📖 Data Dictionary Codebook

#	Variable / Field Name	Field Label *Field Note*	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Spasms (spasms)			
1	[studyid]	Study ID	text
2	[guid]	GUID	text
3	[site]	Site	radio 1 Boston Children's Hospital 2 Children's Hospital Colorado 3 Cleveland Clinic 5 Children's Hospital Philadelphia 6 Washington University 7 NYU 8 Baylor 10 UCLA 9 Unknown
4	[site_other]	Was the patient seen at any of the other sites?	radio 1 Yes 2 No 9 Unknown

5	[other_name] Show the field ONLY if: [site_other] = '1'	If yes, which one?	radio

radio
1	Boston Children's Hospital
2	Children's Hospital Colorado
3	Cleveland Clinic
5	Children's Hospital Philadelphia
6	Washington University
7	NYU
8	Baylor

6	[gender]	Sex	radio

| 1 | Female |
| 2 | Male |

7	[sz_onset]	Age of seizure onset (weeks): *integer*	text

8	[spasms_onset]	Age of spasms onset (months): *integer*	text

9	[spasms_onset_yr]	Year of spasms onset (2012 or beyond):	text

10	[m3chartreviewordeath]	Date of last follow-up? *(MM/DD/YYYY)*	text (date_mdy)

11	[age_fu]	Age at last follow up (years)? _ _-_	text

12	[sz_con]	Are seizures controlled (at last follow up)? *Only answer "Yes" if seizure free of ALL seizure types at last follow up*	radio

1	Yes
2	No
9	Unknown

13	[cdkl5_var]	Does the patient have a CDKL5 variant?	radio

| 1 | Yes |
| 2 | No |

14	[cdna_var] Show the field ONLY if: [cdkl5_var] = '1'	If yes, nucleotide change (cDNA): *e.g. c.634G>A*	text
15	[protein_var] Show the field ONLY if: [cdkl5_var] = '1'	Protein change: *e.g. p.Arg214Gly*	text
16	[trans_id] Show the field ONLY if: [cdkl5_var] = '1'	Transcript ID: NM *e.g. NM_003159.2 (or n/a)*	text
17	[del_coord] Show the field ONLY if: [cdkl5_var] = '1'	Or deletion coordinates ChrX: *e.g. 16,308,217-18,600,035 (or n/a)*	text
18	[ref_gen] Show the field ONLY if: [cdkl5_var] = '1'	Reference genome (in methods of genetics report): *in methods of genetics report*	radio 1 hg18 2 hg19 3 hg38
19	[risk]	Any other risk factors for epilepsy:	checkbox 1 risk___1 Family history of epilepsy in first degree relatives 2 risk___2 Malformation of cortical development 3 risk___3 Trauma 4 risk___4 Vascular event (e.g. ischemic or hemorrhagic stroke) 5 risk___5 Other genetic variants 6 risk___6 None 7 risk___7 Unknown
20	[var_other] Show the field ONLY if: [risk(5)] = '1'	If other genetic variant, explain: *Gene; cDNA; protein, OR ChrX coordinates, x "copy number"*	text

21	[control_etiology] Show the field ONLY if: [cdkl5_var] = "2"	If control patient, what is the etiology [NISC cohort only]?	radio

radio
1	Structural
2	Genetic
3	Infectious
4	Metabolic
5	Immune
6	Other
7	Unknown

22	[baseline_cause] Show the field ONLY if: [cdkl5_var] = "2"	Etiology, additional information [NISC cohort only]:	text

23	[preeeg_av]	Section Header: *EEG at spasms onset prior to treatment* EEG at spasm onset prior to treatment?	radio

radio
1	Yes
2	No
9	Unknown

24	[preeeg_spasm] Show the field ONLY if: [preeeg_av] = '1'	EEG features: *select all that apply*	checkbox

checkbox
2	preeeg_spasm___2	Hypsarrhythmia
3	preeeg_spasm___3	Modified hypsarrhythmia
4	preeeg_spasm___4	Other
5	preeeg_spasm___5	Normal
6	preeeg_spasm___6	Any abnormality [NISC cohort only]

25	[preeeg_other] Show the field ONLY if: [preeeg_spasm(4)] = '1'	If other, check all that apply:	checkbox		
			1	preeeg_other___1	Burst suppression
			2	preeeg_other___2	Generalized slowing
			3	preeeg_other___3	Focal slowing
			4	preeeg_other___4	Normal PDR and sleep features
			5	preeeg_other___5	Abnormal PDR
			6	preeeg_other___6	Abnormal sleep features

26	[preeeg_other_2] Show the field ONLY if: [preeeg_spasm(4)] = '1'	If other, add any relevant notes:	notes

27	[preeeg_interictal] Show the field ONLY if: [preeeg_spasm(4)] = '1' or [preeeg_spasm(6)] = '1'	Do any of the following interictal activities apply:	radio	
			0	None
			1	Multifocal (3 or more foci, independent from both hemispheres)
			3	Single focus
			4	Two foci only
			5	Hemispheric
			6	Generalized
			7	Generalized plus focal/multifocal
			9	Not available

28	[preeeg_edata] Show the field ONLY if: [preeeg_av] = '1'	Is the primary (raw) EEG data available for review?	radio	
			1	Yes
			2	No

