnosis.rank	0	1		positiveInt
Encounter.account	0	*		Reference(Account)
Encounter.hospitalization	0	1	Y	BackboneElement
Encounter.hospitalization.id	0	1		string
Encounter.hospitalization.extension	0	*		Extension

Encounter.hospitalization.modifierExtension	0	*		Extension
Encounter.hospitalization.preAdmissionIdentifier	0	1		Identifier
Encounter.hospitalization.origin	0	1		Reference(Location Organization)
Encounter.hospitalization.admitSource	0	1		CodeableConcept

Encounter.hospitalization.reAdmission	0	1		CodeableConcept
Encounter.hospitalization.dietPreference	0	*		CodeableConcept
Encounter.hospitalization.specialCourtesy	0	*		CodeableConcept
Encounter.hospitalization.specialArrangement	0	*		CodeableConcept
Encounter.hospitalization.destination	0	1		Reference(Location Organization)
Encounter.hospitalization.dischargeDisposition	0	1	Y	CodeableConcept

Encounter.location	0	*	Y	BackboneElement
Encounter.location.id	0	1		string
Encounter.location.extension	0	*		Extension

Encounter.location.modifierExtension	0	*		Extension
Encounter.location.location	1	1	Y	Reference(Location)
Encounter.location.status	0	1		code
Encounter.location.physicalType	0	1		CodeableConcept

Encounter.location.period	0	1		Period
Encounter.serviceProvider	0	1	Y	Reference(Organization)
Encounter.partOf	0	1		Reference(Encounter)

FHIR Short Description	FHIR Definition	Binding Strength
An interaction during which services are provided to the patient	This is basic constraint on Encounter for use in US Core resources.	
Logical id of this artifact	The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.	
Metadata about the resource	The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.	
A set of rules under which this content was created	A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.	
Language of the resource content	The base language in which the resource is written.	Preferred Max Binding
Text summary of the resource, for human interpretation	A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.	

Contained, inline Resources	These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
Extensions that cannot be ignored	<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
Identifier(s) by which this	Identifier(s) by which this encounter is known.	

Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
usual official temp secondary old (If known)	The purpose of this identifier.	required
Description of identifier	A coded type for the identifier that can be used to determine which identifier to use for a specific purpose.	extensible
The namespace for the identifier value	Establishes the namespace for the value - that is, a URL that describes a set values that are unique.	
The value that is unique	The portion of the identifier typically relevant to the user and which is unique within the context of the system.	

Time period when id is/was valid for use	Time period during which identifier is/was valid for use.	
Organization that issued id (may be just text)	Organization that issued/manages the identifier.	
planned arrived triaged in-progress onleave finished cancelled +	planned arrived triaged in-progress onleave finished cancelled +.	required
List of past encounter statuses	The status history permits the encounter resource to contain the status history without needing to read through the historical versions of the resource, or even have the server store them.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	

Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
Extensions that cannot be ignored even if unrecognized	May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.	
planned arrived triaged in-progress onleave finished cancelled +	planned arrived triaged in-progress onleave finished cancelled +.	required
The time that the episode was in the specified status	The time that the episode was in the specified status.	

Classification of patient encounter	Concepts representing classification of patient encounter such as ambulatory (outpatient), inpatient, emergency, home health or others due to local variations.	extensible
List of past encounter classes	The class history permits the tracking of the encounters transitions without needing to go through the resource history. This would be used for a case where an admission starts of as an emergency encounter, then transitions into an inpatient scenario. Doing this and not restarting a new encounter ensures that any lab/diagnostic results can more easily follow the patient and not require re-processing and not get lost or cancelled during a kind of discharge from emergency to inpatient.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>inpatient outpatient ambulatory emergency +</p>	<p>inpatient outpatient ambulatory emergency +.</p>	<p>extensible</p>
<p>The time that the episode was in the specified class</p>	<p>The time that the episode was in the specified class.</p>	

Specific type of encounter	Specific type of encounter (e.g. e-mail consultation, surgical day-care, skilled nursing, rehabilitation).	extensible
Specific type of service	Broad categorization of the service that is to be provided (e.g. cardiology).	example
Indicates the urgency of the encounter	Indicates the urgency of the encounter.	example
The patient or group present at the encounter	The patient or group present at the encounter.	
Episode(s) of care that this encounter should be recorded against	Where a specific encounter should be classified as a part of a specific episode(s) of care this field should be used. This association can facilitate grouping of related encounters together for a specific purpose, such as government reporting, issue tracking, association via a common problem. The association is recorded on the encounter as these are typically created after the episode of care and grouped on entry rather than editing the episode of care to append another encounter to it (the episode of care could span years).	
The ServiceRequest that initiated this encounter	The request this encounter satisfies (e.g. incoming referral or procedure request).	

List of participants involved in the encounter	The list of people responsible for providing the service.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Role of participant in encounter</p>	<p>Role of participant in encounter.</p>	<p>extensible</p>
<p>Period of time during the encounter that the participant participated</p>	<p>The period of time that the specified participant participated in the encounter. These can overlap or be sub-sets of the overall encounter's period.</p>	
<p>Persons involved in the encounter other than the patient</p>	<p>Persons involved in the encounter other than the patient.</p>	

The appointment that scheduled this encounter	The appointment that scheduled this encounter.	
The start and end time of the encounter	The start and end time of the encounter.	
Quantity of time the encounter lasted (less time absent)	Quantity of time the encounter lasted. This excludes the time during leaves of absence.	
Coded reason the encounter takes place	Reason the encounter takes place, expressed as a code. For admissions, this can be used for a coded admission diagnosis.	preferred
Reason the encounter takes place (reference)	Reason the encounter takes place, expressed as a code. For admissions, this can be used for a coded admission diagnosis.	
The list of diagnosis relevant to this encounter	The list of diagnosis relevant to this encounter.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	

Additional content defined by implementations	<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	
Extensions that cannot be ignored even if unrecognized	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
The diagnosis or procedure relevant to the encounter	<p>Reason the encounter takes place, as specified using information from another resource. For admissions, this is the admission diagnosis. The indication will typically be a Condition (with other resources referenced in the evidence.detail), or a Procedure.</p>	

Role that this diagnosis has within the encounter (e.g. admission, billing, discharge ...)	Role that this diagnosis has within the encounter (e.g. admission, billing, discharge ...).	preferred
Ranking of the diagnosis (for each role type)	Ranking of the diagnosis (for each role type).	
The set of accounts that may be used for billing for this Encounter	The set of accounts that may be used for billing for this Encounter.	
Details about the admission to a healthcare service	Details about the admission to a healthcare service.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Pre-admission identifier</p>	<p>Pre-admission identifier.</p>	
<p>The location/organization from which the patient came before admission</p>	<p>The location/organization from which the patient came before admission.</p>	
<p>From where patient was admitted (physician referral, transfer)</p>	<p>From where patient was admitted (physician referral, transfer).</p>	<p>preferred</p>

The type of hospital re-admission that has occurred (if any). If the value is absent, then this is not identified as a readmission	Whether this hospitalization is a readmission and why if known.	example
Diet preferences reported by the patient	Diet preferences reported by the patient.	example
Special courtesies (VIP, board member)	Special courtesies (VIP, board member).	preferred
Wheelchair, translator, stretcher, etc.	Any special requests that have been made for this hospitalization encounter, such as the provision of specific equipment or other things.	preferred
Location/organization to which the patient is discharged	Location/organization to which the patient is discharged.	
Category or kind of location after discharge	Category or kind of location after discharge.	example

List of locations where the patient has been	List of locations where the patient has been during this encounter.	
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Location the encounter takes place</p>	<p>The location where the encounter takes place.</p>	
<p>planned active reserved completed</p>	<p>The status of the participants' presence at the specified location during the period specified. If the participant is no longer at the location, then the period will have an end date/time.</p>	<p>required</p>
<p>The physical type of the location (usually the level in the location hierachy - bed room ward etc.)</p>	<p>This will be used to specify the required levels (bed/ward/room/etc.) desired to be recorded to simplify either messaging or query.</p>	<p>example</p>

Time period during which the patient was present at the location	Time period during which the patient was present at the location.	
The organization (facility) responsible for this encounter	The organization that is primarily responsible for this Encounter's services. This MAY be the same as the organization on the Patient record, however it could be different, such as if the actor	
Another Encounter this encounter is part of	Another Encounter of which this encounter is a part of (administratively or in time).	

Binding Description	FHIR Binding Value Set	RPS
		R [1..*]
		R [1..1]
		NRT
		NRT
CommonLanguages AllLanguages	http://hl7.org/fhir/ValueSet	NRT
		NRT

		NRT
		NRT
		NRT
		R [1..*]

		NRT
		NRT
IdentifierUse	http://hl7.org/fhir/Value	MS [0..1]
IdentifierType	http://hl7.org/fhir/Value	MS [0..1]
		R[1..1]
		R [1..1]

		MS [0..1]
		NRT
EncounterStatus	https://hl7.org/fhir/R4/v	R [1..1] The following constraints are written into the CQL: 'in-progress', 'finished', 'triaged', 'onleave', 'entered-in-error'
		NR
		NRT

		NRT
		NRT
EncounterStatus	http://hl7.org/fhir/Value	R [1..1]
		R [1..1]

ActEncounterCode	http://hl7.org/fhir/R4/v3	R [1..1] The following constraints are written into the CQL: 'inpatient acute', 'inpatient encounter', 'observation encounter', 'inpatient non-acute', 'short stay'
		MS [0..*]
		NRT
		NRT

		NRT
ActEncounterCode	http://terminology.hl7.org	R [1..1]
		R [1..1]

USCoreEncounterType	https://hl7.org/fhir/us/core	R [1..*] The following constraints are written into the CQL: "Observation Services": 'http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1111.143' "Encounter Inpatient": 'http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.666.5.307'
ServiceType	http://hl7.org/fhir/ValueSet	NR
ActPriority	http://terminology.hl7.org	NR
		R [1..1]
		NRT
		NRT

		NR
		NRT
		NRT

		NRT
ParticipantType	http://hl7.org/fhir/Value	NR
		NR
		NR

		NRT
		R[1..1]
		NR
EncounterReasonCodes	http://hl7.org/fhir/Value	MS [0..*]
		NR
		NR
		NRT

		NRT
		NRT
		NR

DiagnosisRole	https://hl7.org/fhir/R4/v	NR
		NR
		NR
		MS [0..1]
		NRT
		NRT

		NRT
		NR
		NR
AdmitSource	https://hl7.org/fhir/R4/v	MS [0..1]

HI7VSReAdmissionIndicator	http://terminology.hl7.org/ValueSet/vs-753	MS [0..1]
Diet	http://hl7.org/fhir/ValueSet/diet	NR
SpecialCourtesy	http://hl7.org/fhir/ValueSet/special-courtesy	NR
SpecialArrangements	http://hl7.org/fhir/ValueSet/special-arrangements	NR
		NR
DischargeDisposition	http://hl7.org/fhir/R4/ValueSet/discharge-disposition	MS [0..1] CQL is constrained to codes within the HL7 "Discharge Disposition" value set.

		<p>R [1..*]</p> <p>The following constraints are written into the CQL: Inpatient, Emergency, and Observation Locations 2.16.840.1.113762.1.4.1046.265</p>
		NRT
		NRT

		NRT
		R [1..1]
EncounterLocationStatus	http://hl7.org/fhir/Value	MS [0..1]
LocationType	http://hl7.org/fhir/R4/va	NR

		R [1..1]
		NRT
		NR

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FHIR Path	Min	Max
Observation	0	*
Observation.id	0	1
Observation.meta	0	1
Observation.implicitRules	0	1
Observation.language	0	1
Observation.text	0	1
Observation.contained	0	*

Observation.extension	0	*
Observation.modifierExtension	0	*
Observation.identifier	0	*
Observation.basedOn	0	*

Observation.partOf	0	*
Observation.status	1	1
Observation.category	1	*
Observation.category:Laboratory	1	1
Observation.category:Laboratory.id	0	1
Observation.category:Laboratory.extension	0	*
Observation.category:Laboratory.coding	1	*
Observation.category:Laboratory.coding.id	0	1

Observation.category:Laboratory.coding.extension	0	*
Observation.category:Laboratory.coding.system	1	1
Observation.category:Laboratory.coding.version	0	1
Observation.category:Laboratory.coding.code	1	1
Observation.category:Laboratory.coding.display	0	1
Observation.category:Laboratory.coding.userSelected	0	1

Observation.category:Laboratory.text	0	1
Observation.code	1	1
Observation.subject	1	1
Observation.focus	0	*
Observation.encounter	0	1

Observation.effective[x]	0	1
Observation.issued	0	1
Observation.performer	0	*
Observation.value[x]	0	1
Observation.dataAbsentReason	0	1
Observation.interpretation	0	*
Observation.note	0	*
Observation.bodySite	0	1
Observation.method	0	1
Observation.specimen	0	1
Observation.device	0	1

Observation.referenceRange	0	*
Observation.referenceRange.id	0	1
Observation.referenceRange.extension	0	*

Observation.referenceRange.modifierExtension	0	*
Observation.referenceRange.low	0	1
Observation.referenceRange.high	0	1
Observation.referenceRange.type	0	1

Observation.referenceRange.appliesTo	0	*
Observation.referenceRange.age	0	1
Observation.referenceRange.text	0	1
Observation.hasMember	0	*
Observation.derivedFrom	0	*
Observation.component	0	*

Observation.component.id	0	1
Observation.component.extension	0	*
Observation.component.modifierExtension	0	*
Observation.component.code	1	1

Observation.component.value[x]	0	1
Observation.component.dataAbsentReason	0	1
Observation.component.interpretation	0	*
Observation.component.referenceRange	0	*

Must Support?	Data Type(s)	FHIR Short Description
	Observation	Measurements and simple assertions
	string	Logical id of this artifact
	Meta	Metadata about the resource
	uri	A set of rules under which this content was created
	code	Language of the resource content
	Narrative	Text summary of the resource, for human interpretation
	Resource	Contained, inline Resources

	Extension	Additional content defined by implementations
	Extension	Extensions that cannot be ignored
	Identifier	Business Identifier for observation
	Reference(CarePlan DeviceRequest ImmunizationRecommendation MedicationRequest NutritionOrder ServiceRequest)	Fulfills plan, proposal or order

	Reference(MedicationAdministration MedicationDispense MedicationStatement Procedure Immunization ImagingStudy)	Part of referenced event
Y	code	registered preliminary final amended +
Y	Slice Definition	Classification of type of observation Slice: Unordered, Open by pattern:\$this
Y	CodeableConcept	Classification of type of observation
	string	Unique id for inter-element referencing
	Extension	Additional content defined by implementations
Y	Coding	Code defined by a terminology system
	string	Unique id for inter-element referencing

	Extension	Additional content defined by implementations
Y	uri	Identity of the terminology system Fixed Value: http://terminology.hl7.org/CodeSystem/observation-category
	string	Version of the system - if relevant
Y	code	Symbol in syntax defined by the system Fixed Value: laboratory
	string	Representation defined by the system
	boolean	If this coding was chosen directly by the user

	string	Plain text representation of the concept
Y	CodeableConcept	Laboratory Test Name
Y	Reference(US Core Patient Profile)	Who and/or what the observation is about
	Reference(Resource)	What the observation is about, when it is not about the subject of record
	Reference(Encounter)	Healthcare event during which this observation is made

Y	dateTime Period	Clinically relevant time/time-period for observation us-core-1: Datetime must be at least to day.
	instant	Date/Time this version was made available
	Reference(Practitioner PractitionerRole Organization CareTeam Patient RelatedPerson)	Who is responsible for the observation
Y	Quantity CodeableConcept string boolean integer Range Ratio SampledData time dateTime Period	Result Value
Y	CodeableConcept	Why the result is missing
	CodeableConcept	High, low, normal, etc.
	Annotation	Comments about the observation
	CodeableConcept	Observed body part
	CodeableConcept	How it was done
	Reference(Specimen)	Specimen used for this observation
	Reference(Device DeviceMetric)	(Measurement) Device

	BackboneElement	Provides guide for interpretation
	string	Unique id for inter-element referencing
	Extension	Additional content defined by implementations

	Extension	Extensions that cannot be ignored even if unrecognized
	SimpleQuantity	Low Range, if relevant
	SimpleQuantity	High Range, if relevant
	CodeableConcept	Reference range qualifier

	CodeableConcept	Reference range population
	Range	Applicable age range, if relevant
	string	Text based reference range in an observation
	Reference(Observation QuestionnaireResponse MolecularSequence)	Related resource that belongs to the Observation group
	Reference(DocumentReference ImagingStudy Media QuestionnaireResponse Observation MolecularSequence)	Related measurements the observation is made from
	BackboneElement	Component results

	string	Unique id for inter-element referencing
	Extension	Additional content defined by implementations
	Extension	Extensions that cannot be ignored even if unrecognized
	CodeableConcept	Type of component observation (code / type)

	Quantity CodeableConcept string boolean integer Range Ratio SampledData time dateTime Period	Actual component result
	CodeableConcept	Why the component result is missing
	CodeableConcept	High, low, normal, etc.
		Provides guide for interpretation of component result

FHIR Definition	Binding Strength	Binding Description (Value Set Name)
This profile is created to meet the 2015 Edition Common Clinical Data Set 'Laboratory test(s) and Laboratory value(s)/result(s)' requirements.		
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.		
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.		
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.		
The base language in which the resource is written.	preferred	CommonLanguages
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.		
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.		

