Medical Records Data Abstraction Form

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# The Natural History of Spina Bifida in Children Pilot Project

## MEDICAL RECORDS DATA ABSTRACTION FORM

Participant ID r	number (marked on each page):
Date information retrieved:	(mm-dd-yyyy)
Person retrieving information:	
Name of hospital/clinic:	
Time period covered:	(mm-yyyy to mm-yyyy)
SECTION A- NE	<u>UROSURGERY</u>
Lesi	on
A1.	
Date of lesion closure:	Information not in medical records
(mm-dd-yyyy) A2.	
Level of lesion reported:	Information not in medical records
Shu	nt
A3.	
Hydrocephalus present? Yes	
No SKIP A4-A16	
Information not in medical records	
A4.	
Shunt present?	
Yes	
No SKIP A5-A16	
Information not in medical records	
A5.	( 11 )
What date was the shunt inserted	(mm-dd-yyyy)
Information not in medical records	
A6.	
What type of shunt? CHECK ALL THAT AF	PPLY

Ventr	iculoatrial shunt	
	iculo-subgaleal shunt (this shunt is used temporarily)	
	riculo-peritoneal shunt	
	r, specify	
	nation not in medical record	
A7.		
	ision/s been performed?	
ras situit iev	Yes	
	No SKIP A8-A16	
	Information not in medical records	
Shunt Revisio	on	
Shunt Obstruc		
A8.		
Was the shunt	t obstructed?	
	Yes(mm-dd-yyyy)	
	No SKIP A9-A10	
	Information not in medical records	
A9.		
Was the shunt	t revised?	
	Yes	
	No SKIP A10	
	Information not in medical records	
A10.		
What date was	s shunt reinserted	(mm-dd-yyyy)
	Information not in medical records	
Shunt Infectio A11.	on and the state of the state o	
A11. Was the shunt	t infected?	
,, as the shall	Yes(mm-dd-yyyy)	
	No SKIP A12-A13	
	Information not in medical records	
A12.		
	culture result? Write type of organism	
	Information not in medical records	

-уууу
IAN
уууу)
yyyy)
·yyyy) ·yyyy)
yyyy)
yyyy)

### Medical Records Data Abstraction Form

## Symptomatic Chiari II Malformation

A20. Symptomatic Chiari II malformation diagnosed?	
Yes, what date (mm-dd-yyyy)	
No SKIP A21-A23	
Information not in medical records	
information not in medical records	
A21.	
Presenting symptoms of Chiari II Malformation- check all that apply	
Difficulty feeding	
Aspiration	
Gagging problems	
Weak cry	
Arm weakness	
Spacticity	
High pitched cry	
Temporary stridor (noisy breathing)	
Apnea	
Cyanosis	
Other, specify	
Information not in medical records	
information not in incurcus records	
A22.	
Has Chiari decompression, or any other surgery related to Chiari II malformation been	
performed?	
Yes, specify type of surgery and date below	
1) (type of surgery)	
(mm-dd-yyyy)	
2) (type of surgery) (mm-dd-yyyy)	
3) (type of surgery) (mm-dd-yyyy)	
No SKIP A23	
Information not in medical records	
A23.	
Total number of Chiari II malformation related surgeries	

**Procedures Performed** 

A24.		
MRI performed? Yes		
No SKIP A	25 A28	
	not in medical records	
Information	not in medical records	
A25.		
Date of MRI	(mm-dd-yyyy)	
A26.		
MRI performed on	what area?	
	Head/neck	
	Spine	
	Other, specify	_
	Information not in medical records	
A27.		
MRI findings?		
	Chiari II malformation	
	Syrinx (syringomyelia)	
	Syringobulbia	
	Diastematomyelia	
	Other, <i>specify</i>	_
A28.		
Total number of M	RIs performed	
COLLECT INFO	RMATION FOR EACH MRI. IF MORE THAN ONE USE	
	RM (I.E., COPY OF SAME FORM)	
A29.		
CT scan performed	to ventricles?	
Yes		
No SKIP A	30-A33	
Information	not in medical records	
A30.		
	(mm-dd-yyyy)	
A31.		
CT scan performed	on what area?	
	Head/neck	
	Spine	
	Other, specify	

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## Information not in medical records

A32. CT fin	ndings:	
A33. Total	number of CT scans performed	
	LECT INFORMATION FOR EAC ITIONAL FORM (I.E., COPY OF	CH CT SCAN. IF MORE THAN ONE USE SAME FORM)
A34. Notes	/Comments Related to Neurosurger	y:
<u>SEC</u>	TION B - UROLOGY, BLADI	DER & BOWEL MANAGEMENT
B1.	Level of lesion reported:	Information not in medical records
D.C.	Bladder And	atomy & Function
B2. What	is the anatomy of the bladder?	
	Normal anatomy	