29	[b_score] Show the field ONLY if: [preeeg_edata] = '1'	If primary EEG data is available for review, please provide the BASED score for the EEG at spasms onset (prior to treatment). Review score as outlined below (BASED score description guide), based on the most severely abnormal 5 minute sleep epoch available from files:	radio 	2	< =2
3	3
4	4
5	5
9	N/A	
30	[preeeg_bc] Show the field ONLY if: [preeeg_edata] = '1'	Specify how criteria are met, as outlined below (BASED score description guide):	text
31	[basedscoreimage1] Show the field ONLY if: [preeeg_edata] = '1'	BASED score description guide:	descriptive

32	[treatmentdescrip1]	Section Header: *Initial Treatment Response Definitions*	descriptive
		PLEASE USE THESE DEFINITIONS FOR QUESTIONS BELOW	
		Initial treatment response options:	
		Full/Complete 14 day response: Cessation of spasms by 14 days and resolution of hypsarrhythmia (if present on initial EEG) (from treatment initiation for ACTH or prednisolone, from max dose for vigabatrin)	
		Late response after 14 days: Cessation of spasms AFTER 14 days and resolution of hypsarrhythmia (if present on initial EEG) (from treatment initiation for ACTH or prednisolone, from max dose for vigabatrin)	
		Partial response (CDKL5 group only): Reduction in median daily spasm frequency but not spasm freedom, or apparent cessation of spasms but persistence of hypsarrhythmia (classify as >50% reduction in spasms or < 50% reduction in spasms)	
		None: No change in median daily spasm frequency	
		Worsening: Increase in median daily spasm frequency	
		Note: For the ketogenic diet response is assessed at 1 month after initiation, if started within 3 months of spasms onset.	

33	[acth]	Section Header: *ACTH* Was ACTH used at any point?	radio 1 Yes 2 No 9 Unknown

34	[acth_1] Show the field ONLY if: [acth] = '1'	Was ACTH given as the first treatment for spasms?	radio 1 Yes 2 No 9 Unknown

35	[acth_age] Show the field ONLY if: [acth] = '1'	Age at treatment (months)? *integer*	text (integer)
36	[acth_max] Show the field ONLY if: [acth] = '1'	Max dose of ACTH (in units/m2): _ _._ *(units/m2)*	text (number_1dp)
37	[acth_length] Show the field ONLY if: [acth] = '1'	Length of treatment at max dose (days): *integer*	text (integer)
38	[acth_clin] Show the field ONLY if: [acth] = '1'	Day 14 response to ACTH, clinical observation only?	radio | 1	Full 14-day response
2	Late response after 14 days
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A, did not complete 14 days of treatment	
39	[acth_part14] Show the field ONLY if: [acth_clin] ='3'	If partial response, please clarify:	radio | 1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	
40	[acth_part15] Show the field ONLY if: [acth_clin] ='3'	If partial response, please add any relevant notes:	notes

41	[acth_eeg] Show the field ONLY if: [acth] = '1'	Day 14+ response to ACTH, with follow- up EEG data (2-4 weeks after starting)?	radio 	1	Full 14-day response
2	Late response after 14 days
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A	
42	[acth_part14plus] Show the field ONLY if: [acth_eeg] = '3'	If partial response, please clarify:	radio 	1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	
43	[acth_part14plus_2] Show the field ONLY if: [acth_eeg] = '3'	If partial response, please add any relevant notes:	notes
44	[acth_3] Show the field ONLY if: [acth] = '1'	Response at 3 months to ACTH, clinical observation? *EEG not required*	radio 	1	Full 14-day response sustained at 3 months
2	Full late response sustained at 3 months
3	Partial [CDKL5 cohort only]
4	None
6	Unknown
9	N/A	
45	[acth_part3] Show the field ONLY if: [acth_3] = '3'	If partial response, please clarify:	radio 	1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	

46	[acth_part4] Show the field ONLY if: [acth_3] = '3'	If partial response, please add any relevant notes:	notes
47	[acth_6] Show the field ONLY if: [acth] = '1'	Spasm control at 6 months (clinical observation)?	radio 1 Full 14-day response sustained at 6 months 2 Full late response sustained at 6 months 3 Partial [CDKL5 cohort only] 4 None 6 Unknown 9 N/A
48	[acth_part6] Show the field ONLY if: [acth_6] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 9 Unknown
49	[acth_part7] Show the field ONLY if: [acth_6] = '3'	If partial response, please add any relevant notes:	notes
50	[pred]	Section Header: *Prednisolone* Was prednisolone used at any point?	radio 1 Yes 2 No 9 Unknown
51	[pred_1] Show the field ONLY if: [pred] = '1'	Was prednisolone given as the first treatment for spasms?	radio 1 Yes 2 No 9 Unknown
52	[pred_age] Show the field ONLY if: [pred] = '1'	Age at treatment (months)? *integer*	text (integer)

53	[pred_max] Show the field ONLY if: [pred] = '1'	Max dose of prednisolone (in mg/kg/day): _ _._ *(mg/kg/day)*	text (number_1dp)
54	[pred_length] Show the field ONLY if: [pred] = '1'	Length of treatment at max dose (days): *integer*	text (integer)
55	[pred_clin] Show the field ONLY if: [pred] = '1'	Day 14 response to prednisolone, clinical observation only?	radio <table><tr><td>1</td><td>Full 14-day response</td></tr><tr><td>2</td><td>Late response after 14 days</td></tr><tr><td>3</td><td>Partial [CDKL5 cohort only]</td></tr><tr><td>4</td><td>None</td></tr><tr><td>5</td><td>Worsening</td></tr><tr><td>6</td><td>Unknown</td></tr><tr><td>9</td><td>N/A, did not complete 14 days of treatment</td></tr></table>
56	[pred_part14] Show the field ONLY if: [pred_clin] = '3'	If partial response, please clarify:	radio <table><tr><td>1</td><td>>50% reduction in spasms</td></tr><tr><td>2</td><td>< 50% reduction in spasms</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
57	[pred_part15] Show the field ONLY if: [pred_clin] = '3'	If partial response, please add any relevant notes:	notes