<p>May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>A unique identifier assigned to this observation.</p>		
<p>A plan, proposal or order that is fulfilled in whole or in part by this event. For example, a MedicationRequest may require a patient to have laboratory test performed before it is dispensed.</p>		

A larger event of which this particular Observation is a component or step. For example, an observation as part of a procedure.		
The status of the result value.	required	ObservationStatus
A code that classifies the general type of observation being made.	preferred	ObservationCategoryCodes
A code that classifies the general type of observation being made.	preferred	ObservationCategoryCodes
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.		
A reference to a code defined by a terminology system.		
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		

<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>The identification of the code system that defines the meaning of the symbol in the code.</p>		
<p>The version of the code system which was used when choosing this code. Note that a well-maintained code system does not need the version reported, because the meaning of codes is consistent across versions. However this cannot consistently be assured, and when the meaning is not guaranteed to be consistent, the version SHOULD be exchanged.</p>		
<p>A symbol in syntax defined by the system. The symbol may be a predefined code or an expression in a syntax defined by the coding system (e.g. post-coordination).</p>		
<p>A representation of the meaning of the code in the system, following the rules of the system.</p>		
<p>Indicates that this coding was chosen by a user directly - e.g. off a pick list of available items (codes or displays).</p>		

<p>A human language representation of the concept as seen/selected/uttered by the user who entered the data and/or which represents the intended meaning of the user.</p>		
<p>The test that was performed. A LOINC **SHALL** be used if the concept is present in LOINC.</p>	<p>extensible</p>	<p>LOINCCodes</p>
<p>The patient, or group of patients, location, or device this observation is about and into whose record the observation is placed. If the actual focus of the observation is different from the subject (or a sample of, part, or region of the subject), the `focus` element or the `code` itself specifies the actual focus of the observation.</p>		
<p>The actual focus of an observation when it is not the patient of record representing something or someone associated with the patient such as a spouse, parent, fetus, or donor. For example, fetus observations in a mother's record. The focus of an observation could also be an existing condition, an intervention, the subject's diet, another observation of the subject, or a body structure such as tumor or implanted device. An example use case would be using the Observation resource to capture whether the mother is trained to change her child's tracheostomy tube. In this example, the child is the patient of record and the mother is the focus.</p>		
<p>The healthcare event (e.g. a patient and healthcare provider interaction) during which this observation is made.</p>		

For lab tests this is the specimen collection date. For Ask at Order Entry Questions (AOE)'s this is the date the question was asked.		
The date and time this version of the observation was made available to providers, typically after the results have been reviewed and verified.		
Who was responsible for asserting the observed value as "true".		
The Laboratory result value. If a coded value, the valueCodeableConcept.code **SHOULD** be selected from [SNOMED CT](http://hl7.org/fhir/ValueSet/uslab-obs-codedresults) if the concept exists. If a numeric value, valueQuantity.code **SHALL** be selected from [UCUM] (http://unitsofmeasure.org). A FHIR [UCUM Codes value set](http://hl7.org/fhir/STU3/valueset-ucum-units.html) that defines all UCUM codes is in the FHIR specification.		
Provides a reason why the expected value in the element Observation.value[x] is missing.	extensible	DataAbsentReason
A categorical assessment of an observation value. For example, high, low, normal.	extensible	ObservationInterpretationCodes
Comments about the observation or the results.		
Indicates the site on the subject's body where the observation was made (i.e. the target site).	example	SNOMEDCTBodyStructures
Indicates the mechanism used to perform the observation.	example	ObservationMethods
The specimen that was used when this observation was made.		
The device used to generate the observation data.		

<p>Guidance on how to interpret the value by comparison to a normal or recommended range. Multiple reference ranges are interpreted as an "OR". In other words, to represent two distinct target populations, two `referenceRange` elements would be used.</p>		
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>The value of the low bound of the reference range. The low bound of the reference range endpoint is inclusive of the value (e.g. reference range is ≥ 5 - ≤ 9). If the low bound is omitted, it is assumed to be meaningless (e.g. reference range is ≤ 2.3).</p>		
<p>The value of the high bound of the reference range. The high bound of the reference range endpoint is inclusive of the value (e.g. reference range is ≥ 5 - ≤ 9). If the high bound is omitted, it is assumed to be meaningless (e.g. reference range is ≥ 2.3).</p>		
<p>Codes to indicate the what part of the targeted reference population it applies to. For example, the normal or therapeutic range.</p>	<p>preferred</p>	<p>ObservationReferenceRangeMeaningCodes</p>

Codes to indicate the target population this reference range applies to. For example, a reference range may be based on the normal population or a particular sex or race. Multiple `appliesTo` are interpreted as an "AND" of the target populations. For example, to represent a target population of African American females, both a code of female and a code for African American would be used.	example	ObservationReferenceRangeAppliesToCodes
The age at which this reference range is applicable. This is a neonatal age (e.g. number of weeks at term) if the meaning says so.		
Text based reference range in an observation which may be used when a quantitative range is not appropriate for an observation. An example would be a reference value of "Negative" or a list or table of "normals".		
This observation is a group observation (e.g. a battery, a panel of tests, a set of vital sign measurements) that includes the target as a member of the group.		
The target resource that represents a measurement from which this observation value is derived. For example, a calculated anion gap or a fetal measurement based on an ultrasound image.		
Some observations have multiple component observations. These component observations are expressed as separate code value pairs that share the same attributes. Examples include systolic and diastolic component observations for blood pressure measurement and multiple component observations for genetics observations.		

<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>Describes what was observed. Sometimes this is called the observation "code".</p>	<p>example</p>	<p>LOINCCodes</p>

The information determined as a result of making the observation, if the information has a simple value.		
Provides a reason why the expected value in the element Observation.component.value[x] is missing.	extensible	DataAbsentReason
A categorical assessment of an observation value. For example, high, low, normal.	extensible	ObservationInterpretationCodes
Guidance on how to interpret the value by comparison to a normal or recommended range.		

Binding Value Set	RPS
	MS [0..*]
	R [1..1]
	NRT
	NRT
http://hl7.org/fhir/ValueSet/language	NRT
	NRT
	NRT

	NRT
	NRT
	NRT
	NR

	NR
http://hl7.org/fhir/R4/ValueSet/observed	R[1..1]
https://hl7.org/fhir/R4/valueset-observed	R [1..*]
http://hl7.org/fhir/ValueSet/observed	R [1..1]
	NRT
	NRT
	NR
	NR

	NR
http://hl7.org/fhir/ValueSet/observation	R [1..1]
	R [1..1]
	NR
	MS [0..1]

	R [1..1]
	MS [0..1]
	NR
	MS [0..1]
http://hl7.org/fhir/R4/ValueSet/data	NR
https://hl7.org/fhir/R4/valueset-obs	MS [0..*]
	NR
http://hl7.org/fhir/ValueSet/body-site	MS [0..1]
http://hl7.org/fhir/ValueSet/observation	MS [0..1]
	MS [0..1]
	NR

	NR
	NRT
	NRT

	NRT
	NR
	NR
http://hl7.org/fhir/ValueSet/referen	NR

http://hl7.org/fhir/ValueSet/referen	NR
	NR
	NR
	MS [0..*]
	MS [0..*]
	MS [0..*]

	NRT
	NRT
	NRT
http://hl7.org/fhir/R4/valueset-obs	R [1..1]

	MS [0..1]
http://hl7.org/fhir/R4/ValueSet/data	NR
https://hl7.org/fhir/R4/valueset-obs	MS [0..*]
	NR

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FHIR Path	Min	Max	Must Support
Location	0	*	
Location.id	0	1	Y
Location.meta	0	1	
Location.implicitRules	0	1	
Location.language	0	1	
Location.text	0	1	
Location.contained	0	*	
Location.extension	0	*	

Location.modifierExtension	0	*	
Location.identifier	0	*	
Location.status	0	1	Y
Location.operationalStatus	0	1	
Location.name	1	1	Y
Location.alias	0	*	

Location.description	0	1	
Location.mode	0	1	
Location.type	0	*	
Location.telecom	0	*	Y
Location.address	0	1	Y
Location.address.id	0	1	

Location.address.extension	0	*	
Location.address.use	0	1	
Location.address.type	0	1	
Location.address.text	0	1	
Location.address.line	0	*	Y
Location.address.city	0	1	Y
Location.address.district	0	1	
Location.address.state	0	1	Y
Location.address.postalCode	0	1	Y
Location.address.country	0	1	
Location.address.period	0	1	
Location.physicalType	0	1	
Location.position	0	1	

Location.position.id	0	1	
Location.position.extension	0	*	
Location.position.modifierExtension	0	*	
Location.position.longitude	1	1	
Location.position.latitude	1	1	
Location.position.altitude	0	1	
Location.managingOrganization	0	1	Y

Location.partOf	0	1	
Location.hoursOfOperation	0	*	
Location.hoursOfOperation.id	0	1	
Location.hoursOfOperation.extension	0	*	
Location.hoursOfOperation.modifierExtension	0	*	
Location.hoursOfOperation.daysOfWeek	0	*	
Location.hoursOfOperation.allDay	0	1	
Location.hoursOfOperation.openingTime	0	1	
Location.hoursOfOperation.closingTime	0	1	
Location.availabilityExceptions	0	1	

Location.endpoint	0	*	
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Data Type(s)	FHIR Short Description
	Details and position information for a physical place
string	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created
code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored
Identifier	Unique code or number identifying the location to its users
code	active suspended inactive
Coding	The operational status of the location (typically only for a bed/room)
string	Name of the location as used by humans
string	A list of alternate names that the location is known as, or was known as, in the past

string	Additional details about the location that could be displayed as further information to identify the location beyond its name
code	instance kind
CodeableConcept	Type of function performed
ContactPoint	Contact details of the location
Address	Physical location
string	Unique id for inter-element referencing

Extension	Additional content defined by implementations
code	home work temp old billing - purpose of this address
code	postal physical both
string	Text representation of the address
string	Street name, number, direction & P.O. Box etc.
string	Name of city, town etc.
string	District name (aka county)
string	Sub-unit of country (abbreviations ok)
string	US Zip Codes
string	Country (e.g. can be ISO 3166 2 or 3 letter code)
Period	Time period when address was/is in use
CodeableConcept	Physical form of the location
BackboneElement	The absolute geographic location

string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized
decimal	Longitude with WGS84 datum
decimal	Latitude with WGS84 datum
decimal	Altitude with WGS84 datum
Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization)	Organization responsible for provisioning and upkeep

Reference(Location)	Another Location this one is physically a part of
BackboneElement	What days/times during a week is this location usually open
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized
code	mon tue wed thu fri sat sun
boolean	The Location is open all day
time	Time that the Location opens
time	Time that the Location closes
string	Description of availability exceptions

Reference(Endpoint)	Technical endpoints providing access to services operated for the location
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FHIR Definition	Binding Strength
Details and position information for a physical place where services are provided and resources and participants may be stored, found, contained, or accommodated.	
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.	
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.	
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.	
The base language in which the resource is written.	preferred
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.	
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.	
May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Unique code or number identifying the location to its users.</p>	
<p>The status property covers the general availability of the resource, not the current value which may be covered by the operationStatus, or by a schedule/slots if they are configured for the location.</p>	required
<p>The operational status covers operation values most relevant to beds (but can also apply to rooms/units/chairs/etc. such as an isolation unit/dialysis chair). This typically covers concepts such as contamination, housekeeping, and other activities like maintenance.</p>	preferred
<p>Name of the location as used by humans. Does not need to be unique.</p>	
<p>A list of alternate names that the location is known as, or was known as, in the past.</p>	

<p>Description of the Location, which helps in finding or referencing the place.</p>	
<p>Indicates whether a resource instance represents a specific location or a class of locations.</p>	<p>required</p>
<p>Indicates the type of function performed at the location.</p>	<p>extensible</p>
<p>The contact details of communication devices available at the location. This can include phone numbers, fax numbers, mobile numbers, email addresses and web sites.</p>	
<p>Physical location.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	

May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
The purpose of this address.	required
Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	required
Specifies the entire address as it should be displayed e.g. on a postal label. This may be provided instead of or as well as the specific parts.	
This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.	
The name of the city, town, suburb, village or other community or delivery center.	
The name of the administrative area (county).	
Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (e.g. US 2 letter state codes).	extensible
A postal code designating a region defined by the postal service.	
Country - a nation as commonly understood or generally accepted.	
Time period when address was/is in use.	
Physical form of the location, e.g. building, room, vehicle, road.	example
The absolute geographic location of the Location, expressed using the WGS84 datum (This is the same co-ordinate system used in KML).	

<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Longitude. The value domain and the interpretation are the same as for the text of the longitude element in KML (see notes below).</p>	
<p>Latitude. The value domain and the interpretation are the same as for the text of the latitude element in KML (see notes below).</p>	
<p>Altitude. The value domain and the interpretation are the same as for the text of the altitude element in KML (see notes below).</p>	
<p>The organization responsible for the provisioning and upkeep of the location.</p>	

Another Location of which this Location is physically a part of.	
What days/times during a week is this location usually open.	
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
Indicates which days of the week are available between the start and end Times.	required
The Location is open all day.	
Time that the Location opens.	
Time that the Location closes.	
A description of when the locations opening ours are different to normal, e.g. public holiday availability. Succinctly describing all possible exceptions to normal site availability as detailed in the opening hours Times.	

Technical endpoints providing access to services operated for the location.	
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Binding Description	Binding Value Set	RPS
		R [1..*]
		R [1..1]
		NRT
		NRT
CommonLanguages	http://hl7.org/fhir/ValueSet	NRT
		NRT
		NRT
		NRT

		NRT
		NRT
LocationStatus	http://hl7.org/fhir/ValueSet	MS [0..1]
hl7VS-bedStatus	http://terminology.hl7.org	NR
		R [1..1]
		MS [0..*]

		NR
LocationMode	http://hl7.org/fhir/ValueSet	NR
ServiceDeliveryLocationRoleType	http://terminology.hl7.org	<p>R [1..*]</p> <p>The following constraint is written into the CQL:</p> <pre> valueset "Inpatient, Emergency, and Observation Locations": 'http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1046.265'</pre>
		MS [0..*]
		MS [0..1]
		NRT

		NRT
AddressUse	http://hl7.org/fhir/ValueSet	MS [0..1]
AddressType	http://hl7.org/fhir/ValueSet	NR
		NR
		NR
		NR
		NR
USPS Two Letter Alphabetic Codes	http://hl7.org/fhir/us/core/	NR
		NR
		NR
		NR
Physical form of the location.	http://hl7.org/fhir/ValueSet	NR
		NR

		NRT
		NRT
		NRT
		NR
		NR
		NR
		NR

		MS [0..1]
		NR
		NRT
		NRT
		NRT
The days of the week.	http://hl7.org/fhir/ValueSet	NR
		NR
		NR
		NR
		NR

		NR
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FHIR Path	Min	Max	Must Support?
Medication	0	*	
Medication.id	0	1	
Medication.meta	0	1	
Medication.implicitRules	0	1	
Medication.language	0	1	

Medication.text	0	1	
Medication.contained	0	*	
Medication.extension	0	*	

Medication.modifierExtension	0	*	
Medication.identifier	0	*	
Medication.code	1	1	Y
Medication.status	0	1	

Medication.manufacturer	0	1	
Medication.form	0	1	
Medication.amount	0	1	
Medication.ingredient	0	*	
Medication.ingredient.id	0	1	
Medication.ingredient.extension	0	*	

Medication.ingredient.modifierExtension	0	*	
Medication.ingredient.item[x]	1	1	
Medication.ingredient.isActive	0	1	
Medication.ingredient.strength	0	1	

Medication.batch	0	1	
Medication.batch.id	0	1	
Medication.batch.extension	0	*	
Medication.batch.modifierExtension	0	*	
Medication.batch.lotNumber	0	1	
Medication.batch.expirationDate	0	1	

Data Type(s)	FHIR Short Description	FHIR Definition	Binding Strength
Medication	Definition of a Medication	The US Core Medication Profile is based upon the core FHIR Medication Resource and created to meet the 2015 Edition Common Clinical Data Set 'Medications' requirements.	
string	Logical id of this artifact	The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.	
Meta	Metadata about the resource	The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.	
uri	A set of rules under which this content was created	A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.	
code	Language of the resource content	The base language in which the resource is written. (ex English)	preferred

Narrative	Text summary of the resource, for human interpretation	A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.	
Resource	Contained, inline Resources	These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.	
Extension	Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

Extension	Extensions that cannot be ignored	<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
Identifier	Business identifier for this medication	Business identifier for this medication.	
CodeableConcept	Codes that identify this medication	A code (or set of codes) that specify this medication, or a textual description if no code is available. Usage note: This could be a standard medication code such as a code from RxNorm, SNOMED CT, IDMP etc. It could also be a national or local formulary code, optionally with translations to other code systems.	extensible
code	active inactive entered-in-error	A code to indicate if the medication is in active use.	required

Reference(Organizati on)	Manufacturer of the item	Describes the details of the manufacturer of the medication product. This is not intended to represent the distributor of a medication product.	
CodeableConcept	powder tablets capsule +	Describes the form of the item. Powder; tablets; capsule.	example
Ratio	Amount of drug in package	Specific amount of the drug in the packaged product. For example, when specifying a product that has the same strength (For example, Insulin glargine 100 unit per mL solution for injection), this attribute provides additional clarification of the package amount (For example, 3 mL, 10mL, etc.).	
BackboneElement	Active or inactive ingredient	Identifies a particular constituent of interest in the product.	
string	Unique id for inter- element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Extension	Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

Extension	Extensions that cannot be ignored even if unrecognized	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
CodeableConcept Reference(SubstanceMedication)	The actual ingredient or content	The actual ingredient - either a substance (simple ingredient) or another medication of a medication.	
boolean	Active ingredient indicator	Indication of whether this ingredient affects the therapeutic action of the drug.	
Ratio	Quantity of ingredient present	Specifies how many (or how much) of the items there are in this Medication. For example, 250 mg per tablet. This is expressed as a ratio where the numerator is 250mg and the denominator is 1 tablet.	