V	esicostomy, specify date	(mm-dd-yyyy)
O	ther, please specify	
Ir	formation not in medical recor	ds
Urodynan	nic Assessment	
В3.		
	dynamic study been performed	?
	es	
N	o SKIP B4-B7	
Ir	nformation not in medical recor	ds
B4.		
	odynamic study:	(mm-dd-yyyy)
B5.		
	of urodynamic study (check all	that apply):
J	Good compliance	11 57
	Poor compliance	
	Over-activity	
	Leak point pressure great	er than 40
	Incontinent/leaking	
	Detrusor sphincter dysser	nergia
	Information not in medical	
B6.		
Bladder c	apacity as % of predicted capac	
		Information not in medical records
B7.		
Total num	nber of urodynamic studies	
		ACH URODYNAMIC STUDY. IF MORE RM (I.E., COPY OF SAME FORM)
	Kidr	ney Anatomy
B8.	Kluii	cy muoniy
	onormalities noted?	
	es,(mm-dd-y	уууу)
	Specify	
	<del> </del>	
	<del></del>	

#### Medical Records Data Abstraction Form

No

Information not in medical records

#### **Urinary Tract Conditions**

B9.	
Diagn	osis of urinary tract infection (UTI)?
	Yes, (mm-dd-yyyy)
	No SKIP B10-B13
	Information not in medical records or "None noted"
B10.	
Туре	of organism
D11	Information not in medical records
B11. Who r	nade the diagnosis?
VV 11O 1	Pediatric urologist
	Pediatrician
	Primary care physician
	Emergency room physician
	Other, specify
	Information not in medical records
B12.	information not in medical records
	symptoms were present? (check all that apply)
	Fever greater than 101degrees
	Nausea/vomiting
	Headaches
	Fatigue/malaise
	Change in cathing schedule Change in voiding pattern
	Foul smelling urine
	Other, specify
	Information not in medical records
B13.	
Total	number of urinary tract infections
	LECT INFORMATION FOR EACH URINARY TRACT INFECTION. IF E THAN ONE USE ADDITIONAL FORM (I.E., COPY OF SAME FORM)
B14.	osis of vesisouretoral reflux (ALIDY)
ומgn	osis of vesicoureteral reflux (VUR)?
	Yes, (mm-dd-yyyy)

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No SKIP B15-B20 Information not in medical records B15. Was the vesicoureteral reflux Bilateral Unilateral Information not in medical records B16. Was a voiding cysto-urethrogram (VCUG) performed? Yes, \_\_\_\_\_ (mm-dd-yyyy) No SKIP B17 Information not in medical records B17. Was the bladder neck Open Closed Information not in medical records B18. What was the voided residual amount? \_\_\_\_\_\_ Information not in medical records B19. What was the reflux grade on the right side? Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Information not in medical records B20. What was the reflux grade on the left side? Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Information not in medical records

#### **Procedures**

#### B21.

Have there been any surgeries related to urology?

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Yes No SKIP B22

Information not in medical records

B22.		
Type of surgery (n	ote multiple dates if applicable)	
		(mm-dd-yyyy)
	What type of bladder augmentation?	
	Colon	
	Ileocytoplasty	
	Ureter	
	Stomach	
	Other, specify	
	Information not in medical records	
	Mitrofanoff	(mm-dd-yyyy)
	Vesicostomy	(mm-dd-yyyy)
	Reimplant Ureter(s)	(mm-dd-yyyy)
		(mm-dd-yyyy)
	Sphincter Tightening	(mm-dd-yyyy)
		(mm-dd-yyyy)
	Other Urologic Surgery	(mm-dd-yyyy)
	Specify	
	Imaging	
B23.	4 10	
Has imaging been	performed?	
Yes	224 722	
No SKIP I		
Intormatio	n not in medical records	
B24.		
Date of imaging:	(mm-dd-yyyy)	

B25.	
-	Ultrasonography
-	Nuclear imaging
-	Dimercaptosuccinic acid scintigraphy (DMSA)
	Magnetic Resonance Imaging (MRI)
(	Other, specify
	Information not in medical records
B26.	
	ea was x-rayed?
	Bladder
-	Kidney
	Ureter
	Other, specify
	Information not in medical records
Imaging	Results
B27.	2.com.co
Kidney/s	5
•	Hydronephrosis
	Normal size for age
	Scarring
	Other, specify
	Information not in medical records
B28.	
Bladder	
,	Thick wall
,	Trabeculated
	Other, specify
	Information not in medical records
B29.	
	mber of times for urology related imaging
	CCT INFORMATION FOR EACH IMAGE. IF MORE THAN ONE USE IONAL FORM (I.E., COPY OF SAME FORM)
B30.	
	ım creatinine been measured?
	Yes
	No SKIP B31-B32