58	[pred_eeg] Show the field ONLY if: [pred] = '1'	Day 14+ response to prednisolone, with follow-up EEG data (2-4 weeks after starting)?	radio 	1	Full 14-day response
2	Late response after 14 days
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A	
59	[pred_part14plus] Show the field ONLY if: [pred_eeg] = '3'	If partial response, please clarify:	radio | 1	>50% reduction in spasms
2	< 50% reduction in spasms
3	Unknown	
60	[pred_part14plus_2] Show the field ONLY if: [pred_eeg] = '3'	If partial response, please add any relevant notes:	notes
61	[pred_3] Show the field ONLY if: [pred] = '1'	Response at 3 months to prednisolone, clinical observation? *EEG not required*	radio | 1	Full 14-day response sustained at 3 months
2	Full late response sustained at 3 months
3	Partial [CDKL5 cohort only]
4	None
6	Unknown
9	N/A	
62	[pred_part3] Show the field ONLY if: [pred_3] = '3'	If partial response, please clarify:	radio | 1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	

63	[pred_part4] Show the field ONLY if: [pred_3] = '3'	If partial response, please add any relevant notes:	notes
64	[pred_6] Show the field ONLY if: [pred] = '1'	Spasm control at 6 months (clinical observation)?	radio | 1	Full 14-day response sustained at 6 months
2	Full late response sustained at 6 months
3	Partial [CDKL5 cohort only]
4	None
6	Unknown
9	N/A	
65	[pred_part6] Show the field ONLY if: [pred_6] = '3'	If partial response, please clarify:	radio | 1	>50% reduction in spasms
2	< 50% reduction in spasms
3	Unknown	
66	[pred_part7] Show the field ONLY if: [pred_6] = '3'	If partial response, please add any relevant notes:	notes
67	[vgb]	Section Header: *Vigabatrin* Was vigabatrin used at any point?	radio | 1	Yes
2	No
9	Unknown	
68	[vgb_1] Show the field ONLY if: [vgb] = '1'	Was vigabatrin given as the first treatment for spasms?	radio | 1	Yes
2	No
9	Unknown	
69	[vgb_age] Show the field ONLY if: [vgb] = '1'	Age at treatment (months)? *integer*	text (integer)

70	[vgb_max] Show the field ONLY if: [vgb] = '1'	Max dose of vigabatrin (in mg/kg/d): _ _._ (mg/kg/d)	text (number_1dp)
71	[vgb_td] Show the field ONLY if: [vgb] = '1'	Time to max dose vigabatrin (days) or to VGB 150mg/kg/day: integer	text (integer)
72	[vgb_clin] Show the field ONLY if: [vgb] = '1'	Day 14 response to vigabatrin (14 days from max dose), clinical observation only?	radio | 1	Full 14-day response
2	Late response after 14 days
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A, did not complete 14 days of treatment	
73	[vgb_part14] Show the field ONLY if: [vgb_clin] = '3'	If partial response, please clarify:	radio | 1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	
74	[vgb_part15] Show the field ONLY if: [vgb_clin] = '3'	If partial response, please add any relevant notes:	notes

75	[vgb_eeg] Show the field ONLY if: [vgb] = '1'	Day 14+ response to vigabatrin (from max dose), with follow-up EEG data?	radio

			1	Full 14-day response
			2	Late response after 14 days
			3	Partial [CDKL5 cohort only]
			4	None
			5	Worsening
			6	Unknown
			9	N/A

76	[vgb_part14plus] Show the field ONLY if: [vgb_eeg] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms
			2	< 50% reduction in spasms
			9	Unknown

77	[vgb_part14plus_2] Show the field ONLY if: [vgb_eeg] = '3'	If partial response, please add any relevant notes:	notes

78	[vgb_3] Show the field ONLY if: [vgb] = '1'	Response at 3 months to vigabatrin, clinical observation? *EEG not required*	radio

			1	Full, 14 day response sustained at 3 months
			2	Full late response sustained at 3 months
			3	Partial [CDKL5 cohort only]
			4	None
			6	Unknown
			9	N/A

79	[vgb_part3] Show the field ONLY if: [vgb_3] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms
			2	< 50% reduction in spasms
			9	Unknown

80	[vgb_part4] Show the field ONLY if: [vgb_3] = '3'	If partial response, please add any relevant notes:	notes
81	[vgb_6] Show the field ONLY if: [vgb] = '1'	Spasm control at 6 months (clinical observation)?	radio <table><tr><td>1</td><td>Full 14-day response sustained at 6 months</td></tr><tr><td>2</td><td>Full late response sustained at 6 months</td></tr><tr><td>3</td><td>Partial [CDKL5 cohort only]</td></tr><tr><td>4</td><td>None</td></tr><tr><td>6</td><td>Unknown</td></tr><tr><td>9</td><td>N/A</td></tr></table>
82	[vgb_part6] Show the field ONLY if: [vgb_6] = '3'	If partial response, please clarify:	radio <table><tr><td>1</td><td>>50% reduction in spasms</td></tr><tr><td>2</td><td>< 50% reduction in spasms</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
83	[vgb_part7] Show the field ONLY if: [vgb_6] = '3'	If partial response, please add any relevant notes:	notes
84	[vgbh]	Section Header: *Combination Vigabatrin + Hormonal* Was vigabatrin + hormonal therapy (when started simultaneously) used at any point?	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
85	[vgbh_1] Show the field ONLY if: [vgbh] = '1'	Was vigabatrin + ACTH/prednisolone given as the first treatment for spasms?	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
86	[vgbh_age] Show the field ONLY if: [vgbh] = '1'	Age at treatment (months)? *integer*	text (integer)