BackboneElement	Details about packaged medications	Information that only applies to packages (not products).	
string	Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
Extension	Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
Extension	Extensions that cannot be ignored even if unrecognized	May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is	
string	Identifier assigned to batch	The assigned lot number of a batch of the specified product.	
dateTime	When batch will expire	When this specific batch of product will expire.	

Binding Description	Binding Value Set	RPS
		MS [0..*]
		R [1..1]
		NRT
		NRT
CommonLanguages	http://hl7.org/fhir/ValueSet/languages	NRT

		NRT
		NRT
		NRT

		NRT
		NRT
USCoreMedication Codes	http://hl7.org/fhir/us/core/STU3	R [1..1]
Medication Status Codes	http://hl7.org/fhir/ValueSet/med	MS [0..*]

		NR
4.0.1 SNOMEDCTFormC odes	http://hl7.org/fhir/ValueSet/med	MS [0..1]
		MS [0..1]
		MS [0..*]
		NRT
		NRT

		NRT
		R [1..1]
		NRT
		NR

		NR
		NRT
		NRT
		NRT
		NR
		NR

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FHIRPath	Min	Max
MedicationAdministration	0	*
MedicationAdministration.id	0	1
MedicationAdministration.meta	0	1
MedicationAdministration.implicitRules	0	1
MedicationAdministration.language	0	1
MedicationAdministration.text	0	1
MedicationAdministration.contained	0	*
MedicationAdministration.extension	0	*

MedicationAdministration.modifierExtension	0	*
MedicationAdministration.identifier	0	*
MedicationAdministration.instantiates	0	*
MedicationAdministration.partOf	0	*
MedicationAdministration.status	1	1
MedicationAdministration.statusReason	0	*
MedicationAdministration.category	0	1
MedicationAdministration.medication[x]	1	1
MedicationAdministration.subject	1	1

MedicationAdministration.context	0	1
MedicationAdministration.supportingInformation	0	*
MedicationAdministration.effective[x]	1	1
MedicationAdministration.performer	0	*
MedicationAdministration.performer.id	0	1
MedicationAdministration.performer.extension	0	*
MedicationAdministration.performer.modifierExtension	0	*
MedicationAdministration.performer.function	0	1
MedicationAdministration.performer.actor	1	1

MedicationAdministration.reasonCode	0	*
MedicationAdministration.reasonReference	0	*
MedicationAdministration.request	0	1
MedicationAdministration.device	0	*
MedicationAdministration.note	0	*
MedicationAdministration.dosage	0	1
MedicationAdministration.dosage.id	0	1
MedicationAdministration.dosage.extension	0	*
MedicationAdministration.dosage.modifierExtension	0	*

MedicationAdministration.dosage.text	0	1
MedicationAdministration.dosage.site	0	1
MedicationAdministration.dosage.route	0	1
MedicationAdministration.dosage.method	0	1
MedicationAdministration.dosage.dose	0	1
MedicationAdministration.dosage.rate[x]	0	1
MedicationAdministration.eventHistory	0	*

Data Type(s)	FHIR Short Description
	Administration of medication to a patient
id	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created
code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored
Identifier	External identifier
uri	Instantiates protocol or definition
Reference(MedicationAdministration Procedure)	Part of referenced event
code	in-progress not-done on-hold completed entered-in-error stopped unknown
CodeableConcept	Reason administration not performed
CodeableConcept	Type of medication usage
CodeableConcept Reference(Medication)	What was administered
Reference(Patient Group)	Who received medication

Reference(Encounter EpisodeOfCare)	Encounter or Episode of Care administered as part of
Reference(Any)	Additional information to support administration
dateTime Period	Start and end time of administration
BackboneElement	Who performed the medication administration and what they did
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized
CodeableConcept	Type of performance
Reference(Practitioner PractitionerRole Patient RelatedPerson Device)	Who performed the medication administration

CodeableConcept	Reason administration performed
Reference(Condition Observation DiagnosticReport)	Condition or observation that supports why the medication was administered
Reference(MedicationRequest)	Request administration performed against
Reference(Device)	Device used to administer
Annotation	Information about the administration
BackboneElement	Details of how medication was taken + Rule: SHALL have at least one of dosage.dose or dosage.rate[x]
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized

string	Free text dosage instructions e.g. SIG
CodeableConcept	Body site administered to
CodeableConcept	Path of substance into body
CodeableConcept	How drug was administered
SimpleQuantity	Amount of medication per dose
Ratio SimpleQuantity	Dose quantity per unit of time
Reference(Provenance)	A list of events of interest in the lifecycle

FHIR Definition	Binding Strength
Describes the event of a patient consuming or otherwise being administered a medication. This may be as simple as swallowing a tablet or it may be a long running infusion. Related resources tie this event to the authorizing prescription, and the specific encounter between patient and health care practitioner.	
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.	
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.	
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.	
The base language in which the resource is written.	preferred but limited to AllLanguages
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.	
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.	
May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Identifiers associated with this Medication Administration that are defined by business processes and/or used to refer to it when a direct URL reference to the resource itself is not appropriate. They are business identifiers assigned to this resource by the performer or other systems and remain constant as the resource is updated and propagates from server to server.</p>	
<p>A protocol, guideline, orderset, or other definition that was adhered to in whole or in part by this event.</p>	
<p>A larger event of which this particular event is a component or step.</p>	
<p>Will generally be set to show that the administration has been completed. For some long running administrations such as infusions, it is possible for an administration to be started but not completed or it may be paused while some other process is under way.</p>	required
<p>A code indicating why the administration was not performed.</p>	example
<p>Indicates where the medication is expected to be consumed or administered.</p>	preferred
<p>Identifies the medication that was administered. This is either a link to a resource representing the details of the medication or a simple attribute carrying a code that identifies the medication from a known list of medications.</p>	example
<p>The person or animal or group receiving the medication.</p>	

<p>The visit, admission, or other contact between patient and health care provider during which the medication administration was performed.</p>	
<p>Additional information (for example, patient height and weight) that supports the administration of the medication.</p>	
<p>A specific date/time or interval of time during which the administration took place (or did not take place, when the 'notGiven' attribute is true). For many administrations, such as swallowing a tablet the use of dateTime is more appropriate.</p>	
<p>Indicates who or what performed the medication administration and how they were involved.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Distinguishes the type of involvement of the performer in the medication administration.</p>	example
<p>Indicates who or what performed the medication administration.</p>	

A code indicating why the medication was given.	example
Condition or observation that supports why the medication was administered.	
The original request, instruction or authority to perform the administration.	
The device used in administering the medication to the patient. For example, a particular infusion pump.	
Extra information about the medication administration that is not conveyed by the other attributes.	
Describes the medication dosage information details e.g. dose, rate, site, route, etc.	
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	

Free text dosage can be used for cases where the dosage administered is too complex to code. When coded dosage is present, the free text dosage may still be present for display to humans. The dosage instructions should reflect the dosage of the medication that was administered.	
A coded specification of the anatomic site where the medication first entered the body. For example, "left arm".	example
A code specifying the route or physiological path of administration of a therapeutic agent into or onto the patient. For example, topical, intravenous, etc.	example
A coded value indicating the method by which the medication is intended to be or was introduced into or on the body. This attribute will most often NOT be populated. It is most commonly used for injections. For example, Slow Push, Deep IV.	example
The amount of the medication given at one administration event. Use this value when the administration is essentially an instantaneous event such as a swallowing a tablet or giving an injection.	
Identifies the speed with which the medication was or will be introduced into the patient. Typically, the rate for an infusion e.g. 100 ml per 1 hour or 100 ml/hr. May also be expressed as a rate per unit of time, e.g. 500 ml per 2 hours. Other examples: 200 mcg/min or 200 mcg/1 minute; 1 liter/8 hours.	
A summary of the events of interest that have occurred, such as when the administration was verified.	

Binding Description (Value Set Name)	Binding Value Set	RPS
		MS [0..*]
		R [1..1]
		NRT
		NRT
CommonLanguages	http://hl7.org/fhir/ValueSet/la	NRT
		NRT
		NRT
		NRT

		NRT
		NRT
		NR
		NR
MedicationAdministration Status Codes	http://hl7.org/fhir/ValueSet/medication-administration-status-codes	R [1..1]
SNOMEDCTReasonMedicationNotGivenCodes	http://hl7.org/fhir/ValueSet/reason-medication-not-given-codes	MS [0..*]
MedicationAdministration Category Codes	http://hl7.org/fhir/R4/valuesets/medication-administration-category-codes	MS [0..*]
SNOMEDCTMedicationCodes	http://hl7.org/fhir/ValueSet/medication-codes	R [1..1]
		R [1..1]

		MS [0..1]
		NR
		R [1..1]
		NR
		NRT
		NRT
		NRT
MedicationAdministration Performer Function Codes	http://hl7.org/fhir/ValueSet/m	NR
		NR

ReasonMedicationGivenCodes	http://hl7.org/fhir/ValueSet/reasonMedicationGivenCodes	MS [0..*]
		MS [0..*]
		MS [0..1]
		NR
		NR
		NR
		NRT
		NRT
		NRT

		NR
SNOMEDCTAnatomicalStructureForAdministrationSiteCodes	http://hl7.org/fhir/ValueSet/a	NR
SNOMEDCTRouteCodes	http://hl7.org/fhir/ValueSet/r	NR
SNOMEDCTAdministrationMethodCodes	http://hl7.org/fhir/ValueSet/a	NR
		NR
		NR
		NR

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FHIR Path	Min	Max	Must Support?
MedicationRequest	0	*	
MedicationRequest.id	0	1	
MedicationRequest.meta	0	1	
MedicationRequest.implicitRules	0	1	

MedicationRequest.language	0	1	
MedicationRequest.text	0	1	
MedicationRequest.contained	0	*	

MedicationRequest.extension	0	*	
MedicationRequest.modifierExtension	0	*	

MedicationRequest.identifier	0	*	
MedicationRequest.status	1	1	Y
MedicationRequest.statusReason	0	1	
MedicationRequest.intent	1	1	Y

MedicationRequest.category	0	*	
MedicationRequest.priority	0	1	
MedicationRequest.doNotPerform	0	1	
MedicationRequest.reported[x]	0	1	Y
MedicationRequest.medication[x]	1	1	Y

MedicationRequest.subject	1	1	Y
MedicationRequest.encounter	0	1	Y
MedicationRequest.supportingInformation	0	*	
MedicationRequest.authoredOn	1	1	Y
MedicationRequest.requester	1	1	Y
MedicationRequest.performer	0	1	
MedicationRequest.performerType	0	1	
MedicationRequest.recorder	0	1	
MedicationRequest.reasonCode	0	*	

MedicationRequest.reasonReference	0	*	
MedicationRequest.instantiatesCanonical	0	*	
MedicationRequest.instantiatesUri	0	*	
MedicationRequest.basedOn	0	*	
MedicationRequest.groupIdentifier	0	1	
MedicationRequest.courseOfTherapyType	0	1	
MedicationRequest.insurance	0	*	
MedicationRequest.note	0	*	

MedicationRequest.dosageInstruction	0	*	Y
MedicationRequest.dosageInstruction.id	0	1	
MedicationRequest.dosageInstruction.extension	0	*	

MedicationRequest.dosageInstruction.modifierExtension	0	*	
MedicationRequest.dosageInstruction.sequence	0	1	
MedicationRequest.dosageInstruction.text	0	1	Y
MedicationRequest.dosageInstruction.additionalInstruction	0	*	
MedicationRequest.dosageInstruction.patientInstruction	0	1	

MedicationRequest.dosageInstruction.timing	0	1	
MedicationRequest.dosageInstruction.asNeeded[x]	0	1	
MedicationRequest.dosageInstruction.site	0	1	
MedicationRequest.dosageInstruction.route	0	1	
MedicationRequest.dosageInstruction.method	0	1	
MedicationRequest.dosageInstruction.doseAndRate	0	*	
MedicationRequest.dosageInstruction.doseAndRate.id	0	1	

MedicationRequest.dosageInstruction.doseAndRate.extension	0	*	
MedicationRequest.dosageInstruction.doseAndRate.type	0	1	
MedicationRequest.dosageInstruction.doseAndRate.dose[x]	0	1	

MedicationRequest.dosageInstruction.doseAmountRate.rate[x]	0	1	
MedicationRequest.dosageInstruction.maxDosePerPeriod	0	1	
MedicationRequest.dosageInstruction.maxDosePerAdministration	0	1	
MedicationRequest.dosageInstruction.maxDosePerLifetime	0	1	

MedicationRequest.dispenseRequest	0	1	
MedicationRequest.dispenseRequest.id	0	1	
MedicationRequest.dispenseRequest.extension	0	*	

MedicationRequest.dispenseRequest.modifierExtension	0	*	
MedicationRequest.dispenseRequest.initialFill	0	1	
MedicationRequest.dispenseRequest.initialFill.id	0	1	

MedicationRequest.dispenseRequest.initialFillExtension	0	*	
MedicationRequest.dispenseRequest.initialFillModifierExtension	0	*	
MedicationRequest.dispenseRequest.initialFillQuantity	0	1	
MedicationRequest.dispenseRequest.initialFillDuration	0	1	

MedicationRequest.dispenseRequest.dispenseInterval	0	1	
MedicationRequest.dispenseRequest.validityPeriod	0	1	
MedicationRequest.dispenseRequest.numberOfRepeatsAllowed	0	1	
MedicationRequest.dispenseRequest.quantity	0	1	
MedicationRequest.dispenseRequest.expectedSupplyDuration	0	1	

MedicationRequest.dispenseRequest.performer	0	1	
MedicationRequest.substitution	0	1	
MedicationRequest.substitution.id	0	1	
MedicationRequest.substitution.extension	0	*	

MedicationRequest.substitution.modifierExtension	0	*	
MedicationRequest.substitution.allowed[x]	1	1	
MedicationRequest.substitution.reason	0	1	
MedicationRequest.priorPrescription	0	1	

MedicationRequest.detectedIssue	0	*	
MedicationRequest.eventHistory	0	*	

Data Type(s)	FHIR Short Description
	Ordering of medication for patient or group
string	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created

code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources

Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored

Identifier	External ids for this request
code	active on-hold cancelled completed entered-in-error stopped draft unknown
CodeableConcept	Reason for current status+F14
code	proposal plan order original-order reflex-order filler-order instance-order option

CodeableConcept	Type of medication usage
code	routine urgent asap stat
boolean	True if request is prohibiting action
boolean Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitionerrole http://hl7.org/fhir/us/core/StructureDefinition/us-core-relatedperson)	Reported rather than primary record
CodeableConcept Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication)	Medication to be taken

Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient)	Who or group medication request is for
Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-encounter)	Encounter created as part of encounter/admission/stay
Reference(Resource)	Information to support ordering of the medication
dateTime	When request was initially authored
Reference(US Core Practitioner Profile US Core Organization Profile US Core Patient Profile)	Who/What requested the Request
Reference(Practitioner PractitionerRole Organization Patient Device RelatedPerson CareTeam)	Intended performer of administration
CodeableConcept	Desired kind of performer of the medication administration
Reference(Practitioner PractitionerRole)	Person who entered the request
CodeableConcept	Reason or indication for ordering or not ordering the medication

Reference(Condition Observation)	Condition or observation that supports why the prescription is being written
canonical	Instantiates FHIR protocol or definition
uri	Instantiates external protocol or definition
Reference(CarePlan MedicationRequest ServiceRequest ImmunizationRecommendation)	What request fulfills
Identifier	Composite request this is part of
CodeableConcept	Overall pattern of medication administration
Reference(Coverage ClaimResponse)	Associated insurance coverage
Annotation	Information about the prescription

Dosage	How the medication should be taken
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
integer	The order of the dosage instructions
string	Free text dosage instructions e.g. SIG
CodeableConcept	Supplemental instruction or warnings to the patient - e.g. "with meals", "may cause drowsiness"
string	Patient or consumer oriented instructions

Timing	When medication should be administered
boolean CodeableConcept	Take "as needed" (for x)
CodeableConcept	Body site to administer to
CodeableConcept	How drug should enter body
CodeableConcept	Technique for administering medication
Element	Amount of medication administered
string	Unique id for inter-element referencing

Extension	Additional content defined by implementations
CodeableConcept	The kind of dose or rate specified
Range Quantity {SimpleQuantity}	Amount of medication per dose

Ratio RangeQuantity {SimpleQuantity}	Amount of medication per unit of time
Ratio	Upper limit on medication per unit of time
Quantity {SimpleQuantity}	Upper limit on medication per administration
Quantity {SimpleQuantity}	Upper limit on medication per lifetime of the patient

BackboneElement	Medication supply authorization
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
BackboneElement	First fill details
string	Unique id for inter-element referencing

Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized
Quantity {SimpleQuantity}	First fill quantity
Duration	First fill duration

Duration	Minimum period of time between dispenses
Period	Time period supply is authorized for
unsignedInt	Number of refills authorized
Quantity {SimpleQuantity}	Amount of medication to supply per dispense
Duration	Number of days supply per dispense

Reference(Organization)	Intended dispenser
BackboneElement	Any restrictions on medication substitution
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
boolean CodeableConcept	Whether substitution is allowed or not
CodeableConcept	Why should (not) substitution be made
Reference(Medication Request)	An order/prescription that is being replaced

Reference(Detected Issue)	Clinical Issue with action
Reference(Provenance)	A list of events of interest in the lifecycle