## Medical Records Data Abstraction Form

## Information not in medical records

B31. Date of serum creatinine:	(mm-dd-yyyy)
B32. Serum creatinine value: Level _	
I	Normal
	Abnormal
]	Information not in medical records
	Continence Urinary
B33.	
Does child wear diapers?	
Yes	
No	
	t in medical records
B34.	
Is the child continent (without of	± '
Yes	'Dry, with or without interventions during the day"
No	
	t in medical records
B35.	. In medical records
Does child use bladder manage	ment?
Yes	
No SKIP B36-I	338
Information not	t in medical records
B36.	
	ent is/are being used? (check all that apply)
Normal void	
Clean Intermittent Cath	neterization (CIC)
Dribble	
Crede	
Indwelling catheter	
Other, specify	
Information not in med	lical records

B37.

What date was the child/family introduced to a bladder management program/s?
Date introduced (mm-dd-yyyy) Information not in medical records
Type of bladder management
Type of bladder management
B38.
Who is primarily responsible for the bladder management program?
Child only
At what age did child start performing bladder management program independently?
Information not in medical records
Caregiver
Other/s
Primarily the child, but others also
Does not apply
Information not in medical records
Continence
Bowel
B39.
Is the child continent and not using a diaper (i.e., no accidents)?
Yes
No SKIP B40-B41
Information not in medical records
B40.
What type of bowel management is being used ( <i>check all that apply</i> )?
None, voluntary control (normal)
Involuntary, use diaper or pad
Regular scheduled bowel movements with <u>aids used</u> (enemas, digital
stimulation, suppositories, etc.)
Regular scheduled bowel movements with <u>no aids used</u>
Percutaneous Cecostomy or colostomy
Other, specify
Information not in medical records
B41.
Who is primarily responsible for the bowel management program?
Child only,
At what age did child start performing bowel management program independently?
Information not in medical records
Caregiver

Other/s	
Primarily the child, but others also	
Does not apply	
Information not in medical records	
B42. Notes/Comments Related to Urology:	
CECTION C. OPTHOREDIC	CC 0 MODII ITV
SECTION C: ORTHOPEDIC	LS & MOBILITY
Overall Functioning & M	<i>Iobility</i>
C1. Level of lesion reported:	
Information not in medical records	
2.	
t what age did the child start to cruise?	(give date if available)
Child did not cruise	
Information not in medical records	
3.	
t what age did the child start to sit?	(give date if available)
Child did not sit	
Information not in medical records	
4.	
t what age did the child start to walk?	(give date if available)
Child does not walk	

## Medical Records Data Abstraction Form

## Information not in medical records

C5.	
What is the chil	ld's mobility status? check all that apply
	Full-time Independent
	with assistive device
	without assistive device
	Household ambulator
	Non-functional ambulator
	Non-ambulators
	Information not in medical records
	Information regarding the child's mobility status does not comply with the
	Hoffer classification used above. Please write down the information related to the child's mobility status that is noted in the child's
	record:
	e child use assistive technology?
Yes	
_	SKIP C7
Info	ormation not in medical records
C7 What as	ssistive technology does the child use? <i>check all that apply</i>
C7. What up	Standing frame/wheeled stander
	Reciprocating Gait Orthosis (RGO)
	Hip-knee-ankle-foot-orthosis (HKAFO)
	Knee-ankle-foot-orthosis (KAFO)
	Ankle Foot Orthosis (AFO)
	Walker, specify type of walker
	forward/reversed
	reversed K-walker
	wheeled
	unwheeled
	Crutches, specify type of walker
	Other/s, please specify
	outer, o, preude opecity

### Medical Records Data Abstraction Form

### Information not in medical records

#### **Conditions & Procedures**

C8.			
Diagnosis of <b>sco</b>	oliosis?		
Yes	s, date of diagnosis		(mm-dd-yyyy)
No	SKIP C9-C14		
Info	ormation not in medical r	records	
C9. How was the	e scoliosis diagnosis mad	le?	
	Diagnosis made clini	cally	
	Diagnosis made radio	ographically	
	Information not in mo	edical records	
C10. Was th	he scoliosis congenital?		
	Yes		
	No		
	Information not in mo	edical records	
C11. What	was listed as the cause/s	of the scoliosis?	
	Chiari II malformatio	n	
	Tethered cord		
	Split cord malformati	ion	
	Syrinx/syringomyelia	ł	
	Other, specify		
	Information not in mo	edical records	
C12. Has th	ne scoliosis been surgical	ly corrected?	
	Yes,	(mm-dd-	-уууу)
	No SKIP C13-C14		
	Information not in mo	edical records	
C13. Were t	there complications relat	ed to the surgery?	
	Yes		
	No SKIP C14		
	Information not in mo	edical records	
C14. What	were the complications?	check all that apply	,
	Infection	11 0	
	Pseudoarthritis arthro	osis	
	Neurological loss of	function	