87	[acth_or_pred] Show the field ONLY if: [vgbh] = '1'	Which hormonal therapy was used with vigabatrin (when started simultaneously)?	radio 	1	ACTH
2	Prednisolone	
88	[vgbh_max] Show the field ONLY if: [vgbh] = '1'	Max dose of vigabatrin (in mg/kg/d): _ _._ *(mg/kg/d)*	text (number_1dp)
89	[vgbh_td] Show the field ONLY if: [vgbh] = '1'	Time to max dose vigabatrin (days) or to VGB 150mg/kg/day: *integer*	text (integer)
90	[vgbh_acth] Show the field ONLY if: [acth_or_pred] = '1'	Max dose of ACTH (in units/m2) _ _._ *(units/m2)*	text (number_1dp)
91	[vgbh_pred] Show the field ONLY if: [acth_or_pred] = '2'	Max dose of prednisolone (in mg/kg/d) _ _._ *(mg/kg/d)*	text (number_1dp)
92	[vgbh_clin] Show the field ONLY if: [vgbh] = '1'	Day 14 response to combination vigabatrin + hormonal therapy (14 days from max dose), clinical observation only?	radio 	1	Full 14-day response
2	Late response after 14 days
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A, did not complete 14 days of treatment	
93	[vgbh_part14] Show the field ONLY if: [vgbh_clin] = '3'	If partial response, please clarify:	radio 	1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	

94	[vgbh_part15] Show the field ONLY if: [vgbh_clin] = '3'	If partial response, please add any relevant notes:	notes
95	[vgbh_eeg] Show the field ONLY if: [vgbh] = '1'	Day 14+ response to combination vigabatrin + hormonal therapy (from max dose), with follow-up EEG data?	radio 1 Full 14-day response 2 Late response after 14 days 3 Partial [CDKL5 cohort only] 4 None 5 Worsening 6 Unknown 9 N/A
96	[vgbh_part14plus] Show the field ONLY if: [vgbh_eeg] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 9 Unknown
97	[vgbh_part14plus_2] Show the field ONLY if: [vgbh_eeg] = '3'	If partial response, please add any relevant notes:	notes
98	[vgbh_3] Show the field ONLY if: [vgbh] = '1'	Response at 3 months to combination vigabatrin + hormonal therapy, clinical observation? *EEG not required*	radio 1 Full 14-day response sustained at 3 months 2 Full late response sustained at 3 months 3 Partial [CDKL5 cohort only] 4 None 6 Unknown 9 N/A

99	[vgbh_part3] Show the field ONLY if: [vgbh_3] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms

| | | | 2 | < 50% reduction in spasms |

| | | | 9 | Unknown |

100	[vgbh_part4] Show the field ONLY if: [vgbh_3] = '3'	If partial response, please add any relevant notes:	notes

101	[vgbh_6] Show the field ONLY if: [vgbh] = '1'	Spasm control at 6 months (clinical observation)?	radio

			1	Full 14-day response sustained at 6 months

			2	Full late response sustained at 6 months
			3	Partial [CDKL5 cohort only]
			4	None
			6	Unknown
			9	N/A

102	[vgbh_part6] Show the field ONLY if: [vgbh_6] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms

| | | | 2 | < 50% reduction in spasms |
| | | | 9 | Unknown |

103	[vgbh_part7] Show the field ONLY if: [vgbh_6] = '3'	If partial response, please add any relevant notes:	notes

104	[keto]	Section Header: *Ketogenic Diet* Was the ketogenic diet used within 3 months of spasms onset? (assessed at 1 month after initiation) *Only answer "Yes" if diet was started within three months of spasms onset*	radio

			1	Yes

| | | | 2 | No |
| | | | 9 | Unknown |

105	[keto_start] Show the field ONLY if: [keto] = '1'	After how many 1st line treatments was it initiated?	radio 	0	0
1	1
2	2
3	3	
106	[keto_age] Show the field ONLY if: [keto] = '1'	Age at treatment (months)? *integer*	text (integer)
107	[keto_ratio] Show the field ONLY if: [keto] = '1'	Maintenance ratio: *e.g. 3:1*	text
108	[keto_clin] Show the field ONLY if: [keto] = '1'	1-month response after ketogenic diet initiation, clinical observation only?	radio 	1	Full response
2	Late response after 1 month
3	Partial [CDKL5 cohort only]
4	None
5	Worsening
6	Unknown
9	N/A	
109	[keto_part14] Show the field ONLY if: [keto_clin] = '3'	If partial response, please clarify:	radio 	1	>50% reduction in spasms
2	< 50% reduction in spasms
9	Unknown	
110	[keto_part15] Show the field ONLY if: [keto_clin] = '3'	If partial response, please add any relevant notes:	notes