FHIR Definition	Comments
<p>The US Core Medication Request (Order) Profile is based upon the core FHIR MedicationRequest Resource and created to meet the 2015 Edition Common Clinical Data Set 'Medications' requirements.</p>	
<p>The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.</p>	<p>The only time that a resource does not have an id is when it is being submitted to the server using a create operation.</p>
<p>The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.</p>	
<p>A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.</p>	<p>Asserting this rule set restricts the content to be only understood by a limited set of trading partners. This inherently limits the usefulness of the data in the long term. However, the existing health eco-system is highly fractured, and not yet ready to define, collect, and exchange data in a generally computable sense. Wherever possible, implementers and/or specification writers should avoid using this element. Often, when used, the URL is a reference to an implementation guide that defines these special rules as part of it's narrative along with other profiles, value sets, etc.</p>

<p>The base language in which the resource is written.</p>	<p>Language is provided to support indexing and accessibility (typically, services such as text to speech use the language tag). The html language tag in the narrative applies to the narrative. The language tag on the resource may be used to specify the language of other presentations generated from the data in the resource. Not all the content has to be in the base language. The Resource.language should not be assumed to apply to the narrative automatically. If a language is specified, it should it also be specified on the div element in the html (see rules in HTML5 for information about the relationship between xml:lang and the html lang attribute).</p>
<p>A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.</p>	<p>Contained resources do not have narrative. Resources that are not contained SHOULD have a narrative. In some cases, a resource may only have text with little or no additional discrete data (as long as all minOccurs=1 elements are satisfied). This may be necessary for data from legacy systems where information is captured as a "text blob" or where text is additionally entered raw or narrated and encoded information is added later.</p>
<p>These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.</p>	<p>This should never be done when the content can be identified properly, as once identification is lost, it is extremely difficult (and context dependent) to restore it again. Contained resources may have profiles and tags in their meta elements, but SHALL NOT have security labels.</p>

<p>May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

<p>Identifiers associated with this medication request that are defined by business processes and/or used to refer to it when a direct URL reference to the resource itself is not appropriate. They are business identifiers assigned to this resource by the performer or other systems and remain constant as the resource is updated and propagates from server to server.</p>	<p>This is a business identifier, not a resource identifier.</p>
<p>A code specifying the current state of the order. Generally, this will be active or completed state.</p>	<p>This element is labeled as a modifier because the status contains codes that mark the resource as not currently valid.</p>
<p>Captures the reason for the current state of the MedicationRequest.</p>	<p>This is generally only used for "exception" statuses such as "suspended" or "cancelled". The reason why the MedicationRequest was created at all is captured in reasonCode, not here.</p>
<p>Whether the request is a proposal, plan, or an original order.</p>	<p>It is expected that the type of requester will be restricted for different stages of a MedicationRequest. For example, Proposals can be created by a patient, relatedPerson, Practitioner or Device. Plans can be created by Practitioners, Patients, RelatedPersons and Devices. Original orders can be created by a Practitioner only.</p> <p>An instance-order is an instantiation of a request or order and may be used to populate Medication Administration Record.</p> <p>This element is labeled as a modifier because the intent alters when and how the resource is actually applicable.</p>

<p>Indicates the type of medication request (for example, where the medication is expected to be consumed or administered (i.e. inpatient or outpatient)).</p>	<p>The category can be used to include where the medication is expected to be consumed or other types of requests.</p>
<p>Indicates how quickly the Medication Request should be addressed with respect to other requests.</p>	
<p>If true indicates that the provider is asking for the medication request not to occur.</p>	<p>If do not perform is not specified, the request is a positive request e.g. "do perform".</p>
<p>Indicates if this record was captured as a secondary 'reported' record rather than as an original primary source-of-truth record. It may also indicate the source of the report.</p>	
<p>Identifies the medication being requested. This is a link to a resource that represents the medication which may be the details of the medication or simply an attribute carrying a code that identifies the medication from a known list of medications.</p>	<p>If only a code is specified, then it needs to be a code for a specific product. If more information is required, then the use of the Medication resource is recommended. For example, if you require form or lot number or if the medication is compounded or extemporaneously prepared, then you must reference the Medication resource.</p>

<p>A link to a resource representing the person or set of individuals to whom the medication will be given.</p>	<p>The subject on a medication request is mandatory. For the secondary use case where the actual subject is not provided, there still must be an anonymized subject specified.</p>
<p>The Encounter during which this [x] was created or to which the creation of this record is tightly associated.</p>	<p>This will typically be the encounter the event occurred within, but some activities may be initiated prior to or after the official completion of an encounter but still be tied to the context of the encounter." If there is a need to link to episodes of care they will be handled with an extension.</p>
<p>Include additional information (for example, patient height and weight) that supports the ordering of the medication.</p>	
<p>The date (and perhaps time) when the prescription was initially written or authored on.</p>	
<p>The individual, organization, or device that initiated the request and has responsibility for its activation.</p>	
<p>The specified desired performer of the medication treatment (e.g. the performer of the medication administration).</p>	
<p>Indicates the type of performer of the administration of the medication.</p>	<p>If specified without indicating a performer, this indicates that the performer must be of the specified type. If specified with a performer then it indicates the requirements of the performer if the designated performer is not available.</p>
<p>The person who entered the order on behalf of another individual for example in the case of a verbal or a telephone order.</p>	
<p>The reason or the indication for ordering or not ordering the medication.</p>	<p>This could be a diagnosis code. If a full condition record exists or additional detail is needed, use reasonReference.</p>

Condition or observation that supports why the medication was ordered.	This is a reference to a condition or observation that is the reason for the medication order. If only a code exists, use reasonCode.
The URL pointing to a protocol, guideline, orderset, or other definition that is adhered to in whole or in part by this MedicationRequest.	can include a version number (FHIR based)
The URL pointing to an externally maintained protocol, guideline, orderset or other definition that is adhered to in whole or in part by this MedicationRequest.	
A plan or request that is fulfilled in whole or in part by this medication request.	
A shared identifier common to all requests that were authorized more or less simultaneously by a single author, representing the identifier of the requisition or prescription.	
The description of the overall pattern of the administration of the medication to the patient.	This attribute should not be confused with the protocol of the medication.
Insurance plans, coverage extensions, pre-authorizations and/or pre-determinations that may be required for delivering the requested service.	
Extra information about the prescription that could not be conveyed by the other attributes.	

<p>Indicates how the medication is to be used by the patient.</p>	<p>There are examples where a medication request may include the option of an oral dose or an Intravenous or Intramuscular dose. For example, "Ondansetron 8mg orally or IV twice a day as needed for nausea" or "Compazine® (prochlorperazine) 5-10mg PO or 25mg PR bid prn nausea or vomiting". In these cases, two medication requests would be created that could be grouped together. The decision on which dose and route of administration to use is based on the patient's condition at the time the dose is needed.</p>
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>Indicates the order in which the dosage instructions should be applied or interpreted.</p>	
<p>Free text dosage instructions e.g. SIG.</p>	
<p>Supplemental instructions to the patient on how to take the medication (e.g. "with meals" or "take half to one hour before food") or warnings for the patient about the medication (e.g. "may cause drowsiness" or "avoid exposure of skin to direct sunlight or sunlamps").</p>	<p>Information about administration or preparation of the medication (e.g. "infuse as rapidly as possible via intraperitoneal port" or "immediately following drug x") should be populated in dosage.text.</p>
<p>Instructions in terms that are understood by the patient or consumer.</p>	

When medication should be administered.	This attribute might not always be populated while the Dosage.text is expected to be populated. If both are populated, then the Dosage.text should reflect the content of the Dosage.timing.
Indicates whether the Medication is only taken when needed within a specific dosing schedule (Boolean option), or it indicates the precondition for taking the Medication (CodeableConcept).	Can express "as needed" without a reason by setting the Boolean = True. In this case the CodeableConcept is not populated. Or you can express "as needed" with a reason by including the CodeableConcept. In this case the Boolean is assumed to be True. If you set the Boolean to False, then the dose is given according to the schedule and is not "prn" or "as needed".
Body site to administer to.	If the use case requires attributes from the BodySite resource (e.g. to identify and track separately) then use the standard extension [bodySite](http://hl7.org/fhir/R4/extension-bodysite.html). May be a summary code, or a reference to a very precise definition of the location, or both.
How drug should enter body.	
Technique for administering medication.	Terminologies used often pre-coordinate this term with the route and or form of administration.
The amount of medication administered.	
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	

<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>The kind of dose or rate specified, for example, ordered or calculated.</p>	
<p>Amount of medication per dose.</p>	<p>Note that this specifies the quantity of the specified medication, not the quantity for each active ingredient(s). Each ingredient amount can be communicated in the Medication resource. For example, if one wants to communicate that a tablet was 375 mg, where the dose was one tablet, you can use the Medication resource to document that the tablet was comprised of 375 mg of drug XYZ. Alternatively if the dose was 375 mg, then you may only need to use the Medication resource to indicate this was a tablet. If the example were an IV such as dopamine and you wanted to communicate that 400mg of dopamine was mixed in 500 ml of some IV solution, then this would all be communicated in the Medication resource. If the administration is not intended to be instantaneous (rate is present or timing has a duration), this can be specified to convey the total amount to be administered over the period of time as indicated by the schedule e.g. 500 ml in dose, with timing used to convey that this should be done over 4 hours.</p>

<p>Amount of medication per unit of time.</p>	<p>It is possible to supply both a rate and a doseQuantity to provide full details about how the medication is to be administered and supplied. If the rate is intended to change over time, depending on local rules/regulations, each change should be captured as a new version of the MedicationRequest with an updated rate, or captured with a new MedicationRequest with the new rate. It is possible to specify a rate over time (for example, 100 ml/hour) using either the rateRatio and rateQuantity. The rateQuantity approach requires systems to have the capability to parse UCUM grammar where ml/hour is included rather than a specific ratio where the time is specified as the denominator. Where a rate such as 500ml over 2 hours is specified, the use of rateRatio may be more semantically correct than specifying using a rateQuantity of 250 mg/hour.</p>
<p>Upper limit on medication per unit of time.</p>	<p>This is intended for use as an adjunct to the dosage when there is an upper cap. For example "2 tablets every 4 hours to a maximum of 8/day".</p>
<p>Upper limit on medication per administration.</p>	<p>This is intended for use as an adjunct to the dosage when there is an upper cap. For example, a body surface area related dose with a maximum amount, such as 1.5 mg/m² (maximum 2 mg) IV over 5 - 10 minutes would have doseQuantity of 1.5 mg/m² and maxDosePerAdministration of 2 mg.</p>
<p>Upper limit on medication per lifetime of the patient.</p>	

<p>Indicates the specific details for the dispense or medication supply part of a medication request (also known as a Medication Prescription or Medication Order). Note that this information is not always sent with the order. There may be in some settings (e.g. hospitals) institutional or system support for completing the dispense details in the pharmacy department.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

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<p>Indicates the quantity or duration for the first dispense of the medication.</p>	<p>If populating this element, either the quantity or the duration must be included.</p>
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	

<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
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<p>The amount or quantity to provide as part of the first dispense.</p>	
<p>The length of time that the first dispense is expected to last.</p>	

<p>The minimum period of time that must occur between dispenses of the medication.</p>	
<p>This indicates the validity period of a prescription (stale dating the Prescription).</p>	<p>It reflects the prescribers' perspective for the validity of the prescription. Dispenses must not be made against the prescription outside of this period. The lower-bound of the Dispensing Window signifies the earliest date that the prescription can be filled for the first time. If an upper-bound is not specified then the Prescription is open-ended or will default to a stale-date based on regulations.</p>
<p>An integer indicating the number of times, in addition to the original dispense, (aka refills or repeats) that the patient can receive the prescribed medication. Usage Notes: This integer does not include the original order dispense. This means that if an order indicates dispense 30 tablets plus "3 repeats", then the order can be dispensed a total of 4 times and the patient can receive a total of 120 tablets. A prescriber may explicitly say that zero refills are permitted after the initial dispense.</p>	<p>If displaying "number of authorized fills", add 1 to this number.</p>
<p>The amount that is to be dispensed for one fill.</p>	
<p>Identifies the period time over which the supplied product is expected to be used, or the length of time the dispense is expected to last.</p>	<p>In some situations, this attribute may be used instead of quantity to identify the amount supplied by how long it is expected to last, rather than the physical quantity issued, e.g. 90 days supply of medication (based on an ordered dosage). When possible, it is always better to specify quantity, as this tends to be more precise. expectedSupplyDuration will always be an estimate that can be influenced by external factors.</p>

<p>Indicates the intended dispensing Organization specified by the prescriber.</p>	
<p>Indicates whether or not substitution can or should be part of the dispense. In some cases, substitution must happen, in other cases substitution must not happen. This block explains the prescriber's intent. If nothing is specified substitution may be done.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

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<p>True if the prescriber allows a different drug to be dispensed from what was prescribed.</p>	<p>This element is labeled as a modifier because whether substitution is allow or not, it cannot be ignored.</p>
<p>Indicates the reason for the substitution, or why substitution must or must not be performed.</p>	
<p>A link to a resource representing an earlier order related order or prescription.</p>	

<p>Indicates an actual or potential clinical issue with or between one or more active or proposed clinical actions for a patient; e.g. Drug-drug interaction, duplicate therapy, dosage alert etc.</p>	<p>This element can include a detected issue that has been identified either by a decision support system or by a clinician and may include information on the steps that were taken to address the issue.</p>
<p>Links to Provenance records for past versions of this resource or fulfilling request or event resources that identify key state transitions or updates that are likely to be relevant to a user looking at the current version of the resource.</p>	<p>This might not include provenances for all versions of the request - only those deemed "relevant" or important. This SHALL NOT include the provenance associated with this current version of the resource. (If that provenance is deemed to be a "relevant" change, it will need to be added as part of a later update. Until then, it can be queried directly as the provenance that points to this version using _reinclude All Provenances should have some historical version of this Request as their subject.).</p>

Binding Strength	Binding Description	Binding Value Set	RPS
			MS [0..*]
			R [1..1]
			NRT
			NRT

preferred	CommonLanguages	http://hl7.org/fhir/V3	NRT
			NRT
			NRT

			NRT
			NRT

			NRT
required	medicationrequest Status	http://hl7.org/fhir/ValueSet/medicationrequest-status-reason-codes	R [1..1] CQL is constrained to 'completed'
example	medicationRequest Status Reason Codes	http://hl7.org/fhir/ValueSet/medicationrequest-status-reason-codes	NRT
required	medicationRequest Intent	http://hl7.org/fhir/ValueSet/medicationrequest-intent	R [1..1]

example	medicationRequest Category Codes	http://hl7.org/fhir/ValueSet	MS [0..*]
required	RequestPriority	http://hl7.org/fhir/ValueSet	MS [0..1]
			MS [0..1]
			MS [0..1]
extensible	US Core Medication Codes (RxNorm)	http://cts.nlm.nih.gov	R [1..1]

			R [1..1]
			MS [0..1]
			NRT
			R [1..1]
			NR
			NRT
example	Procedure Performer Role Codes	http://hl7.org/fhir/V	NRT
			NR
example	Condition/ Problem/Diagnosis Codes	http://hl7.org/fhir/V	MS [0..*]

			MS [0..*]
			MS [0..*]
			MS [0..*]
			NRT
			NRT
example	Medication request course of therapy codes	http://hl7.org/fhir/R4	NR
			NRT
			NRT

			MS [0..*]
			NRT
			NRT

			NRT
			NRT
			NR
example	A coded concept identifying additional instructions such as "take with water" or "avoid operating heavy machinery".	http://hl7.org/fhir/R4	NRT
			NR

			MS [0..1]
example	A coded concept identifying the precondition that should be met or evaluated prior to consuming or administering a medication dose. For example "pain", "30 minutes prior to sexual intercourse", "on flare-up" etc.	http://hl7.org/fhir/ValueSet	MS [0..1]
example	A coded concept describing the site location the medicine enters into or onto the body.	http://hl7.org/fhir/ValueSet	MS [0..1]
example	A coded concept describing the route or physiological path of administration of a therapeutic agent into or onto the body of a subject.	http://hl7.org/fhir/ValueSet	R [1..1]
example	A coded concept describing the technique by which the medicine is administered.	http://hl7.org/fhir/ValueSet	MS [0..1]
			MS [0..*]
			NRT

			NRT
example	The kind of dose or rate specified.	http://hl7.org/fhir/R4	MS [0..1]
			MS [0..1]

			MS [0..1]
			NRT
			NRT
			NRT

			NRT
			NRT
			NRT

			NRT
			NRT
			NRT

			NRT
			NRT
			NRT
			NRT

			NRT
			NRT
			NRT
			NRT

			NRT
example	ActSubstanceAdminSubstitutionCode	http://terminology.h	NRT
example	SubstanceAdminSubstitutionReason	http://terminology.h	NRT
Y			NRT

Y			NRT
Y			NRT

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FHIR Path	Min	Max	Data Type(s)
Observation	0	*	DomainResource
Observation.id	0	1	id
Observation.meta	0	1	Meta
Observation.implicitRules	0	1	uri
Observation.language	0	1	code
Observation.text	0	1	Narrative

Observation.contained	0	*	Resource
Observation.extension	0	*	Extension

Observation.modifierExtension	0	*	Extension
Observation.identifier	0	*	Identifier
Observation.basedOn	0	*	Reference(CarePlan DeviceRequest ImmunizationRecommendation MedicationRequest NutritionOrder ServiceRequest)
Observation.partOf	0	*	Reference(MedicationAdministration MedicationDispense MedicationStatement Procedure Immunization ImagingStudy)
Observation.status	1	1	code

Observation.category	0	*	CodeableConcept
Observation.code	1	1	CodeableConcept
Observation.subject	0	1	Reference(Patient Group Device Location)
Observation.focus	0	*	Reference(Any)

Observation.encounter	0	1	Reference(Encounter)
Observation.effective[x]	0	1	dateTime Period Timing Instant
Observation.issued	0	1	instant
Observation.performer	0	*	Reference(Practitioner PractitionerRole Organization CareTeam Patient RelatedPerson)
Observation.value[x]	0	1	Quantity CodeableConcept string boolean integer Range Ratio SampledData time dateTime Period
Observation.dataAbsentReason	0	1	CodeableConcept
Observation.interpretation	0	*	CodeableConcept

Observation.note	0	*	Annotation
Observation.bodySite	0	1	CodeableConcept
Observation.method	0	1	CodeableConcept
Observation.specimen	0	1	Reference(Specimen)
Observation.device	0	1	Reference(Device DeviceMetric)
Observation.referenceRange	0	*	BackboneElement
Observation.referenceRange.id	0	1	string
Observation.referenceRange.extension	0	*	Extension

Observation.referenceRange. modifierExtension	0	*	Extension
Observation.referenceRange. low	0	1	SimpleQuantity
Observation.referenceRange. high	0	1	SimpleQuantity

Observation.referenceRange.type	0	1	CodeableConcept
Observation.referenceRange.appliesTo	0	*	CodeableConcept
Observation.referenceRange.age	0	1	Range
Observation.referenceRange.text	0	1	string
Observation.hasMember	0	*	Reference(Observation QuestionnaireResponse MolecularSequence)

Observation.derivedFrom	0	*	Reference(DocumentReference ImagingStudy Media QuestionnaireResponse Observation MolecularSequence)
Observation.component	0	*	BackboneElement
Observation.component.id	0	1	string
Observation.component.extension	0	*	Extension

Observation.component.modifierExtension	0	*	Extension
Observation.component.code	1	1	CodeableConcept
Observation.component.value[x]	0	1	Quantity CodeableConcept string boolean integer Range Ratio SampledData time dateTime Period
Observation.component.dataAbsentReason	0	1	CodeableConcept

Observation.component.interpretation	0	*	CodeableConcept
Observation.component.referenceRange	0	*	

FHIR Short Description	FHIR Definition
Measurements and simple assertions	Measurements and simple assertions made about a patient, device or other subject.
Logical id of this artifact	The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.
Metadata about the resource	The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.
A set of rules under which this content was created	A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.
Language of the resource content	The base language in which the resource is written.
Text summary of the resource, for human interpretation	A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.

