Validation of Enhanced Algorithms to Identify Opioid Use and Co-Occurring Disorders in National Hospital Care Survey (NHCS)

Abstraction Form

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| • • • | to locate the full medical record for the selected encounter in the correct medical record was selected before proceeding with |
|-----------------------------|--|
| Hospital_ID | XXXXXXXXX |
| Encounter_ID | XXXXXXXXX |
| Medical Record Number (MRN) | XXXXXXXXXXXXXXXX |
| Setting | ☐ Emergency Department (ED) ☐ Inpatient (IP) |
| Encounter Start Date | DD MON YYYY |
| Encounter End Date | DD MON YYYY |
| Patient Date of Birth | DD MON YYYY |
| Patient Name | LAST, FIRST MI |
| Patient Sex | XXXXXXXXXXX |
| Patient Address | xxxxxxxxxxx |

Attachment A - Sample Abstraction Form

Answer all the following questions using only information found in the medical record for the above referenced encounter. Exclude encounters that occurred before or after the referenced encounter.

| Question 1. | | Response |
|---|--|--|
| Did the patient have at least one diagnosis related to past or present opioid use? (Select one) | | Yes No (Skip to Question 2) |
| Question 1a. | | Pasnonsa |
| Which diagnosis related to past or present opioid use did the patient have? (Select all that apply) NOTE: Includes a diagnosis code or a diagnostic phrase, such as a label or description for a diagnosis code. | Opioid related disorders Opioid abuse Opioid dependence Opioid use Poisoning by: Opium Heroin Other opioids Methadone Other synthetic narcotics Adverse Effect of: Opium Other opioids Methadone Other synthetic narcotics Adverse Effect of: Opium Other opioids Methadone Other synthetic narcotics Other narcotics | Opium Other opioids Methadone Other synthetic narcotics Unspecified narcotics Other narcotics Miscellaneous Opioid Use: Long term current use of opiate analgesic Finding of opiate in blood Newborn affected by maternal use of opiates Neonatal withdrawal symptoms from maternal use of drugs of addiction Other (please specify) rcotics |

| Question 1b. | | R | esponse |
|---|--|---|--|
| Where did you find evidence of a diagnosis related to past or present opioid use? (Select all that apply) | Allergies Assessment & Chief Complair Diagnoses Discharge Sun EMS Report Family History History of Pre Lab/Toxicolog Medication Li Nurses Notes | int nmary / sent Illness (HPI) | ☐ Past Medical History ☐ Physical Examination ☐ Problem List ☐ Progress Note ☐ Reason for Visit ☐ Review of Systems ☐ Services ☐ Social History ☐ Other (please describe): ———— |
| Question 2. | | Response | |
| of past or present opioid use stat | the patient have at least one written indication past or present opioid use stated by the patient provider other than the diagnosis(es) indicated | | uestion 3) |
| | | | |
| Question 2a. | | Response Written indica | |
| opioid use, copy verbatim from cl possible. (Enter up to three) NOTE: Excludes diagnosis(es) indi 1. Include information regarding opioid use if documented in the re | TE: Excludes diagnosis(es) indicated in Question nclude information regarding the intent of the pid use if documented in the record (e.g., antentional/accidental, suicide attempt & | | ation 1ation 2ation 3 |
| Question 2b. | Response | | |
| Where did you find evidence of the written indication of past or present opioid use? (Select all that apply) | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes | | □ Past Medical History □ Physical Examination □ Problem List □ Progress Note □ Reason for Visit □ Review of Systems □ Services □ Social History □ Other (please describe): |