111	[keto_eeg] Show the field ONLY if: [keto] = '1'	1-month response after ketogenic diet initiation, with follow-up EEG?	radio 1 Full response 2 Late response after 1 month 3 Partial [CDKL5 cohort only] 4 None 5 Worsening 6 Unknown 9 N/A
112	[keto_part14plus] Show the field ONLY if: [keto_eeg] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 3 Unknown
113	[keto_part14plus_2] Show the field ONLY if: [keto_eeg] = '3'	If partial response, please add any relevant notes:	notes
114	[keto_3] Show the field ONLY if: [keto] = '1'	Response at 3 months to ketogenic diet, clinical observation? *EEG not required*	radio 1 Full 1-month response sustained at 3 months 2 Full late response sustained at 3 months 3 Partial [CDKL5 cohort only] 4 None 6 Unknown 9 N/A
115	[keto_part3] Show the field ONLY if: [keto_3] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 9 Unknown

116	[keto_part4] Show the field ONLY if: [keto_3] = '3'	If partial response, please add any relevant notes:	notes
117	[keto_6] Show the field ONLY if: [keto] = '1'	Spasm control at 6 months (clinical observation)?	radio 1 Full response sustained at 6 months 2 Full late response sustained at 6 months 3 Partial [CDKL5 cohort only] 4 None 6 Unknown 9 N/A
118	[keto_part6] Show the field ONLY if: [keto_6] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 9 Unknown
119	[keto_part7] Show the field ONLY if: [keto_6] = '3'	If partial response, please add any relevant notes:	notes
120	[keto_late]	Late use of keto: Was the ketogenic diet initiated after 3 months of spasms onset?	radio 1 Yes 2 No 3 Unknown
121	[keto_late_start] Show the field ONLY if: [keto_late] = '1'	After how many 1st line treatments was it initiated?	radio 0 0 1 1 2 2 3 3

122	[keto_late_age] Show the field ONLY if: [keto_late] = '1'	Age at keto initiation (months)? *integer*	text (integer)
123	[keto_late_ratio] Show the field ONLY if: [keto_late] = '1'	Maintenance ratio: *e.g. 3:1*	text
124	[keto_late_clin] Show the field ONLY if: [keto_late] = '1'	1-month response after ketogenic diet initiation, clinical observation only?	radio <table><tr><td>1</td><td>Full response</td></tr><tr><td>2</td><td>Late response after 1 month</td></tr><tr><td>3</td><td>Partial [CDKL5 cohort only]</td></tr><tr><td>4</td><td>None</td></tr><tr><td>5</td><td>Worsening</td></tr><tr><td>6</td><td>Unknown</td></tr><tr><td>9</td><td>N/A</td></tr></table>
125	[keto_late_clin_partial] Show the field ONLY if: [keto_late_clin] = '3'	If partial response, please clarify:	radio <table><tr><td>1</td><td>>50% reduction in spasms</td></tr><tr><td>2</td><td>< 50% reduction in spasms</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
126	[keto_late_clin_partial_2] Show the field ONLY if: [keto_late_clin] = '3'	If partial response, please add any relevant notes:	notes

127	[keto_late_eeg] Show the field ONLY if: [keto_late] = '1'	1-month response after ketogenic diet initiation, with follow-up EEG?	radio

			1	Full response
			2	Late response after 1 month
			3	Partial [CDKL5 cohort only]
			4	None
			5	Worsening
			6	Unknown
			9	N/A

128	[keto_late_eeg_partial] Show the field ONLY if: [keto_late_eeg] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms
			2	< 50% reduction in spasms
			9	Unknown

129	[keto_late_eeg_partial_2] Show the field ONLY if: [keto_late_eeg] = '3'	If partial response, please add any relevant notes:	notes

130	[keto_late_3m] Show the field ONLY if: [keto_late] = '1'	Response at 3 months to ketogenic diet, clinical observation? *EEG not required*	radio

			1	Full 1-month response sustained at 3 months
			2	Full late response sustained at 3 months
			3	Partial [CDKL5 cohort only]
			4	None
			6	Unknown
			9	N/A

131	[keto_late_3m_partial] Show the field ONLY if: [keto_late_3m] = '3'	If partial response, please clarify:	radio

			1	>50% reduction in spasms
			2	< 50% reduction in spasms
			3	Unknown

132	[keto_late_3m_partial_2] Show the field ONLY if: [keto_late_3m] = '3'	If partial response, please add any relevant notes:	notes
133	[keto_late_6m] Show the field ONLY if: [keto_late] = '1'	Spasm control at 6 months (clinical observation)?	radio 1 Full response sustained at 6 months 2 Full late response sustained at 6 months 3 Partial [CDKL5 cohort only] 4 None 6 Unknown 9 N/A
134	[keto_late_6m_partial] Show the field ONLY if: [keto_late_6m] = '3'	If partial response, please clarify:	radio 1 >50% reduction in spasms 2 < 50% reduction in spasms 3 Unknown
135	[keto_late_6m_partial_2] Show the field ONLY if: [keto_late_6m] = '3'	If partial response, please add any relevant notes:	notes
136	[post1]	Section Header: *Post-treatment EEG information* Initial 1st line treatment of spasms?	radio 1 ACTH 2 Prednisolone 3 Vigabatrin 4 Combination vigabatrin + ACTH/prednisolone 5 Other
137	[post1_other] Show the field ONLY if: [post1] = '5'	If other, please explain:	text

138	[post1_av]	Was there a post-treatment EEG after initial 1st line treatment of spasms (ACTH or prednisolone, or max dose of vigabatrin)? *Maximum 6 weeks post*	radio

1	Yes
2	No
9	Unknown

139	[post1_ef] Show the field ONLY if: [post1_av] = '1'	EEG features: *select all that apply*	checkbox

2	post1_ef___2	Hypsarrhythmia
3	post1_ef___3	Modified hypsarrhythmia
4	post1_ef___4	Other
5	post1_ef___5	Normal
6	post1_ef___6	Any Abnormality (NISC)