Contained, inline Resources	These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.

Extensions that cannot be ignored	<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>
Business Identifier for observation	A unique identifier assigned to this observation.
Fulfills plan, proposal or order	A plan, proposal or order that is fulfilled in whole or in part by this event. For example, a MedicationRequest may require a patient to have laboratory test performed before it is dispensed.
Part of referenced event	A larger event of which this particular Observation is a component or step. For example, an observation as part of a procedure.
registered preliminary final amended +	The status of the result value.

Classification of type of observation	A code that classifies the general type of observation being made.
Type of observation (code / type)	Describes what was observed. Sometimes this is called the observation "name".
Who and/or what the observation is about	The patient, or group of patients, location, or device this observation is about and into whose record the observation is placed. If the actual focus of the observation is different from the subject (or a sample of, part, or region of the subject), the `focus` element or the `code` itself specifies the actual focus of the observation.
What the observation is about, when it is not about the subject of record	The actual focus of an observation when it is not the patient of record representing something or someone associated with the patient such as a spouse, parent, fetus, or donor. For example, fetus observations in a mother's record. The focus of an observation could also be an existing condition, an intervention, the subject's diet, another observation of the subject, or a body structure such as tumor or implanted device. An example use case would be using the Observation resource to capture whether the mother is trained to change her child's tracheostomy tube. In this example, the child is the patient of record and the mother is the focus.

Healthcare event during which this observation is made	The healthcare event (e.g. a patient and healthcare provider interaction) during which this observation is made.
Clinically relevant time/time-period for observation	The time or time-period the observed value is asserted as being true. For biological subjects - e.g. human patients - this is usually called the "physiologically relevant time". This is usually either the time of the procedure or of specimen collection, but very often the source of the date/time is not known, only the date/time itself.
Date/Time this version was made available	The date and time this version of the observation was made available to providers, typically after the results have been reviewed and verified.
Who is responsible for the observation	Who was responsible for asserting the observed value as "true".
Actual result	The information determined as a result of making the observation, if the information has a simple value.
Why the result is missing	Provides a reason why the expected value in the element Observation.value[x] is missing.
High, low, normal, etc.	A categorical assessment of an observation value. For example, high, low, normal.

Comments about the observation	Comments about the observation or the results.
Observed body part	Indicates the site on the subject's body where the observation was made (i.e. the target site).
How it was done	Indicates the mechanism used to perform the observation.
Specimen used for this observation	The specimen that was used when this observation was made.
(Measurement) Device	The device used to generate the observation data.
Provides guide for interpretation + <i>Rule: Must have at least a low or a high or text</i>	Guidance on how to interpret the value by comparison to a normal or recommended range. Multiple reference ranges are interpreted as an "OR". In other words, to represent two distinct target populations, two `referenceRange` elements would be used.
Unique id for inter-element referencing	Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.
Additional content defined by implementations	May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>
<p>Low Range, if relevant</p>	<p>The value of the low bound of the reference range. The low bound of the reference range endpoint is inclusive of the value (e.g. reference range is $\geq 5 - \leq 9$). If the low bound is omitted, it is assumed to be meaningless (e.g. reference range is ≤ 2.3).</p>
<p>High Range, if relevant</p>	<p>The value of the high bound of the reference range. The high bound of the reference range endpoint is inclusive of the value (e.g. reference range is $\geq 5 - \leq 9$). If the high bound is omitted, it is assumed to be meaningless (e.g. reference range is ≥ 2.3).</p>

Reference range qualifier	Codes to indicate the what part of the targeted reference population it applies to. For example, the normal or therapeutic range.
Reference range population	Codes to indicate the target population this reference range applies to. For example, a reference range may be based on the normal population or a particular sex or race. Multiple `appliesTo` are interpreted as an "AND" of the target populations. For example, to represent a target population of African American females, both a code of female and a code for African American would be used.
Applicable age range, if relevant	The age at which this reference range is applicable. This is a neonatal age (e.g. number of weeks at term) if the meaning says so.
Text based reference range in an observation	Text based reference range in an observation which may be used when a quantitative range is not appropriate for an observation. An example would be a reference value of "Negative" or a list or table of "normals".
Related resource that belongs to the Observation group	This observation is a group observation (e.g. a battery, a panel of tests, a set of vital sign measurements) that includes the target as a member of the group.

<p>Related measurements the observation is made from</p>	<p>The target resource that represents a measurement from which this observation value is derived. For example, a calculated anion gap or a fetal measurement based on an ultrasound image.</p>
<p>Component results</p>	<p>Some observations have multiple component observations. These component observations are expressed as separate code value pairs that share the same attributes. Examples include systolic and diastolic component observations for blood pressure measurement and multiple component observations for genetics observations.</p>
<p>Unique id for inter-element referencing</p>	<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>
<p>Additional content defined by implementations</p>	<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>

<p>Extensions that cannot be ignored even if unrecognized</p>	<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>
<p>Type of component observation (code / type)</p>	<p>Describes what was observed. Sometimes this is called the observation "code".</p>
<p>Actual component result</p>	<p>The information determined as a result of making the observation, if the information has a simple value.</p>
<p>Why the component result is missing</p>	<p>Provides a reason why the expected value in the element Observation.component.value[x] is missing.</p>

High, low, normal, etc.	A categorical assessment of an observation value. For example, high, low, normal.
Provides guide for interpretation of component result	Guidance on how to interpret the value by comparison to a normal or recommended range.

Binding Strength	Binding Description (Value Set Name)
preferred but limited to AllLanguages	CommonLanguages

required	ObservationStatus

preferred	ObservationCategoryCodes
example	LOINCCodes

extensible	DataAbsentReason
extensible	ObservationInterpretationCodes

preferred	ObservationReferenceRangeMeaningCodes
example	ObservationReferenceRangeAppliesToCodes

example	LOINCCodes
extensible	DataAbsentReason

extensible	ObservationInterpretationCodes

Binding Value Set	RPS
	MS [0..*]
	R[1..1]
	NRT
	NRT
http://hl7.org/fhir/ValueSet/language	NRT
	NRT

	NRT
	NRT

	NRT
	NRT
	NRT
	MS[0..*]
http://hl7.org/fhir/ValueSet/observation	R [1..1]

http://hl7.org/fhir/ValueSet/observed	MS [0..*]
http://hl7.org/fhir/ValueSet/observed	R [1..1]
	R [1..1]
	NR

	MS [0..1]
	R [1..1]
	MS [0..1]
	NR
	MS [0..1]
http://hl7.org/fhir/ValueSet/data-a	NR
http://hl7.org/fhir/ValueSet/obser	MS [0..*]

	NR
http://hl7.org/fhir/ValueSet/body-3	NR
http://hl7.org/fhir/ValueSet/observed	MS [0..1]
	NR
	NR
	NR
	NRT
	NRT

	NRT
	NR
	NR

http://hl7.org/fhir/ValueSet/referenc	NR
http://hl7.org/fhir/ValueSet/referenc	NR
	NR
	NR
	MS [0..*]

	NR
	MS [0..*]
	NRT
	NRT

	NRT
http://hl7.org/fhir/ValueSet/observation	R [1..1]
	MS [0..1]
http://hl7.org/fhir/ValueSet/data-admin	NR

http://hl7.org/fhir/ValueSet/observed	MS [0..*]
	NR

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FHIR Path	Min	Max	Must Support?
Patient	0	*	
Patient.id	0	1	
Patient.meta	0	1	
Patient.implicitRules	0	1	
Patient.language	0	1	
Patient.text	0	1	
Patient.contained	0	*	

Patient.extension	0	*	
Patient.extension (race)	0	1	Y
Patient.extension (ethnicity)	0	1	Y

Patient.extension (sex at birth)	0	1	Y
Patient.extension (gender identity)	0	1	
Patient.modifierExtension	0	*	
Patient.identifier	1	*	Y
Patient.identifier.id	0	1	

Patient.identifier.extension	0	*	
Patient.identifier.use	0	1	
Patient.identifier.type	0	1	
Patient.identifier.system	1	1	Y
Patient.identifier.value	1	1	Y
Patient.identifier.period	0	1	
Patient.identifier.assigner	0	1	
Patient.active	0	1	

Patient.name	1	*	Y
Patient.name.id	0	1	
Patient.name.extension	0	*	
Patient.name.use	0	1	
Patient.name.text	0	1	
Patient.name.family	0	1	Y
Patient.name.given	0	*	Y
Patient.name.prefix	0	*	

Patient.name.suffix	0	*	
Patient.name.period	0	1	
Patient.telecom	0	*	Y
Patient.telecom.id	0	1	
Patient.telecom.extension	0	*	
Patient.telecom.system	1	1	Y
Patient.telecom.value	1	1	Y
Patient.telecom.use	0	1	Y
Patient.telecom.rank	0	1	
Patient.telecom.period	0	1	
Patient.gender	1	1	Y
Patient.birthDate	0	1	Y

Patient.deceased[x]	0	1	
Patient.address	0	*	Y
Patient.address.id	0	1	
Patient.address.extension	0	*	
Patient.address.use	0	1	
Patient.address.type	0	1	
Patient.address.text	0	1	
Patient.address.line	0	*	Y
Patient.address.city	0	1	Y
Patient.address.district	0	1	
Patient.address.state	0	1	Y
Patient.address.postalCode	0	1	Y

Patient.address.country	0	1	
Patient.address.period	0	1	Y
Patient.maritalStatus	0	1	
Patient.multipleBirth[x]	0	1	
Patient.photo	0	*	
Patient.contact	0	*	
Patient.contact.id	0	1	
Patient.contact.extension	0	*	

Patient.contact.modifierExtension	0	*	
Patient.contact.relationship	0	*	
Patient.contact.name	0	1	
Patient.contact.telecom	0	*	
Patient.contact.address	0	1	
Patient.contact.gender	0	1	
Patient.contact.organization	0	1	

Patient.contact.period	0	1	
Patient.communication	0	*	Y
Patient.communication.id	0	1	
Patient.communication.extension	0	*	

Patient.communication.modifierExtension	0	*	
Patient.communication.language	1	1	Y
Patient.communication.preferred	0	1	
Patient.generalPractitioner	0	*	
Patient.managingOrganization	0	1	
Patient.link	0	*	

Patient.link.id	0	1	
Patient.link.extension	0	*	
Patient.link.modifierExtension	0	*	
Patient.link.other	1	1	
Patient.link.type	1	1	

Data Type(s)	FHIR Short Description
	Information about an individual or animal receiving health care services
string	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created
code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources

Extension	Extension
<p>(Complex) optional 'ombCategory', optional 'detailed' and a required 'text'. - 'ombCategory' component is optional, but allows for up to 5 races from ombCategory- race ValueSet (note this is denoted by the 0..5 cardinality on the 3.1.1 definition of us-core- race o When present, the structure will always following a 'coding' datatype, as denoted by 'valueCoding' - 'detailed' component is also optional, but may be present an infinite number of times, each 'detailed' containing one of the 917 race codes o When present,</p>	<p>US Core Race Extension</p>
<p>(Complex)</p>	<p>US Core ethnicity Extension</p>

code	Extension
Extension {http://hl7.org/fhir/u s/core/StructureDefi nition/us-core- genderIdentity}	Extension
Extension	Extensions that cannot be ignored
Identifier	An identifier for this patient
string	Unique id for inter-element referencing

Extension	Additional content defined by implementations
code	usual official temp secondary old (If known)
CodeableConcept	Description of identifier
uri	The namespace for the identifier value Example General: http://www.acme.com/identifiers/patient
string	The value that is unique within the system.
Period	Time period when id is/was valid for use
Reference(Organization)	Organization that issued id (may be just text)
boolean	Whether this patient's record is in active use

HumanName	A name associated with the patient us-core-8: Either Patient.name.given and/or Patient.name.family SHALL be present or a Data Absent Reason Extension SHALL be present.
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
code	usual official temp nickname anonymous old maiden
string	Text representation of the full name
string	Family name (often called 'Surname')
string	Given names (not always 'first'). Includes middle names This repeating element order: Given Names appear in the correct order for presenting the name
string	Parts that come before the name This repeating element order: Prefixes appear in the correct order for presenting the name

string	Parts that come after the name This repeating element order: Suffixes appear in the correct order for presenting the name
Period	Time period when name was/is in use
ContactPoint	A contact detail for the individual
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
code	phone fax email pager url sms other
string	The actual contact point details
code	home work temp old mobile - purpose of this contact point
positiveInt	Specify preferred order of use (1 = highest)
Period	Time period when the contact point was/is in use
code	male female other unknown
date	The date of birth for the individual

boolean dateTime	Indicates if the individual is deceased or not
Address	An address for the individual
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
code	home work temp old billing - purpose of this address
code	home postal physical both
string	Text representation of the address
string	Street name, number, direction & P.O. Box etc. This repeating element order: The order in which lines should appear in an address label
string	Name of city, town etc.
string	District name (aka county)
string	Sub-unit of country (abbreviations ok)
string	US Zip Codes

string	Country (e.g. can be ISO 3166 2 or 3 letter code)
Period	Time period when address was/is in use
CodeableConcept	Marital (civil) status of a patient
boolean integer	Whether patient is part of a multiple birth
Attachment	Image of the patient
BackboneElement	A contact party (e.g. guardian, partner, friend) for the patient
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
CodeableConcept	The kind of relationship
HumanName	A name associated with the contact person
ContactPoint	A contact detail for the person
Address	Address for the contact person
code	male female other unknown
Reference(Organization)	Organization that is associated with the contact

Period	The period during which this contact person or organization is valid to be contacted relating to this patient
BackboneElement	A language which may be used to communicate with the patient about his or her health
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
CodeableConcept	The language which can be used to communicate with the patient about his or her health
boolean	Language preference indicator
Reference(Organization Practitioner PractitionerRole)	Patient's nominated primary care provider
Reference(Organization)	Organization that is the custodian of the patient record
BackboneElement	Link to another patient resource that concerns the same actual person

string	Unique id for inter-element referencing
Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored even if unrecognized
Reference(Patient RelatedPerson)	The other patient or related person resource that the link refers to
code	replaced-by replaces refer seealso

FHIR Definition	Binding Strength	Binding Description
The US Core Patient Profile is based upon the core FHIR Patient Resource and designed to meet the applicable patient demographic data elements from the 2015 Edition Common Clinical Data Set.		
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.		
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.		
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.		
The base language in which the resource is written.	preferred	A human language.
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.		
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.		