| 0 | | B | | |
|---|--|--|--|--|
| Question 3. | | Response | | |
| Was any drug testing performed during the encounter? (Select one) | | Yes No (Skip to Qu | uestion 4) | |
| Question 3a. | | Response | | |
| Were any drug tests positive? (Se | elect one) | Yes | | |
| Trefe diff diag tests positive. (se | ilect offe, | = | | |
| | | ☐ Don't know/No results provided (Skip to 4) | | |
| | | | | |
| Question 3b. | | R | esponse | |
| Which substance(s) had positive test results? (Select all that apply) | □ Amphetamines □ Barbiturates □ Benzodiazepines □ Buprenorphine/ Norbuprenorphine □ Cannabis/Marijuana (THC) □ Cocaine □ Codeine □ Ethanol/Alcohol □ Fentanyl/Fentanyl Analogs □ Hydrocodone □ Hydromorphone □ Levorphanol | | | |
| | | | | |
| Question 3c. | | R | esponse | |
| Where did you find evidence of drug testing? (Select all that apply) | ☐ Allergies ☐ Assessment & Plan ☐ Chief Complaint ☐ Diagnoses ☐ Discharge Summary ☐ EMS Report ☐ Family History ☐ History of Present Illness (HPI) ☐ Lab/Toxicology ☐ Medication List ☐ Nurses Notes | | □ Past Medical History □ Physical Examination □ Problem List □ Progress Note □ Reason for Visit □ Review of Systems □ Services □ Social History □ Other (please describe): | |
| | | | | |
| Question 4. | | Response | | |
| Was at least one prescription opioid administered and/or prescribed to the patient during the encounter or listed on Past or Current Medication Lists? (Select one) | | ☐ Yes ☐ No (Skip to Qu | uestion 5) | |

| Question 4s | | | | 00001 | | |
|--|-------------|--------------------------------|----------------|--------------------|----------------------|-----------------|
| Question 4a. | d(a) | D. D | K | espor | | |
| Which prescription opioi | | | ☐ Methadone | | | |
| was administered and/or Codeine | | | Morphine | | | |
| prescribed to the patient | t? | ☐ Fentanyl | | = | xycodone | |
| (Select all that apply) | | Hydrocodone | | | xymorphone | |
| | | Hydromorphone | | _ | amadol | |
| | | Levorphanol | | □ Of | ther (please describ |)e): |
| | | ☐ Meperidine | | _ | | |
| | | | | | | |
| | | | | | Response | |
| | | | | | Given during | Prescribed upon |
| Question 4b. | | Opioid | Prior to Encou | nter | Encounter | Discharge |
| When was the | Bupren | orphine | | | П | П |
| prescription opioid(s) | Codeine | - | Ιп | | l | l |
| administered and/or | Fentany | | l | | l | l ñ |
| prescribed to the | Hydroco | | l ä | | l ä | l ä |
| patient? | 1 * | orphone | l H | | lä | l H |
| (Select all that apply) | Methad | - | l H | | | l H |
| (Select all that apply) | Morphi | | l H | | | |
| NOTE: Opioids | Oxycod | | | | | |
| · · | 1 1 | | | | | |
| administered prior to | Oxymor | - | | | | |
| encounter include those | Tramad | | | | | |
| listed on Past and Current | Other (p | olease describe): | | | | |
| Medication Lists | | | | | | |
| | | | | | | |
| | | | | | | |
| Question 4c. | | | D | espoi | nse | |
| Where did you find evide | onco of | Allergies | | | Past Medical Histo | |
| opioid(s) administered a | | Assessment & P | lan | | Physical Examinati | • |
| prescribed to the patient | | l – | | = | Problem List | IOH |
| 1 * | L. : | Chief Complaint | _ | | | |
| (Select all that apply) | | | | l ∐ | Progress Note | |
| | | Discharge Sumn | nary | | Reason for Visit | |
| | | EMS Report | | | Review of Systems | ; |
| | | Family History | | | Services | |
| History of Prese | | ent Illness (HPI) | | Social History | | |
| ☐ Lab/Toxicology | | | | Other (please desc | :ribe): | |
| ☐ Medication List | | | | | | |
| ☐ Nurses Notes | | | | | | |
| | | | | | | |
| Question 5. Response | | | | | | |
| Was naloxone (Narcan) administered to the patient | | Yes | | | | |
| either during the encounter or shortly before arrival? | | No (Skip to Question 6) | | | | |
| (Select one) | | ☐ Unknown (Skip to Question 6) | | | | |