140	[post1_efother] Show the field ONLY if: [post1_ef(4)] = '1'	If other, check all that apply:	checkbox

1	post1_efother___1	Burst suppression
2	post1_efother___2	Generalized slowing
3	post1_efother___3	Focal slowing
4	post1_efother___4	Normal PDR and sleep features
5	post1_efother___5	Abnormal PDR
6	post1_efother___6	Abnormal sleep features

141	[post1_efother_2] Show the field ONLY if: [post1_ef(4)] = '1'	If other, please add any relevant notes:	notes

142	[post1_efinterictal] Show the field ONLY if: [post1_ef(4)] = '1' or [post1_ef(6)] = '1'	Do any of the following interictal activities apply:	radio

radio

0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

143	[post1_edata] Show the field ONLY if: [post1_av] = '1'	Is the primary (raw) EEG data available for review?	radio

1	Yes
2	No

144	[post1_base] Show the field ONLY if: [post1_edata] = '1'	If primary EEG data is available for review, please provide the BASED score for the EEG at spasms onset (prior to treatment). Review score as outlined below (BASED score description guide), based on the most severely abnormal 5 minute sleep epoch available from files:	radio

2	< =2
3	3
4	4
5	5
9	N/A

145	[post1_bc] Show the field ONLY if: [post1_edata] = '1'	Specify how criteria are met, as outlined below (BASED score description guide):	text
146	[basedscoreimage2] Show the field ONLY if: [post1_edata] = '1'	BASED score description guide:	descriptive

147	[post2]	Was there a 2nd (1st line) treatment for spasms?	radio

			1	Yes
			2	No
			9	Unknown

148	[post2_med] Show the field ONLY if: [post2] = '1'	Second (1st line) treatment for spasms?	radio

			1	ACTH
			2	Prednisolone
			3	Vigabatrin
			4	Combination vigabatrin + ACTH/prednisolone
			5	Other

149	[post2_other] Show the field ONLY if: [post2_med] = '5'	If other, please explain:	text

150	[post2_e] Show the field ONLY if: [post2] = '1'	Was there a post-treatment EEG (after starting ACTH or prednisolone, or max dose of vigabatrin)? *Maximum 6 weeks post*	radio

			1	Yes
			2	No
			9	Unknown

151	[post2_ef] Show the field ONLY if: [post2_e] = '1'	EEG features: *select all that apply*	checkbox

			2	post2_ef___2	Hypsarrhythmia
			3	post2_ef___3	Modified hypsarrhythmia
			4	post2_ef___4	Other
			5	post2_ef___5	Normal
			6	post2_ef___6	Any abnormality [NISC cohort only]

152	[post2_efother] Show the field ONLY if: [post2_ef(4)] = '1'	If other, please check all that apply:	checkbox

			1	post2_efother___1	Burst suppression
			2	post2_efother___2	Generalized slowing
			3	post2_efother___3	Focal slowing
			4	post2_efother___4	Normal PDR and sleep features
			5	post2_efother___5	Abnormal PDR
			6	post2_efother___6	Abnormal sleep features

153	[post2_efother_2] Show the field ONLY if: [post2_ef(4)] = '1'	If other, please add any relevant notes:	notes

154	[post2_efinterictal] Show the field ONLY if: [post2_ef(4)] = '1' or [post2_ef(6)] = '1'	Do any of the following interictal activities apply:	radio

0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

155	[post2_edata] Show the field ONLY if: [post2_e] = '1'	Is the primary (raw) EEG data available for review?	radio

1	Yes
2	No

156	[post2_base] Show the field ONLY if: [post2_edata] = '1'	If primary EEG data is available for review, please provide the BASED score for the EEG at spasms onset (prior to treatment). Review score as outlined below (BASED score description guide), based on the most severely abnormal 5 minute sleep epoch available from files:	radio 	2	< =2
3	3
4	4
5	5
9	N/A	
157	[post2_bc] Show the field ONLY if: [post2_edata] = '1'	Specify how criteria are met, as outlined below (BASED score description guide):	text
158	[basedscoreimage3] Show the field ONLY if: [post2_edata] = '1'	BASED score description guide:	descriptive
159	[post3]	Was there a 3rd (1st line) treatment for spasms?	radio | 1	Yes
2	No
9	Unknown	
160	[post3_med] Show the field ONLY if: [post3] = '1'	Third (1st line) treatment of spasms?	radio | 1	ACTH
2	Prednisolone
3	Vigabatrin
4	Combination vigabatrin + ACTH/prednisolone
5	Other	
161	[post3_other] Show the field ONLY if: [post3_med] = '5'	If other, please explain:	text

| 162 | [post3_e]

Show the field ONLY if:
[post3] = '1' | Was there a post-treatment EEG (after starting ACTH or prednisolone, or max dose of vigabatrin)?
Maximum 6 weeks post | radio

| 1 | Yes |
| 2 | No |
9	Unknown	
163	[post3_ef] Show the field ONLY if: [post3_e] = '1'	EEG features: *select all that apply*	checkbox | 2	post3_ef___2	Hypsarrhythmia
3	post3_ef___3	Modified hypsarrhythmia
4	post3_ef___4	Other
5	post3_ef___5	Normal
6	post3_ef___6	Any abnormality [NISC cohort only]	
164	[post3_efother] Show the field ONLY if: [post3_ef(4)] = '1'	If other, please check all that apply:	checkbox | 1	post3_efother___1	Burst suppression
2	post3_efother___2	Generalized slowing
3	post3_efother___3	Focal slowing
4	post3_efother___4	Normal PDR and sleep features
5	post3_efother___5	Abnormal PDR
6	post3_efother___6	Abnormal sleep features	
165	[post3_efother_2] Show the field ONLY if: [post3_ef(4)] = '1'	If other, please add any relevant notes:	notes