An Extension		
<p>Concepts classifying the person into a named category of humans sharing common history, traits, geographical origin or nationality. The race codes used to represent these concepts are based upon the [CDC Race and Ethnicity Code Set Version 1.0] (http://www.cdc.gov/phn/resources/vocabulary/index.html) which includes over 900 concepts for representing race and ethnicity of which 921 reference race. The race concepts are grouped by and pre-mapped to the 5 OMB race categories:</p> <ul style="list-style-type: none"> - American Indian or Alaska Native - Asian - Black or African American - Native Hawaiian or Other Pacific Islander - White. 		US Core Race Extension
<p>Concepts classifying the person into a named category of humans sharing common history, traits, geographical origin or nationality. The ethnicity codes used to represent these concepts are based upon the [CDC ethnicity and Ethnicity Code Set Version 1.0] (http://www.cdc.gov/phn/resources/vocabulary/index.html) which includes over 900 concepts for representing race and ethnicity of which 43 reference ethnicity. The ethnicity concepts are grouped by and pre-mapped to the 2 OMB ethnicity categories: - Hispanic or Latino - Not Hispanic or Latino.</p>		US Core ethnicity Extension

<p>A code classifying the person's sex assigned at birth as specified by the [Office of the National Coordinator for Health IT (ONC)](https://www.healthit.gov/newsroom/about-onc).</p>	required	Birth Sex
<p>An Extension</p>		
<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>An identifier for this patient.</p>		
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>		

<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>The purpose of this identifier.</p>	<p>required</p>	<p>Identifier Use</p>
<p>A coded type for the identifier that can be used to determine which identifier to use for a specific purpose.</p>	<p>extensible</p>	<p>Identifier Type Codes</p>
<p>Establishes the namespace for the value - that is, a URL that describes a set values that are unique.</p>		
<p>The portion of the identifier typically relevant to the user and which is unique within the context of the system.</p>		
<p>Time period during which identifier is/was valid for use.</p>		
<p>Organization that issued/manages the identifier.</p>		
<p>Whether this patient record is in active use. Many systems use this property to mark as non-current patients, such as those that have not been seen for a period of time based on an organization's business rules.</p> <p>It is often used to filter patient lists to exclude inactive patients</p> <p>Deceased patients may also be marked as inactive for the same reasons, but may be active for some time after death.</p>		

A name associated with the individual.		
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		
May be <i>used to represent additional information that is not part of the basic definition of the element.</i> To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.		
Identifies the purpose for this name.	required	NameUse
Specifies the entire name as it should be displayed e.g. on an application UI. This may be provided instead of or as well as the specific parts.		
The part of a name that links to the genealogy. In some cultures (e.g. Eritrea) the family name of a son is the first name of his father.		
Given name.		
Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the start of the name.		

Part of the name that is acquired as a title due to academic, legal, employment or nobility status, etc. and that appears at the end of the name.		
Indicates the period of time when this name was valid for the named person.		
A contact detail (e.g. a telephone number or an email address) by which the individual may be contacted.		
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.		
Telecommunications form for contact point - what communications system is required to make use of the contact.	required	ContactPointSystem
The actual contact point details, in a form that is meaningful to the designated communication system (i.e. phone number or email address).		
Identifies the purpose for the contact point.	required	ContactPointUse
Specifies a preferred order in which to use a set of contacts. ContactPoints with lower rank values are more preferred than those with higher rank values.		
Time period when the contact point was/is in use.		
Administrative Gender - the gender that the patient is considered to have for administration and record keeping purposes.	required	AdministrativeGender
The date of birth for the individual.		

Indicates if the individual is deceased or not.		
An address for the individual.		
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		
May be <i>used to represent additional information that is not part of the basic definition of the element.</i> To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.		
The purpose of this address.	required	AddressUse
Distinguishes between physical addresses (those you can visit) and mailing addresses (e.g. PO Boxes and care-of addresses). Most addresses are both.	required	AddressType
Specifies the entire address as it should be displayed e.g. on a postal label. This may be provided instead of or as well as the specific parts.		
This component contains the house number, apartment number, street name, street direction, P.O. Box number, delivery hints, and similar address information.		
The name of the city, town, suburb, village or other community or delivery center.		
The name of the administrative area (county).		
Sub-unit of a country with limited sovereignty in a federally organized country. A code may be used if codes are in common use (e.g. US 2 letter state codes).	extensible	USPS Two Letter Alphabetic Codes
A postal code designating a region defined by the postal service.		

Country - a nation as commonly understood or generally accepted.		
Time period when address was/is in use.		
This field contains a patient's most recent marital (civil) status.	extensible	Marital Status Codes
Indicates whether the patient is part of a multiple (boolean) or indicates the actual birth order (integer).		
Image of the patient.		
A contact party (e.g. guardian, partner, friend) for the patient.		
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.		
May be <i>used to represent additional information that is not part of the basic definition of the element.</i> To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.		

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>The nature of the relationship between the patient and the contact person.</p>	<p>extensible</p>	<p>The nature of the relationship between a patient and a contact person for that patient.</p>
<p>A name associated with the contact person.</p>		
<p>A contact detail for the person, e.g. a telephone number or an email address.</p>		
<p>Address for the contact person.</p>		
<p>Administrative Gender - the gender that the contact person is considered to have for administration and record keeping purposes.</p>	<p>required</p>	<p>The gender of a person used for administrative purposes.</p>
<p>Organization on behalf of which the contact is acting or for which the contact is working.</p>		

<p>The period during which this contact person or organization is valid to be contacted relating to this patient.</p>		
<p>A language which may be used to communicate with the patient about his or her health.</p>		
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. "en" for English, or "en-US" for American English versus "en-EN" for England English.</p>	<p>extensible</p>	
<p>Indicates whether or not the patient prefers this language (over other languages he masters up a certain level).</p>		
<p>Patient's nominated care provider.</p>		
<p>Organization that is the custodian of the patient record.</p>		
<p>Link to another patient resource that concerns the same actual patient.</p>		

<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>The other patient resource that the link refers to.</p>		
<p>The type of link between this patient resource and another patient resource.</p>	<p>required</p>	<p>LinkType</p>

Binding Value Set	cross-setting for all measures
	R [1..1]
	R [1..1]
	NRT
	NRT
http://hl7.org/fhir/ValueSet/languages	NRT
	NRT
	NRT

	NR
http://hl7.org/fhir/us/core/StructureDefinition	MS[0..*]
http://hl7.org/fhir/us/core/StructureDefinition	MS[0..*]

http://hl7.org/fhir/us/core/StructureDefinition	MS [0..1]
	MS [0..*]
	NRT
	R [1..*]
	NR

	NR
http://hl7.org/fhir/ValueSet/ident	MS[0..1]
http://hl7.org/fhir/ValueSet/ident	MS[0..1]
	NR
	R [1..1]
	MS [0..1]
	NR
	NR

	R [1..*]
	NR
	NR
http://hl7.org/fhir/ValueSet/name	MS[0..1]
	MS[0..1]
	MS[0..1]
	MS[0..*]
	MS[0..*]

	MS[0..*]
	MS[0..1]
	MS[0..*]
	NRT
	NRT
http://hl7.org/fhir/ValueSet/cont	R [1..1]
	R [1..1]
http://hl7.org/fhir/ValueSet/cont	MS[0..1]
	MS[0..1]
http://hl7.org/fhir/ValueSet/admi	R [1..1]
	R [1..1]

	MS[0..1]
	MS[0..*]
	NR
	NR
http://hl7.org/fhir/ValueSet/address	MS[0..1]
http://hl7.org/fhir/ValueSet/address	MS[0..1]
	MS[0..1]
	MS[0..*]
	MS[0..1]
	MS[0..1]
http://hl7.org/fhir/us/core/ValueSet/us-core-usps-state	MS[0..1]
	MS[0..1]

	MS[0..1]
	MS[0..1]
http://hl7.org/fhir/ValueSet/marital-status	NR
	NR
	NR
	MS[0..*]
	NR
	NR

	NRT
http://hl7.org/fhir/ValueSet/patient	MS[0..*]
	MS[0..1]
	MS[0..*]
	MS[0..1]
http://hl7.org/fhir/ValueSet/administrative-gender 4.0.1	NR
	NR

	MS[0..1)
	MS[0..*]
	NR
	NR

	NRT
http://hl7.org/fhir/us/core/ValueSet	R [1..1]
	MS[0..1]
	NR
	NR
	MS[0..*]

	MS [0..*]
	MS [0..*]
	MS [0..*]
	R [1..1]
http://hl7.org/fhir/ValueSet/link-t	R [1..1]

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FHIR Path	Min	Max	Must Support?
Procedure	0	*	
Procedure.id	0	1	
Procedure.meta	0	1	
Procedure.implicitRules	0	1	

Procedure.language	0	1	
Procedure.text	0	1	
Procedure.contained	0	*	

Procedure.extension	0	*	
Procedure.modifierExtension	0	*	

Procedure.identifier	0	*	
Procedure.instantiatesCanonical	0	*	
Procedure.instantiatesUri	0	*	
Procedure.basedOn	0	*	
Procedure.partOf	0	*	

Procedure.status	1	1	Y
Procedure.statusReason	0	1	
Procedure.category	0	1	
Procedure.code	1	1	Y
Procedure.subject	1	1	Y
Procedure.encounter	0	1	

Procedure.performed[x]	1	1	Y
Procedure.recorder	0	1	
Procedure.asserter	0	1	
Procedure.performer	0	*	
Procedure.performer.id	0	1	
Procedure.performer.extension	0	*	

Procedure.performer.modifierExtension	0	*	
Procedure.performer.function	0	1	
Procedure.performer.actor	1	1	
Procedure.performer.onBehalfOf	0	1	
Procedure.location	0	1	

Procedure.reasonCode	0	*	
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Procedure.reasonReference	0	*	
Procedure.bodySite	0	*	
Procedure.outcome	0	1	
Procedure.report	0	*	

Procedure.complication	0	*	
Procedure.complicationDetail	0	*	
Procedure.followUp	0	*	
Procedure.note	0	*	
Procedure.focalDevice	0	*	
Procedure.focalDevice.id	0	1	
Procedure.focalDevice.extension	0	*	

Procedure.focalDevice.modifierExtension	0	*	
Procedure.focalDevice.action	0	1	
Procedure.focalDevice.manipulated	1	1	
Procedure.usedReference	0	*	
Procedure.usedCode	0	*	

Data Type(s)	FHIR Short Description
	An action that is being or was performed on a patient
string	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created

code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources

Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored

Identifier	External Identifiers for this procedure
canonical(PlanDefinition ActivityDefinition Measure OperationDefinition Questionnaire)	Instantiates FHIR protocol or definition
uri	Instantiates external protocol or definition
Reference(CarePlan ServiceRequest)	A request for this procedure
Reference(Procedure Observation MedicationAdministration)	Part of referenced event

code	preparation in-progress not-done on-hold stopped completed entered-in-error unknown
CodeableConcept	Reason for current status
CodeableConcept	Classification of the procedure
CodeableConcept	Identification of the procedure
Reference(http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient)	Who the procedure was performed on
Reference(Encounter)	Encounter created as part of

dateTime Period string Age Range	When the procedure was performed
Reference(Patient RelatedPerson Practitioner PractitionerRole)	Who recorded the procedure
Reference(Patient RelatedPerson Practitioner PractitionerRole)	Person who asserts this procedure
BackboneElement	The people who performed the procedure
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
CodeableConcept	Type of performance
Reference(Practitioner PractitionerRole Organization Patient RelatedPerson Device)	The reference to the practitioner
Reference(Organization)	Organization the device or practitioner was acting for
Reference(Location)	Where the procedure happened

CodeableConcept	Coded reason procedure performed

Reference(Condition Observation Procedure DiagnosticReport DocumentReference)	The justification that the procedure was performed
CodeableConcept	Target body sites
CodeableConcept	The result of procedure
Reference(DiagnosticReport DocumentReference Composition)	Any report resulting from the procedure

CodeableConcept	Complication following the procedure
Reference(Condition)	A condition that is a result of the procedure
CodeableConcept	Instructions for follow up
Annotation	Additional information about the procedure
BackboneElement	Manipulated, implanted, or removed device
string	Unique id for inter-element referencing
Extension	Additional content defined by implementations

Extension	Extensions that cannot be ignored even if unrecognized
CodeableConcept	Kind of change to device
Reference(Device)	Device that was changed
Reference(Device Medication Substance)	Items used during procedure
CodeableConcept	Coded items used during the procedure

FHIR Definition	Comments
<p>The US Core Condition Profile is based upon the core FHIR Procedure Resource and created to meet the 2015 Edition Common Clinical Data Set 'Procedures' requirements.</p>	
<p>The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.</p>	<p>The only time that a resource does not have an id is when it is being submitted to the server using a create operation.</p>
<p>The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.</p>	
<p>A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.</p>	<p>Asserting this rule set restricts the content to be only understood by a limited set of trading partners. This inherently limits the usefulness of the data in the long term. However, the existing health eco-system is highly fractured, and not yet ready to define, collect, and exchange data in a generally computable sense. Wherever possible, implementers and/or specification writers should avoid using this element. Often, when used, the URL is a reference to an implementation guide that defines these special rules as part of it's narrative along with other profiles, value sets, etc.</p>

<p>The base language in which the resource is written.</p>	<p>Language is provided to support indexing and accessibility (typically, services such as text to speech use the language tag). The html language tag in the narrative applies to the narrative. The language tag on the resource may be used to specify the language of other presentations generated from the data in the resource. Not all the content has to be in the base language. The Resource.language should not be assumed to apply to the narrative automatically. If a language is specified, it should it also be specified on the div element in the html (see rules in HTML5 for information about the relationship between xml:lang and the html lang attribute).</p>
<p>A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.</p>	<p>Contained resources do not have narrative. Resources that are not contained SHOULD have a narrative. In some cases, a resource may only have text with little or no additional discrete data (as long as all minOccurs=1 elements are satisfied). This may be necessary for data from legacy systems where information is captured as a "text blob" or where text is additionally entered raw or narrated and encoded information is added later.</p>
<p>These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.</p>	<p>This should never be done when the content can be identified properly, as once identification is lost, it is extremely difficult (and context dependent) to restore it again. Contained resources may have profiles and tags In their meta elements, but SHALL NOT have security labels.</p>

<p>May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

<p>Business identifiers assigned to this procedure by the performer or other systems which remain constant as the resource is updated and is propagated from server to server.</p>	<p>This is a business identifier, not a resource identifier (see [discussion] (http://hl7.org/fhir/R4/resource.html#identifiers)). It is best practice for the identifier to only appear on a single resource instance, however business practices may occasionally dictate that multiple resource instances with the same identifier can exist - possibly even with different resource types. For example, multiple Patient and Person resource instances might share the same social insurance number.</p>
<p>The URL pointing to a FHIR-defined protocol, guideline, order set or other definition that is adhered to in whole or in part by this Procedure.</p>	
<p>The URL pointing to an externally maintained protocol, guideline, order set or other definition that is adhered to in whole or in part by this Procedure.</p>	<p>This might be an HTML page, PDF, etc. or could just be a non-resolvable URI identifier.</p>
<p>A reference to a resource that contains details of the request for this procedure.</p>	
<p>A larger event of which this particular procedure is a component or step.</p>	<p>The MedicationAdministration resource has a partOf reference to Procedure, but this is not a circular reference. For example, the anesthesia MedicationAdministration is part of the surgical Procedure (MedicationAdministration.partOf = Procedure). For example, the procedure to insert the IV port for an IV medication administration is part of the medication administration (Procedure.partOf = MedicationAdministration).</p>

<p>A code specifying the state of the procedure. Generally, this will be the in-progress or completed state.</p>	<p>The "unknown" code is not to be used to convey other statuses. The "unknown" code should be used when one of the statuses applies, but the authoring system doesn't know the current state of the procedure.</p> <p>This element is labeled as a modifier because the status contains codes that mark the resource as not currently valid.</p>
<p>Captures the reason for the current state of the procedure.</p>	<p>This is generally only used for "exception" statuses such as "not-done", "suspended" or "aborted". The reason for performing the event at all is captured in reasonCode, not here.</p>
<p>A code that classifies the procedure for searching, sorting and display purposes (e.g. "Surgical Procedure").</p>	
<p>The specific procedure that is performed. Use text if the exact nature of the procedure cannot be coded (e.g. "Laparoscopic Appendectomy").</p>	
<p>The person, animal or group on which the procedure was performed.</p>	
<p>The Encounter during which this Procedure was created or performed or to which the creation of this record is tightly associated.</p>	<p>This will typically be the encounter the event occurred within, but some activities may be initiated prior to or after the official completion of an encounter but still be tied to the context of the encounter.</p>

<p>Estimated or actual date, date-time, period, or age when the procedure was performed. Allows a period to support complex procedures that span more than one date, and also allows for the length of the procedure to be captured.</p>	<p>Age is generally used when the patient reports an age at which the procedure was performed. Range is generally used when the patient reports an age range when the procedure was performed, such as sometime between 20-25 years old. dateTime supports a range of precision due to some procedures being reported as past procedures that might not have millisecond precision while other procedures performed and documented during the encounter might have more precise UTC timestamps with timezone.</p>
<p>Individual who recorded the record and takes responsibility for its content.</p>	
<p>Individual who is making the procedure statement.</p>	
<p>Limited to "real" people rather than equipment.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>Distinguishes the type of involvement of the performer in the procedure. For example, surgeon, anaesthetist, endoscopist.</p>	
<p>The practitioner who was involved in the procedure.</p>	
<p>The organization the device or practitioner was acting on behalf of.</p>	
<p>The location where the procedure actually happened. E.g. a newborn at home, a tracheostomy at a restaurant.</p>	