| Question 5a. | | Response | | |
|---|---|--|--|--|
| Who administered naloxone (Narcan)? (Select all that apply) | | ☐ EMS ☐ Firefighter ☐ Law enforcement ☐ Hospital provider ☐ Family/friend/bystander ☐ Other ☐ Unknown | | |
| Question 5b. | | Response | | |
| How many doses of naloxone (Narcan) were administered? (Select one) | | ☐ Single ☐ Multiple ☐ Unknown | | |
| Question 5c. | | Response | | |
| Did naloxone (Narcan) administration result in a positive response (e.g., increased respiration and/or increased alertness)? (Select one) | | ☐ Yes ☐ No ☐ Unknown | | |
| Question 5d. | | Response | | |
| Where did you find evidence of naloxone (Narcan) administration? (Select all that apply) | Allergies Assessment & F Chief Complain Diagnoses Discharge Summ EMS Report Family History History of Prese Lab/Toxicology Medication List Nurses Notes | Plan Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): | | |
| Question 6. | | Response | | |
| Did the patient have at least one diagnosis related to a past or present substance use disorder? (Select one) | | ☐ Yes ☐ No (Skip to Question 7) | | |
| NOTE: Includes a diagnosis code or a diagnostic phrase, such as a label or description for a diagnosis code. | | | | |

| Question 6a. | | Response | |
|---|--|--|--|
| Which diagnosis related to a past or present substance use disorder did the patient have? (Select all that apply) NOTE: Includes a diagnosis code or a diagnostic phrase, such as a label or description for a diagnosis code. | | Alcohol related disorders Opioid related disorders Cannabis related disorders Sedative, hypnotic or anxiolytic related disorders Cocaine related disorders Other stimulant related disorders Hallucinogen related disorders Nicotine dependence Inhalant related disorders Other psychoactive substance related disorders Other (please describe): | |
| Question 6b. | | R | Response |
| Where did you find evidence of a diagnosis related to past or present substance use disorder? (Select all that apply) | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes Response | | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |
| Was there at least one written indication of past or present substance use disorder stated by the patient or provider other than the diagnosis(es) indicated in question 6? (Select one) | | ☐ Yes ☐ No (Skip to Qu | uestion 8) |
| Question 7a. | | Response | |
| Describe the written indication of a past or present substance use disorder, copy verbatim from chart when possible. (Enter up to three) NOTE: Excludes diagnosis(es) indicated in Question 6. | | ☐ Written indica | ation 1ation 2ation 3 |

| Attachment A - Sample Abstraction Form | | | |
|---|--|--|--|
| | | | |
| | | | |
| Question 7b. | | R | esponse |
| Where did you find evidence of a written indication of a past or present substance use disorder? (Select all that apply) NOTE: Excludes diagnosis(es) indicated in Question 6. | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes | | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |
| Question 8. | | Response | |
| Did the patient have at least one diagnosis related to a past or present anxiety disorder? (Select one) NOTE: Includes a diagnosis code or a diagnostic phrase, such as a label or description for a diagnosis code. | | ☐ Yes ☐ No (Skip to Qu | uestion 9) |
| Ougstion % | | Dogwans | |
| Question 8a. | | Response Social phobias | |
| Which diagnosis related to a past or present anxiety disorder did the patient have? (Select all that apply) | | Social phobias Panic disorder Generalized an Other anxiety | - |

NOTE: Includes a diagnosis code or a diagnostic phrase, such as a label or description for a

diagnosis code.