166	[post3_efinterictal] Show the field ONLY if: [post3_ef(4)] = '1' or [post3_ef(6)] = '1'	Do any of the following interictal activities apply:	radio 	0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available	
167	[post3_edata] Show the field ONLY if: [post3_e] = '1'	Is the primary (raw) EEG data available for review?	radio | 1	Yes
2	No	
168	[post3_base] Show the field ONLY if: [post3_edata] = '1'	If primary EEG data is available for review, please provide the BASED score for the EEG at spasms onset (prior to treatment). Review score as outlined below (BASED score description guide), based on the most severely abnormal 5 minute sleep epoch available from files:	radio | 2	< =2
3	3
4	4
5	5
9	N/A	
169	[post3_bc] Show the field ONLY if: [post3_edata] = '1'	Specify how criteria are met, as outlined below (BASED score description guide):	text
170	[basedscoreimage4] Show the field ONLY if: [post3_edata] = '1'	BASED score description guide:	descriptive
171	[postketo]	Were they on the ketogenic diet?	radio | 1	Yes
2	No	

| 172 | [postketo_e]

Show the field ONLY if:
[postketo] = '1' | Was there an EEG after ketogenic diet (at ~1 month after starting diet) - this question also applies to late use of keto: | radio

| 1 | Yes |
| 2 | No |
9	Unknown	
173	[postketo_ef] Show the field ONLY if: [postketo_e] = '1'	EEG after ketogenic diet: *select all that apply*	checkbox | 2	postketo_ef___2	Hypsarrhythmia
3	postketo_ef___3	Modified hypsarrhythmia
4	postketo_ef___4	Other
5	postketo_ef___5	Normal
6	postketo_ef___6	Any abnormality [NISC cohort only]	
174	[postketo_efother] Show the field ONLY if: [postketo_ef(4)] = '1'	If other, please check all that apply:	checkbox | 1	postketo_efother___1	Burst suppression
2	postketo_efother___2	Generalized slowing
3	postketo_efother___3	Focal slowing
4	postketo_efother___4	Normal PDR and sleep features
5	postketo_efother___5	Abnormal PDR
6	postketo_efother___6	Abnormal sleep features	
175	[postketo_efother_2] Show the field ONLY if: [postketo_ef(4)] = '1'	If other, please add any relevant notes:	notes

176	[postketo_efinterictal] Show the field ONLY if: [postketo_ef(4)] = '1' or [postketo_ef(6)] = '1'	Do any of the following interictal activities apply:	radio
			0 None
			1 Multifocal (3 or more foci, independent from both hemispheres)
			3 Single focus
			4 Two foci only
			5 Hemispheric
			6 Generalized
			7 Generalized plus focal/multifocal
			9 Not available
177	[postketo_edata] Show the field ONLY if: [postketo_e] = '1'	Is the primary (raw) EEG data available for review?	radio 1 Yes 2 No
178	[postketo_base] Show the field ONLY if: [postketo_edata] = '1'	If primary EEG data is available for review, please provide the BASED score for the EEG at spasms onset (prior to treatment). Review score as outlined below (Based score description guide), based on the most severely abnormal 5 minute sleep epoch available from files:	radio 2 < =2 3 3 4 4 5 5 9 N/A
179	[postketo_bc] Show the field ONLY if: [postketo_edata] = '1'	Specify how criteria are met, as outlined below (BASED score description guide):	text
180	[basedscore5] Show the field ONLY if: [postketo_edata] = '1'	BASED score description guide:	descriptive
181	[nisc_posteeg] Show the field ONLY if: [cdkl5_var] = "2"	Section Header: *Post-Treatment EEG Information NISC* Is there post-treatment EEG information for the control patient?	radio 1 Yes 2 No

182	[nisc_eegfeatures] Show the field ONLY if: [nisc_posteeg]='1' and [cdkl5_var] = "2"	EEG features:	checkbox		
			2	nisc_eegfeatures___2	Hypsarrhythmia
			3	nisc_eegfeatures___3	Modified hypsarrhythmia
			4	nisc_eegfeatures___4	Other
			5	nisc_eegfeatures___5	Normal
			6	nisc_eegfeatures___6	Any abnormality [NISC]
183	[nisc_eegfeatures_2] Show the field ONLY if: [nisc_eegfeatures(4)] = '1' and [cdkl5_var] = "2"	If other, please add any relevant notes:	notes		
184	[nisc_background] Show the field ONLY if: [nisc_posteeg]='1' and [cdkl5_var] = "2"	Check any background information that applies:	checkbox		
			1	nisc_background___1	Burst suppression
			2	nisc_background___2	Generalized slowing
			3	nisc_background___3	Focal slowing
			4	nisc_background___4	Normal PDR and sleep features
			5	nisc_background___5	Abnormal PDR
			6	nisc_background___6	Abnormal sleep features
185	[nisc_interictal] Show the field ONLY if: [nisc_posteeg]='1' and [cdkl5_var] = "2"	Do any of the following interictal activities apply?	radio	
			0	None
			1	Multifocal (3 or more foci, independent from both hemispheres)
			3	Single focus
			4	Two foci only
			5	Hemispheric
			6	Generalized
			7	Generalized plus focal/multifocal
			9	Not available

| 186 | [spasm_free] | Section Header: *Long term control and 2nd line treatments*