<p>The coded reason why the procedure was performed. This may be a coded entity of some type, or may simply be present as text.</p>	<p>Use Procedure.reasonCode when a code sufficiently describes the reason. Use Procedure.reasonReference when referencing a resource, which allows more information to be conveyed, such as onset date. Procedure.reasonCode and Procedure.reasonReference are not meant to be duplicative. For a single reason, either Procedure.reasonCode or Procedure.reasonReference can be used. Procedure.reasonCode may be a summary code, or Procedure.reasonReference may be used to reference a very precise definition of the reason using Condition Observation Procedure DiagnosticReport DocumentReference. Both Procedure.reasonCode and Procedure.reasonReference can be used if they are describing different reasons for the procedure.</p>
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<p>The justification of why the procedure was performed.</p>	<p>It is possible for a procedure to be a reason (such as C-Section) for another procedure (such as an epidural). Other examples include endoscopy for dilatation and biopsy (a combination of diagnostic and therapeutic use). Use Procedure.reasonCode when a code sufficiently describes the reason. Use Procedure.reasonReference when referencing a resource, which allows more information to be conveyed, such as onset date. Procedure.reasonCode and Procedure.reasonReference are not meant to be duplicative. For a single reason, either Procedure.reasonCode or Procedure.reasonReference can be used. Procedure.reasonCode may be a summary code, or Procedure.reasonReference may be used to reference a very precise definition of the reason using Condition Observation Procedure DiagnosticReport DocumentReference. Both Procedure.reasonCode and Procedure.reasonReference can be used if they are describing different reasons for the procedure.</p>
<p>Detailed and structured anatomical location information. Multiple locations are allowed - e.g. multiple punch biopsies of a lesion.</p>	<p>If the use case requires attributes from the BodySite resource (e.g. to identify and track separately) then use the standard extension [procedure-targetbodystructure] (http://hl7.org/fhir/R4/extension-procedure-targetbodystructure.html).</p>
<p>The outcome of the procedure - did it resolve the reasons for the procedure being performed?</p>	<p>If outcome contains narrative text only, it can be captured using the CodeableConcept.text.</p>
<p>This could be a histology result, pathology report, surgical report, etc.</p>	<p>There could potentially be multiple reports - e.g. if this was a procedure which took multiple biopsies resulting in a number of anatomical pathology reports.</p>

<p>Any complications that occurred during the procedure, or in the immediate post-performance period. These are generally tracked separately from the notes, which will typically describe the procedure itself rather than any 'post procedure' issues.</p>	<p>If complications are only expressed by the narrative text, they can be captured using the CodeableConcept.text.</p>
<p>Any complications that occurred during the procedure, or in the immediate post-performance period.</p>	
<p>If the procedure required specific follow up - e.g. removal of sutures. The follow up may be represented as a simple note or could potentially be more complex, in which case the CarePlan resource can be used.</p>	
<p>Any other notes and comments about the procedure.</p>	
<p>A device that is implanted, removed or otherwise manipulated (calibration, battery replacement, fitting a prosthesis, attaching a wound-vac, etc.) as a focal portion of the Procedure.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>

<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	<p>There can be no stigma associated with the use of extensions by any application, project, or standard - regardless of the institution or jurisdiction that uses or defines the extensions. The use of extensions is what allows the FHIR specification to retain a core level of simplicity for everyone.</p>
<p>The kind of change that happened to the device during the procedure.</p>	
<p>The device that was manipulated (changed) during the procedure.</p>	
<p>Identifies medications, devices and any other substance used as part of the procedure.</p>	<p>For devices actually implanted or removed, use Procedure.device.</p>
<p>Identifies coded items that were used as part of the procedure.</p>	<p>For devices actually implanted or removed, use Procedure.device.</p>

Binding Strength	Binding Description	Binding Value Set	RPS
			MS [0..*]
			R [1..1]
			NRT
			NRT

preferred	A human language.	http://hl7.org/fhir/ValueSet	NRT
			NRT
			NRT

			NRT
			NRT

			NRT
			NR
			NR
			NR
			NR

required		http://hl7.org/fhir/R4	R [1..1]
example	A code that identifies the reason a procedure was not performed.	http://hl7.org/fhir/ValueSet	NR
example	A code that classifies a procedure for searching, sorting and display purposes.	http://hl7.org/fhir/ValueSet	NR
extensible	Codes describing the type of Procedure	https://hl7.org/fhir/ValueSet	R [1..1]
			R [1..1]
			MS [0..1]

			R [1..1]
			NR
			NR
			NR
			NRT
			NRT

			NRT
example	A code that identifies the role of a performer of the procedure.	http://hl7.org/fhir/ValueSet/performer-role	NR
			NR
			NR
			MS [0..1]

example	A code that identifies the reason a procedure is required.	http://hl7.org/fhir/Va	NR
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			NR
example	Codes describing anatomical locations. May include laterality.	http://hl7.org/fhir/ValueSet/procedure-outcome	NR
example	An outcome of a procedure - whether it was resolved or otherwise.	http://hl7.org/fhir/ValueSet/procedure-outcome	NR
			NR

example	Codes describing complications that resulted from a procedure.	http://hl7.org/fhir/ValueSet/condition-code	NR
			NR
example	Specific follow up required for a procedure e.g. removal of sutures.	http://hl7.org/fhir/ValueSet/procedure-followup	NR
			NR
			NR
			NRT
			NRT

			NRT
preferred	A kind of change that happened to the device during the procedure.	http://hl7.org/fhir/ValueSet/procedure-device-change	NR
			NR
			NR
example	Codes describing items used during a procedure.	http://hl7.org/fhir/ValueSet/procedure-device	NR

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FHIR Path	Min	Max
ServiceRequest	0	*
ServiceRequest.id	0	1
ServiceRequest.meta	0	1
ServiceRequest.implicitRules	0	1
ServiceRequest.language	0	1
ServiceRequest.text	0	1
ServiceRequest.contained	0	*

ServiceRequest.extension	0	*
ServiceRequest.modifierExtension	0	*
ServiceRequest.identifier	0	*
ServiceRequest.instantiatesCanonical	0	*
ServiceRequest.instantiatesUri	0	*

ServiceRequest.basedOn	0	*
ServiceRequest.replaces	0	*
ServiceRequest.requisition	0	1
ServiceRequest.status	1	1
ServiceRequest.intent	1	1
ServiceRequest.category	0	*
ServiceRequest.priority	0	1
ServiceRequest.doNotPerform	0	1
ServiceRequest.code	0	1
ServiceRequest.orderDetail	0	*
ServiceRequest.quantity[x]	0	1

ServiceRequest.subject	1	1
ServiceRequest.encounter	0	1
ServiceRequest.occurrence[x]	0	1
ServiceRequest.asNeeded[x]	0	1
ServiceRequest.authoredOn	0	1
ServiceRequest.requester	0	1
ServiceRequest.performerType	0	1
ServiceRequest.performer	0	*
ServiceRequest.locationCode	0	*
ServiceRequest.locationReference	0	*
ServiceRequest.reasonCode	0	*

ServiceRequest.reasonReference	0	*
ServiceRequest.insurance	0	*
ServiceRequest.supportingInfo	0	*
ServiceRequest.specimen	0	*
ServiceRequest.bodySite	0	*
ServiceRequest.note	0	*
ServiceRequest.patientInstruction	0	1
ServiceRequest.relevantHistory	0	*

Data Type(s)	FHIR Short Description
	A request for a service to be performed
id	Logical id of this artifact
Meta	Metadata about the resource
uri	A set of rules under which this content was created
code	Language of the resource content
Narrative	Text summary of the resource, for human interpretation
Resource	Contained, inline Resources

Extension	Additional content defined by implementations
Extension	Extensions that cannot be ignored
Identifier	Identifiers assigned to this order
canonical(ActivityDefinition PlanDefinition)	Instantiates FHIR protocol or definition
uri	Instantiates external protocol or definition

Reference(CarePlan ServiceRequest MedicationRequest)	What request fulfills
Reference(ServiceRequest)	What request replaces
Identifier	Composite Request ID
code	draft active on-hold revoked completed entered-in-error unknown
code	proposal plan directive order original-order reflex-order filler-order instance-order option
CodeableConcept	Classification of service
code	routine urgent asap stat
boolean	True if service/procedure should not be performed
CodeableConcept	What is being requested/ordered
CodeableConcept	Additional order information
Quantity RatioRange	Service amount

Reference(Patient Group Location Device)	Individual or Entity the service is ordered for
Reference(Encounter)	Encounter in which the request was created
dateTime Period Timing	When service should occur
boolean CodeableConcept	Preconditions for service
dateTime	Date request signed
Reference(Practitioner PractitionerRole Organization Patient RelatedPerson Device)	Who/what is requesting service
CodeableConcept	Performer role
Reference(Practitioner PractitionerRole Organization CareTeam HealthcareService Patient Device RelatedPerson)	Requested performer
CodeableConcept	Requested location
Reference(Location)	Requested location
CodeableConcept	Explanation/Justification for procedure or service

Reference(Condition Observation DiagnosticReport DocumentReference)	Explanation/Justification for service or service
Reference(Coverage ClaimResponse)	Associated insurance coverage
Reference(Resource)	Additional clinical information
Reference(Specimen)	Procedure Samples
CodeableConcept	Location on Body
Annotation	Comments
string	Patient or consumer-oriented instructions
Reference(Provenance)	Request provenance

FHIR Definition	Binding Strength	Binding Description
A record of a request for service such as diagnostic investigations, treatments, or operations to be performed.		
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.		
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.		
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.		
The base language in which the resource is written.	preferred	Common Languages
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.		
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.		

<p>May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>		
<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>		
<p>Identifiers assigned to this order instance by the orderer and/or the receiver and/or order fulfiller.</p>		
<p>The URL pointing to a FHIR-defined protocol, guideline, orderset or other definition that is adhered to in whole or in part by this ServiceRequest.</p>		
<p>The URL pointing to an externally maintained protocol, guideline, orderset or other definition that is adhered to in whole or in part by this ServiceRequest.</p>		

Plan/proposal/order fulfilled by this request.		
The request takes the place of the referenced completed or terminated request(s).		
A shared identifier common to all service requests that were authorized more or less simultaneously by a single author, representing the composite or group identifier.		
The status of the order.	required	RequestStatus
Whether the request is a proposal, plan, an original order or a reflex order.	required	RequestIntent
A code that classifies the service for searching, sorting and display purposes (e.g. "Surgical Procedure").	example	Service Request Category Codes
Indicates how quickly the ServiceRequest should be addressed with respect to other requests.	required	Request priority
Set this to true if the record is saying that the service/procedure should NOT be performed.		
A code that identifies a particular service (i.e., procedure, diagnostic investigation, or panel of investigations) that have been requested.	example	Procedure Codes (SNOMED CT)
Additional details and instructions about the how the services are to be delivered. For example, and order for a urinary catheter may have an order detail for an external or indwelling catheter, or an order for a bandage may require additional instructions specifying how the bandage should be applied.	example	Service Request Order Details Codes
An amount of service being requested which can be a quantity (for example \$1,500 home modification), a ratio (for example, 20 half day visits per month), or a range (2.0 to 1.8 Gy per fraction).		

On whom or what the service is to be performed. This is usually a human patient, but can also be requested on animals, groups of humans or animals, devices such as dialysis machines, or even locations (typically for environmental scans).		
An encounter that provides additional information about the healthcare context in which this request is made.		
The date/time at which the requested service should occur.		
If a CodeableConcept is present, it indicates the pre-condition for performing the service. For example "pain", "on flare-up", etc.	example	SNOMED CT Medication As Needed Reason Codes
When the request transitioned to being actionable.		
The individual who initiated the request and has responsibility for its activation.		
Desired type of performer for doing the requested service.	example	Participant Roles
The desired performer for doing the requested service. For example, the surgeon, dermatopathologist, endoscopist, etc.		
The preferred location(s) where the procedure should actually happen in coded or free text form. E.g. at home or nursing day care center.	example	V3 Value SetServiceDelivery LocationRoleType
A reference to the the preferred location(s) where the procedure should actually happen. E.g. at home or nursing day care center.		
An explanation or justification for why this service is being requested in coded or textual form. This is often for billing purposes. May relate to the resources referred to in `supportingInfo`.	example	Procedure Reason Codes

Indicates another resource that provides a justification for why this service is being requested. May relate to the resources referred to in `supportingInfo`.		
Insurance plans, coverage extensions, pre-authorizations and/or pre-determinations that may be needed for delivering the requested service.		
Additional clinical information about the patient or specimen that may influence the services or their interpretations. This information includes diagnosis, clinical findings and other observations. In laboratory ordering these are typically referred to as "ask at order entry questions (AOEs)". This includes observations explicitly requested by the producer (filler) to provide context or supporting information needed to complete the order. For example, reporting the amount of inspired oxygen for blood gas measurements.		
One or more specimens that the laboratory procedure will use.		
Anatomic location where the procedure should be performed. This is the target site.	example	SNOMED CT Body Structures
Any other notes and comments made about the service request. For example, internal billing notes.		
Instructions in terms that are understood by the patient or consumer.		
Key events in the history of the request.		

Binding Value Set	RPS
	MS [0..*]
	R [1..1]
	NRT
	NRT
http://hl7.org/fhir/ValueSet/language	NRT
	NRT
	NRT

	NRT
	NRT
	NRT
	NR
	NR

	NR
	NR
	NR
http://hl7.org/fhir/ValueSet/request	R [1..1]
http://hl7.org/fhir/ValueSet/request	R [1..1]
http://hl7.org/fhir/ValueSet/service	MS [0..*]
http://hl7.org/fhir/ValueSet/request	MS [0..1]
	MS [0..1]
http://hl7.org/fhir/ValueSet/procedure	MS [0..1]
https://hl7.org/fhir/R4/valueset-service	NR
	NR

	R [1..1]
	MS [0..1]
	MS [0..1]
http://hl7.org/fhir/ValueSet/medication-as-needed-reason	MS [0..1]
	R [1..1]
	NR
http://terminology.hl7.org/ValueSet/action-participant-role	NR
	NR
http://terminology.hl7.org/ValueSet/	NR
	NR
http://hl7.org/fhir/ValueSet/proced	NR

	MS [0..*]
	NR
	NR
	MS [0..*]
http://hl7.org/fhir/ValueSet/body-site	NR
	NR
	NR
	NR

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FHIR Path	Min	Max	Data Type(s)
Specimen	0	*	
Specimen.id	0	1	id
Specimen.meta	0	1	Meta
Specimen.implicitRules	0	1	uri
Specimen.language	0	1	code
Specimen.text	0	1	Narrative
Specimen.contained	0	*	Resource
Specimen.extension	0	*	Extension

Specimen.modifierExtension	0	*	Extension
Specimen.identifier	0	*	Identifier
Specimen.accessionIdentifier	0	1	Identifier
Specimen.status	0	1	code
Specimen.type	0	1	CodeableConcept
Specimen.subject	0	1	Reference(Patient Group Device Substance Location)
Specimen.receivedTime	0	1	dateTime
Specimen.parent	0	*	Reference(Specimen)
Specimen.request	0	*	Reference(ServiceReq uest)
Specimen.collection	0	1	BackboneElement
Specimen.collection.id	0	1	string

Specimen.collection.extension	0	*	Extension
Specimen.collection.modifierExtension	0	*	Extension
Specimen.collection.collector	0	1	Reference(Practitioner PractitionerRole)
Specimen.collection.collected[x]	0	1	dateTime Period
Specimen.collection.duration	0	1	Duration
Specimen.collection.quantity	0	1	Quantity {SimpleQuantity}
Specimen.collection.method	0	1	CodeableConcept
Specimen.collection.bodySite	0	1	CodeableConcept
Specimen.collection.fastingStatus[x]	0	1	CodeableConcept Duration

Specimen.processing	0	*	BackboneElement
Specimen.processing.id	0	1	string
Specimen.processing.extension	0	*	Extension
Specimen.processing.modifierExtension	0	*	Extension
Specimen.processing.description	0	1	string
Specimen.processing.procedure	0	1	CodeableConcept
Specimen.processing.additive	0	*	Reference(Substance)
Specimen.processing.time[x]	0	1	dateTime Period
Specimen.container	0	*	BackboneElement

Specimen.container.id	0	1	string
Specimen.container.extension	0	*	Extension
Specimen.container.modifierExtension	0	*	Extension
Specimen.container.identifier	0	*	Identifier
Specimen.container.description	0	1	string
Specimen.container.type	0	1	CodeableConcept
Specimen.container.capacity	0	1	Quantity {SimpleQuantity}
Specimen.container.specimenQuantity	0	1	Quantity {SimpleQuantity}
Specimen.container.additive[x]	0	1	CodeableConcept Reference(Substance)
Specimen.condition	0	*	CodeableConcept

Specimen.note	0	*	Annotation
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FHIR Short Description
Sample for analysis
Logical id of this artifact
Metadata about the resource
A set of rules under which this content was created
Language of the resource content
Text summary of the resource, for human interpretation
Contained, inline Resources
Additional content defined by implementations

Extensions that cannot be ignored
External Identifier
Identifier assigned by the lab
available unavailable unsatisfactory entered-in-error
Kind of material that forms the specimen
Where the specimen came from. This may be from patient(s), from a location (e.g., the source of an environmental sample), or a sampling of a substance or a device
The time when specimen was received for processing
Specimen from which this specimen originated
Why the specimen was collected
Collection details
Unique id for inter-element referencing

Additional content defined by implementations
Extensions that cannot be ignored even if unrecognized
Who collected the specimen
Collection time
How long it took to collect specimen
The quantity of specimen collected
Technique used to perform collection
Anatomical collection site
Whether or how long patient abstained from food and/or drink

Processing and processing step details
Unique id for inter-element referencing
Additional content defined by implementations
Extensions that cannot be ignored even if unrecognized
Textual description of procedure
Indicates the treatment step applied to the specimen
Material used in the processing step
Date and time of specimen processing
Direct container of specimen (tube/slide, etc.)