Obsessive-compulsive disorder
Acute stress reaction
Post-traumatic stress disorder (I

Other (please describe):

Post-traumatic stress disorder (PTSD)

| Question 8b. | | R | esponse |
|---|--|----------------------------------|--|
| Where did you find evidence of a diagnosis related to a past or present anxiety disorder? (Select all that apply) | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes | | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |
| | | | |
| Question 9. | | Response | |
| present anxiety disorder stated b | there at least one written indication of past or ent anxiety disorder stated by the patient or der other than the diagnosis indicated in | | uestion 10) |
| Question 9a. | | Response | |
| Describe the written indication of anxiety disorder, copy verbatim f possible. (Enter up to three) NOTE: Excludes diagnosis(es) india. | rom chart when | ☐ Written indica☐ Written indica | ation 1ation 2ation 3 |
| | | | |
| Question 9b. | | R | esponse |
| Where did you find evidence of a written indication of a past or present anxiety disorder? (Select all that apply) NOTE: Excludes diagnosis(es) indicated in Question 8. | □ Allergies □ Assessment & Plan □ Chief Complaint □ Diagnoses □ Discharge Summary □ EMS Report □ Family History □ History of Present Illness (HPI) □ Lab/Toxicology □ Medication List □ Nurses Notes | | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |

| Question 10. | Response |
|---|---|
| Was there at least one diagnosis related to a por present depressive disorder? (Select one) NOTE: Includes a diagnosis code or a diagnost phrase, such as a label or description for a diagnosis code. | ☐ No (Skip to Question 11) |
| Question 10a. | Response |
| Which diagnosis related to a past or present depressive disorder did the patient have? (Selethat apply) NOTE: Includes a diagnosis code or a diagnost phrase, such as a label or description for a diagnode. | Major depressive disorder, single episode Major depressive disorder, recurrent Personal history of self-harm Suicidal ideations Suicide attempt Other (please describe): |
| Question 10b. | Response |
| Where did you find evidence of a diagnosis related to a past or present depressive disorder? (Select all that apply) | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |
| Question 11. | Response |
| Was there at least one written indication of particles of present depressive disorder as stated by the patient or provider other than the diagnosis indicated in question 10? (Select one) | |

| Question 11a. | | Response | |
|--|--|--|--|
| Describe the written indication of depressive disorder, copy verbati when possible. (Enter up to three NOTE: Excludes diagnosis(es) indi 10. For written indications of self-and behaviors, include whether the a comorbidity of schizophrenia the record. | m from chart) cated in Question harm thoughts hey were related | ☐ Written indica | ation 1ation 2ation 3 |
| Question 11b. | | R | esponse |
| Where did you find evidence of a written indication of a past or present depressive disorder? (Select all that apply) NOTE: Excludes diagnosis(es) indicated in Question 10. | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes | | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): |
| Question 12. | | Response | |
| substance use disorder (SUD), and | Vas any treatment initiated for the patient's abstance use disorder (SUD), anxiety disorder and/or depressive disorder during this encounter? Select one) | | uestion 13) loes not have a substance use disorder, ler or depressive disorder (Skip to 13) |
| Question 12a. | Response | | |
| What treatment was initiated during this encounter? (Select all that apply) | Buprenorphin or Naltrexone Admitted to a dependency/c unit at the hos | chemical letoxification spital | Admitted to a psychiatric inpatient unit at this hospital Brief intervention counseling Transferred/referred to another facility Other (please describe): |

| Question 12b. | Response | | | |
|---|--|--|--|--|
| Where did you find evidence of treatment initiated during this encounter? (Select all that apply) | Allergies Assessment & Plan Chief Complaint Diagnoses Discharge Summary EMS Report Family History History of Present Illness (HPI) Lab/Toxicology Medication List Nurses Notes | Past Medical History Physical Examination Problem List Progress Note Reason for Visit Review of Systems Services Social History Other (please describe): | | |
| Question 13. | Response | | | |
| Abstractor Notes Use this space to describe any issues information for this encounter or an information. | _ | | | |