#### Medical Records Data Abstraction Form

Medical complications Pulmonary complications Cerebrospinal fluid leak (CSF) Other, specify\_\_\_\_\_ C15. Diagnosis of **kyphosis**? Yes, date of diagnosis \_\_\_\_\_\_ (mm-dd-yyyy) No SKIP C16-C21 Information not in medical records C16. How was the kyphosis diagnosis made? Diagnosis made clinically Diagnosis made radiographically Information not in medical records C17. Was the kyphosis congenital? Yes No Information not in medical records C18. What was listed as the cause/s of the kyphosis? Chiari II malformation Tethered cord Split cord malformation Syrinx/syringomyelia Other, specify\_\_\_\_\_ Information not in medical records C19. Has the kyphosis been surgically corrected? Yes, \_\_\_\_\_ (mm-dd-yyyy) No SKIP C20-C21 Information not in medical records C20. Were there complications related to the surgery? Yes No SKIP C21 Information not in medical records C21. What were the complications? *please check all that apply* Infection Pseudoarthritis arthrosis

#### Medical Records Data Abstraction Form

Neurological loss of function

Medical complications

	Cerebrospinal fluid leak (CSF) Other, specify Information not in medical records
2.	of hin dialogation?
ignosis	of <b>hip dislocation</b> ? Yes, date of diagnosis (mm-dd-yyyy)
	No SKIP C23-C27
	Information not in medical records
C23. V	Was the hip dislocation Unilateral Bilateral
C24.	Was the diagnosis of hip dislocation made clinically or radiographically?  Diagnosis made clinically  Diagnosis made radiographically  Information not in medical records
C25.	Was the hip dislocation congenital? Yes No Information not in medical records
C26.	Was the hip dislocation treated? Yes No SKIP C27 Information not in medical records
C27.	How was the hip dislocation treated? Surgically Non-surgically Information not in medical records

Knee and Rotational Disorders C28.

gnosis	of <b>foot or ankle deformities</b> ?	
	Yes, what date (mm-dd-yyyy)	
	No SKIP C29	
	Information not in medical records	
C29.		
Have	the <b>foot or ankle deformities</b> been surgically corrected?	
	Yes, what date/s (mm-dd-yyyy)	
	No	
	Information not in medical records	
	SECTION D- HOSPITALIZATION	
	Neurosurgery	
D1.	Has the child ever been hospitalized because of <b>neurological</b> complications? Yes	?
	No SKIP D2-D7	
	Information not in medical records	
D2.	Dates of <b>1st</b> hospitalization:	
	(mm-dd-yyyy) (mm-dd-yyyy)	
D3.	List reason/s for hospitalization?	
D4.	Dates of 2 <sup>nd</sup> hospitalization:	
	(mm-dd-yyyy) (mm-dd-yyyy)	
D5.	List reason/s for hospitalization?	
Ъ3.		
D6.	Dates of 3 <sup>rd</sup> hospitalization:	
	(mm-dd-yyyy) (mm-dd-yyyy)	
D7.	List reason/s for hospitalization?	
		_

## Medical Records Data Abstraction Form

# Urology

D8.	Has the child been hospitalized because of <b>urological</b> complications? Yes		
	No SKIP D9-D14		
	Information not in medical r	records	
D9.	Dates of <b>1st</b> hospitalization:_		
		(mm-dd-yyyy)	(mm-dd-yyyy)
D10.	List reason/s for hospitalizati	ion?	
D11.	Dates of <b>2</b> <sup>nd</sup> hospitalization:_		
		(mm-dd-yyyy)	(mm-dd-yyyy)
D12.	List reason/s for hospitalizati	ion?	
D13.	Dates of <b>3</b> <sup>rd</sup> hospitalization:	(mm-dd-yyyy)	(mm-dd-yyyy)
		(IIIII-uu-yyyy)	(IIIII-dd-yyyy)
D14.	List reason/s for hospitalizati	ion?	
	IF MORE THAN 3 HOSPIT	ΓALIZATIONS USE	ADDITIONAL FORM
		Orthopedics	
D15.	Has the child been hospitaliz Yes No SKIP D16-D21	ed because of complic	ations related to <b>orthopedics</b> ?
	Information not in medical r	records	
D16.	Dates of <b>1st</b> hospitalization:_		
	-	(mm-dd-yyyy)	(mm-dd-yyyy)

Dates of <b>2</b> <sup>nd</sup> hospita	lization:	
-	(mm-dd-yyyy)	(mm-dd-yyyy)
List reason/s for hos	spitalization?	
Dates of <b>3</b> <sup>rd</sup> hospita	llization:	
	(mm-dd-yyyy)	(mm-dd-yyyy)
List reason/s for hos	spitalization?	