Unique id for inter-element referencing
Additional content defined by implementations
Extensions that cannot be ignored even if unrecognized
Id for the container
Textual description of the container
Kind of container directly associated with specimen
Container volume or size
Quantity of specimen within container
Additive associated with container
State of the specimen

Comments

FHIR Definition	Binding Strength
A sample to be used for analysis.	
The logical id of the resource, as used in the URL for the resource. Once assigned, this value never changes.	
The metadata about the resource. This is content that is maintained by the infrastructure. Changes to the content might not always be associated with version changes to the resource.	
A reference to a set of rules that were followed when the resource was constructed, and which must be understood when processing the content. Often, this is a reference to an implementation guide that defines the special rules along with other profiles etc.	
The base language in which the resource is written.	preferred
A human-readable narrative that contains a summary of the resource and can be used to represent the content of the resource to a human. The narrative need not encode all the structured data, but is required to contain sufficient detail to make it "clinically safe" for a human to just read the narrative. Resource definitions may define what content should be represented in the narrative to ensure clinical safety.	
These resources do not have an independent existence apart from the resource that contains them - they cannot be identified independently, and nor can they have their own independent transaction scope.	
May be used to represent additional information that is not part of the basic definition of the resource. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	

<p>May be used to represent additional information that is not part of the basic definition of the resource and that modifies the understanding of the element that contains it and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer is allowed to define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Id for specimen.</p>	
<p>The identifier assigned by the lab when accessioning specimen(s). This is not necessarily the same as the specimen identifier, depending on local lab procedures.</p>	
<p>The availability of the specimen.</p>	<p>required</p>
<p>The kind of material that forms the specimen.</p>	<p>example</p>
<p>Where the specimen came from. This may be from patient(s), from a location (e.g., the source of an environmental sample), or a sampling of a substance or a device.</p>	
<p>Time when specimen was received for processing or testing.</p>	
<p>Reference to the parent (source) specimen which is used when the specimen was either derived from or a component of another specimen.</p>	
<p>Details concerning a service request that required a specimen to be collected.</p>	
<p>Details concerning the specimen collection.</p>	
<p>Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.</p>	

<p>May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.</p>	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
<p>Person who collected the specimen.</p>	
<p>Time when specimen was collected from subject - the physiologically relevant time.</p>	
<p>The span of time over which the collection of a specimen occurred.</p>	
<p>The quantity of specimen collected; for instance the volume of a blood sample, or the physical measurement of an anatomic pathology sample.</p>	
<p>A coded value specifying the technique that is used to perform the procedure.</p>	<p>example</p>
<p>Anatomical location from which the specimen was collected (if subject is a patient). This is the target site. This element is not used for environmental specimens.</p>	<p>example</p>
<p>Abstinence or reduction from some or all food, drink, or both, for a period of time prior to sample collection.</p>	<p>extensible</p>

Details concerning processing and processing steps for the specimen.	
Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
<p>May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions.</p> <p>Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).</p>	
Textual description of procedure.	
A coded value specifying the procedure used to process the specimen.	example
Material used in the processing step.	
A record of the time or period when the specimen processing occurred. For example the time of sample fixation or the period of time the sample was in formalin.	
The container holding the specimen. The recursive nature of containers; i.e. blood in tube in tray in rack is not addressed here.	

Unique id for the element within a resource (for internal references). This may be any string value that does not contain spaces.	
May be used to represent additional information that is not part of the basic definition of the element. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension.	
May be used to represent additional information that is not part of the basic definition of the element and that modifies the understanding of the element in which it is contained and/or the understanding of the containing element's descendants. Usually modifier elements provide negation or qualification. To make the use of extensions safe and manageable, there is a strict set of governance applied to the definition and use of extensions. Though any implementer can define an extension, there is a set of requirements that SHALL be met as part of the definition of the extension. Applications processing a resource are required to check for modifier extensions. Modifier extensions SHALL NOT change the meaning of any elements on Resource or DomainResource (including cannot change the meaning of modifierExtension itself).	
Id for container. There may be multiple; a manufacturer's bar code, lab assigned identifier, etc. The container ID may differ from the specimen id in some circumstances.	
Textual description of the container.	
The type of container associated with the specimen (e.g. slide, aliquot, etc.).	example
The capacity (volume or other measure) the container may contain.	
The quantity of specimen in the container; may be volume, dimensions, or other appropriate measurements, depending on the specimen type.	
Introduced substance to preserve, maintain or enhance the specimen. Examples: Formalin, Citrate, EDTA.	example
A mode or state of being that describes the nature of the specimen.	extensible

To communicate any details or issues about the specimen or during the specimen collection. (for example: broken vial, sent with patient, frozen).	
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Binding Description	Binding Value Set	RPS
		MS [0..*]
		R [1..1]
		NRT
		NRT
Common Languages	http://hl7.org/fhir/ValueSet	NRT
		NRT
		NRT
		NRT

		NRT
		MS [0..*]
		MS [0..1]
SpecimenStatus	http://hl7.org/fhir/ValueSet	MS[0..1]
V2 Specimen Type	http://terminology.hl7.org/	R [1..1]
		MS [0..1]
		NR
		NR
		NR
		R [1..1]
		NRT

		NRT
		NRT
		NR
		R [1..1]
		NR
		NR
FHIR Specimen Collection Method	http://hl7.org/fhir/ValueSet	NR
SNOMED CT Body Structures	http://hl7.org/fhir/R4/value	R [1..1]
v2 Relevant Clinical Information	http://terminology.hl7.org/	NR

		NR
		NRT
		NRT
		NRT
		NR
Specimen processing procedure	https://hl7.org/fhir/R4/valueset-specimen-processing-procedure.html	NR
		NR
		NR
		NR

		NRT
		NRT
		NRT
		NRT
		NR
Specimen container	http://hl7.org/fhir/ValueSet	NR
		NR
		NR
v2 Additive	http://terminology.hl7.org/	NR
v2 Specimen Condition	http://terminology.hl7.org/	NR

		NR
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Valueset Name	Canonical URL	Description
Discharge disposition	http://terminology.hl7.org/ValueSet/encounter-discharge-disposition	This value set defines a set of codes that can be used to where the patient left the hospital.
Inpatient, Emergency, and Observation Locations	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1046.265	Set of codes that describe locations within a hospital
Encounter Inpatient	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.666.5.307	The purpose of this value set is to represent concepts of inpatient hospitalization encounters.
Observation Services	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.1147	The purpose of this value set is to represent concepts for encounters for observation in the inpatient setting.
COVID_19 (Tests for SARS_CoV_2 Nucleic Acid)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.1147	
COVID_19 (Tests for SARS_CoV_2 Antigen)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.1158	
Influenza (Tests for influenza A or B virus Nucleic Acid)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.336	
Influenza (Tests for influenza A or B virus Antigen)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.337	
RSV (Tests for RSV Antigen)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.1311	
RSV (Tests for RSV Nucleic Acid)	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113762.1.4.1146.1312	

Baricitinib	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2046
Anakinra	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2054
Sarilumab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2084
COVID19 RxNorm Value Set for Tocilizumab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2087
Casirivimab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2097
Imdevimab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2098
Bamlanivimab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2099
Etesevimab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2100
Sotrovimab	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2101
Tofacitinib	http://cts.nlm.nih.gov/fhir/ValueSet/2.16.840.1.113883.3.3616.200.110.102.2102

Casirivimab / Imdevimab	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2103
Molnupiravir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2119
Remdesivir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2081
Nirmatrelvir / Ritonavir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2104
Bebtelovimab	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2105
Baloxavir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113762.1.4.1190 .85
Peramivir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113762.1.4.1190 .86
Zanamivir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113762.1.4.1190 .87
Oseltamivir	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.3.3616.2 00.110.102.2078
Transmission Based Precaution Types	http://cts.nlm.nih.gov/fhir/ ValueSet/ 2.16.840.1.113883.10.20.22 .5.300

Multiple Code Systems?	CodeSystem Used	Measures Used In
No	http://terminology.hl7.org/CodeSystem/discharge-disposition	Hypo, RPS
No	https://www.cdc.gov/nhsn/cdaportal/terminology/codesystem/hspec.html	Hypo, CDI/HOB, RPS
No	http://snomed.info/sct	Hypo, CDI/HOB, RPS
No	http://snomed.info/sct	Hypo, CDI/HOB, RPS
No	http://loinc.org	RPS
No	http://loinc.org	RPS
No	http://loinc.org	RPS
No	http://loinc.org	RPS
No	http://loinc.org	RPS

No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http:// www.nlm.nih.gov/ research/umls/ rxnorm	RPS
No	http://snomed.info/ sct	RPS

MedicationRequest.medication,
MedicationAdministration.medi
cation, Medication.code

MedicationRequest.medication,
MedicationAdministration.medi
cation, Medication.code

MedicationRequest.medication,
MedicationAdministration.medi
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MedicationRequest.medication,
MedicationAdministration.medi
cation, Medication.code

MedicationRequest.medication,
MedicationAdministration.medi
cation, Medication.code

Procedure.code

Reference Name

Clinical Impression
RelatedPerson
RelatedPerson
Related Person
Contract
US Core Practitioner
ImmunizationRecommendation
Account
CarePlan
DeviceRequest
ImmunizationRecommendation
NutritionOrder
MedicationDispense
MedicationStatement
Immunization
ImagingStudy
Practitioner
PractitionerRole
CareTeam
RelatedPerson
DeviceMetric
QuestionnaireResponse
MolecularSequence
DocumentReference
ImagingStudy
Media
QuestionnaireResponse
MolecularSequence
Endpoint
Group
Practitioner
PractitionerRole
RelatedPerson
Provenance
CarePlan
ImmunizationRecommendation
NutritionOrder
MedicationDispense
MedicationStatement
Immunization
ImagingStudy
QuestionnaireResponse
MolecularSequence
CarePlan
Group
Practitioner
PractitionerRole
RelatedPerson
Practitioner
PractitionerRole
CareTeam
HealthcareService
RelatedPerson

ClaimResponse
Provenance
Substance

FHIR Data Element

Condition.stage.assessment
Coverage.policyHolder
Coverage.subscriber
Coverage.payor
Coverage.contract
Encounter.participant.individual
Encounter.reasonReference
Encounter.account
Observation.basedOn (Lab Result Observation)
Observation.basedOn (Lab Result Observation)
Observation.basedOn (Lab Result Observation)
Observation.basedOn (Lab Result Observation)
Observation.partOf (Lab Result Observation)
Observation.partOf (Lab Result Observation)
Observation.partOf (Lab Result Observation)
Observation.partOf (Lab Result Observation)
Observation.performer (Lab Result Observation)
Observation.performer (Lab Result Observation)
Observation.performer (Lab Result Observation)
Observation.performer (Lab Result Observation)
Observation.device (Lab Result Observation)
Observation.hasMember (Lab Result Observation)
Observation.hasMember (Lab Result Observation)
Observation.derivedFrom (Lab Result Observation)
Observation.derivedFrom (Lab Result Observation)
Observation.derivedFrom (Lab Result Observation)
Observation.derivedFrom (Lab Result Observation)
Observation.derivedFrom (Lab Result Observation)
Location.endpoint
MedicationAdministration.subject
MedicationAdministration.performer.actor
MedicationAdministration.performer.actor
MedicationAdministration.performer.actor
MedicationAdministration.eventHistory
Observation.basedOn (Observation-Vital Signs R4)
Observation.basedOn (Observation-Vital Signs R4)
Observation.basedOn (Observation-Vital Signs R4)
Observation.partOf (Observation-Vital Signs R4)
Observation.partOf (Observation-Vital Signs R4)
Observation.partOf (Observation-Vital Signs R4)
Observation.partOf (Observation-Vital Signs R4)
Observation.hasMember(Observation-Vital Signs R4)
Observation.hasMember(Observation-Vital Signs R4)
ServiceRequest.basedOn
ServiceRequest.subject
ServiceRequest.requester
ServiceRequest.requester
ServiceRequest.requester
ServiceRequest.performer
ServiceRequest.performer
ServiceRequest.performer
ServiceRequest.performer
ServiceRequest.performer

ServiceRequest.insurance
ServiceRequest.relevantHistory
Specimen.container.additive[x]

Property
URL
Version
Name
Title
Status
Experimental
Date
Publisher
Contact
Jurisdiction
Description
Purpose
Copyright
FHIR Version
Kind
Type
Base Definition
Abstract
Derivation

Property
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Version
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Version
Name
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Status
Experimental
Date
Publisher
Contact
Contact
Description
Purpose
Copyright

FHIR Version
Kind
Type
Base Definition
Abstract
Derivation

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition>

4.1.0

USCoreCondition

US Core Condition Profile

active

false

2020-06-27

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines constraints and extensions on the Condition resource for the minimal set of data to query concerns information.

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4.0.1

resource

Condition

<http://hl7.org/fhir/StructureDefinition/Condition>

false

constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition>

4.1.0

USCoreCondition

US Core Condition Profile

active

false

2020-06-27

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines constraints and extensions on the Condition resource for the minimal set of data to query concerns information.

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4.0.1

resource

Condition

<http://hl7.org/fhir/StructureDefinition/Condition>

false

constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-documentreference>

4.1.0

USCoreDocumentReferenceProfile

US Core DocumentReference Profile

active

false

2020-07-02

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America
The document reference profile used in US Core.
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4.0.1
resource
DocumentReference
http://hl7.org/fhir/StructureDefinition/DocumentReference
false
constraint

Value
http://hl7.org/fhir/us/core/StructureDefinition/us-core-encounter
4.1.0
USCoreEncounterProfile
US Core Encounter Profile
active
false
2019-05-21
HL7 International - Cross-Group Projects
No display for ContactDetail
United States of America
The Encounter referenced in the US Core profiles.
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4.0.1
resource
Encounter
http://hl7.org/fhir/StructureDefinition/Encounter
false
constraint

Value
http://hl7.org/fhir/us/core/StructureDefinition/us-core-immunization
4.1.0
USCoreImmunizationProfile
US Core Immunization Profile
active
false
2019-08-26
HL7 International - Cross-Group Projects
No display for ContactDetail
United States of America
Defines constraints and extensions on the Immunization resource for the minimal set of data to query information.
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4.0.1
resource
Immunization
http://hl7.org/fhir/StructureDefinition/Immunization
false
constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-location>

4.1.0

USCoreLocation

US Core Location Profile

active

false

2019-05-21

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines basic constraints and extensions on the Location resource for use with other US Core resour

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4.0.1

resource

Location

<http://hl7.org/fhir/StructureDefinition/Location>

false

constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication>

4.1.0

USCoreMedicationProfile

US Core Medication Profile

active

false

2019-05-21

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines constraints and extensions on the Medication resource for the minimal set of data to query medication information.

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4.0.1

resource

Medication

<http://hl7.org/fhir/StructureDefinition/Medication>

false

constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest>

4.1.0

USCoreMedicationRequestProfile

US Core MedicationRequest Profile

active

false

2020-06-26

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines constraints and extensions on the MedicationRequest resource for the minimal set of data information.
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4.0.1
resource
MedicationRequest
http://hl7.org/fhir/StructureDefinition/MedicationRequest
false
constraint

Value

http://hl7.org/fhir/us/core/StructureDefinition/us-core-observation-lab
4.1.0
USCoreLaboratoryResultObservationProfile
US Core Laboratory Result Observation Profile
active
false
2020-06-27
HL7 International - Cross-Group Projects
No display for ContactDetail
United States of America
Defines constraints and extensions on the Observation resource for the minimal set of data to query
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4.0.1
resource
Observation
http://hl7.org/fhir/StructureDefinition/Observation
false
constraint

Value

http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure
4.1.0
USCoreProcedureProfile
US Core Procedure Profile
active
false
2020-06-29
HL7 International - Cross-Group Projects
No display for ContactDetail
United States of America
Defines constraints and extensions on the Procedure resource for the minimal set of data to query information. This profile can be used to record a service or intervention that is or was performed on
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4.0.1
resource
Procedure
http://hl7.org/fhir/StructureDefinition/Procedure

false
constraint

Value

<http://hl7.org/fhir/us/core/StructureDefinition/us-core-servicerequest>

4.1.0

USCoreServiceRequest

US Core Service Request

active

2018-08-22T00:00:00+00:00

HL7 International - Cross-Group Projects

No display for ContactDetail

United States of America

Defines constraints and extensions on the ServiceRequest resource for the minimal set of data to o with diagnostic and clinical tests and clinical interventions for a patient

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4.0.1

resource

ServiceRequest

<http://hl7.org/fhir/StructureDefinition/ServiceRequest>

false

constraint

Value

<http://hl7.org/fhir/StructureDefinition/Coverage>

4.3.0

Coverage

draft

false

2022-05-28T12:47:40+10:00

Health Level Seven International (Financial Management)

No display for ContactDetail

No display for ContactDetail

Financial instrument which may be used to reimburse or pay for health care products and services payment.

Coverage provides a link between covered parties (patients) and the payors of their healthcare costs

4.3.0

resource

Coverage

<http://hl7.org/fhir/StructureDefinition/DomainResource>

false

specialization

Value

<http://hl7.org/fhir/StructureDefinition/MedicationAdministration>

4.3.0

MedicationAdministration

draft
false
2022-05-28T12:47:40+10:00
Health Level Seven International (Pharmacy)
No display for ContactDetail
No display for ContactDetail
Describes the event of a patient consuming or otherwise being administered a medication. This may be a short running infusion or it may be a long running infusion. Related resources tie this event to the authorizing prescriber, patient and health care practitioner.
4.3.0
resource
MedicationAdministration
http://hl7.org/fhir/StructureDefinition/DomainResource
false
specialization

Value
http://hl7.org/fhir/StructureDefinition/Observation
4.3.0
Observation
active
false
2022-05-28T12:47:40+10:00
Health Level Seven International (Orders and Observations)
No display for ContactDetail
No display for ContactDetail
Measurements and simple assertions made about a patient, device or other subject. Observations are a key aspect of healthcare. This resource is used to capture those that do not require action.
4.3.0
resource
Observation
http://hl7.org/fhir/StructureDefinition/DomainResource
false
specialization

Value
http://hl7.org/fhir/StructureDefinition/Specimen
4.3.0
Specimen
draft
false
2022-05-28T12:47:40+10:00
Health Level Seven International (Orders and Observations)
No display for ContactDetail
No display for ContactDetail
A sample to be used for analysis.

4.3.0

resource

Specimen

<http://hl7.org/fhir/StructureDefinition/DomainResource>

false

specialization