Spasm free for greater than 3 months at last follow-up (okay if prior relapse)? | radio

| 1 | Yes |
| 2 | No |
9	Unknown	
187	[spasm_freeonset] Show the field ONLY if: [spasm_free] = '1'	If yes, what was the time to spasm freedom from onset (days): *integer*	text (integer)
188	[response]	Was there a full response to ACTH, prednisolone and /or vigabatrin? *Only answer "Yes" if FULL response*	radio | 1	Yes
2	No	
189	[relapse] Show the field ONLY if: [response] = '1'	If there was full response, was there relapse (any recurrence of cluster of more than one spasm after being a responder)?	radio | 1	Yes
2	No	
190	[relapse_age] Show the field ONLY if: [relapse] = '1'	If there was a relapse, at what age (in months)? *integer*	text (integer)
191	[spasms_age]	Age of last known spasms (in months): *integer*	text (integer)
192	[resp_line2]	Did the child have full response to 2nd line medications for spasms (2-4 weeks from max dose)? *2nd line = Any ASM other than ACTH, prednisolone or vigabatrin, given for spasms*	radio | 1	Yes
2	No
0	N/A (was not on any second-line medications for spasms)
9	Unknown	

193	[resp_med2] Show the field ONLY if: [resp_line2] = '1'	If yes, check all that apply:	checkbox

			1	resp_med2___1	Topiramate
			2	resp_med2___2	Clobazam
			3	resp_med2___3	Valproic Acid
			4	resp_med2___4	Rufinamide
			5	resp_med2___5	Levetiracetam
			6	resp_med2___6	Other
			7	resp_med2___7	Unknown

194	[topiramate_eeg2] Show the field ONLY if: [resp_med2(1)] = '1'	Was there an EEG after treatment with topiramate?	radio

			1	Yes
			2	No
			9	Unknown

195	[topiramate_feature2] Show the field ONLY if: [topiramate_eeg2] = '1'	If yes, check all that apply: *select all that apply*	checkbox

			2	topiramate_feature2___2	Hypsarrhythmia
			3	topiramate_feature2___3	Modified hypsarrhythmia
			4	topiramate_feature2___4	Other
			5	topiramate_feature2___5	Normal
			6	topiramate_feature2___6	Any Abnormality [NISC cohort only]

196	[topiramate_other2] Show the field ONLY if: [topiramate_feature2(4)] = '1'	If other, please check all that apply:	checkbox		
			1	topiramate_other2___1	Burst suppression
			2	topiramate_other2___2	Generalized slowing
			3	topiramate_other2___3	Focal slowing
			4	topiramate_other2___4	Normal PDR and sleep features
			5	topiramate_other2___5	Abnormal PDR
			6	topiramate_other2___6	Abnormal sleep features
197	[topiramate_other3] Show the field ONLY if: [topiramate_feature2(4)] = '1'	If other, please add any relevant notes:	notes		
198	[topiramate_interictal2] Show the field ONLY if: [topiramate_feature2(4)] = '1' or [topiramate_feature2(6)] = '1'	Do any of the following interictal activities apply?	radio		
			0	None	
			1	Multifocal (3 or more foci, independent from both hemispheres)	
			3	Single focus	
			4	Two foci only	
			5	Hemispheric	
			6	Generalized	
			7	Generalized plus focal/multifocal	
			9	Not available	
199	[clobazam_eeg2] Show the field ONLY if: [resp_med2(2)] = '1'	Was there an EEG after treatment with clobazam?	radio		
			1	Yes	
			2	No	
			9	Unknown	

200	[clobazam_feature2] Show the field ONLY if: [clobazam_eeg2] = '1'	If yes, check all that apply: *select all that apply*	checkbox

2	clobazam_feature2___2	Hypsarrhythmia
3	clobazam_feature2___3	Modified hypsarrhythmia
4	clobazam_feature2___4	Other
5	clobazam_feature2___5	Normal
6	clobazam_feature2___6	Any abnormality [NISC cohort only]

201	[clobazam_other2] Show the field ONLY if: [clobazam_feature2(4)] = '1'	If other, please check all that apply:	checkbox

1	clobazam_other2___1	Burst suppression
2	clobazam_other2___2	Generalized slowing
3	clobazam_other2___3	Focal slowing
4	clobazam_other2___4	Normal PDR and sleep features
5	clobazam_other2___5	Abnormal PDR
6	clobazam_other2___6	Abnormal sleep features

202	[clobazam_other3] Show the field ONLY if: [clobazam_feature2(4)] = '1'	If other, please add any relevant notes:	notes

203	[clobazam_interictal2] Show the field ONLY if: [clobazam_feature2(4)] = '1' or [clobazam_feature2(6)] = '1'	Do any of the following interictal activities apply?	radio

0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

| 204 | [valproic_eeg2]

Show the field ONLY if:
[resp_med2(3)] = '1' | Was there an EEG after treatment with valproic acid? | radio

| 1 | Yes |
| 2 | No |
9	Unknown	
205	[valproic_feature2] Show the field ONLY if: [valproic_eeg2] = '1'	If yes, check all that apply: *select all that apply*	checkbox | 2	valproic_feature2___2	Hypsarrhythmia
3	valproic_feature2___3	Modified hypsarrhythmia
4	valproic_feature2___4	Other
5	valproic_feature2___5	Normal
6	valproic_feature2___6	Any abnormality [NISC cohort only]	
206	[valproic_other2] Show the field ONLY if: [valproic_feature2(4)] = '1'	If other, please check all that apply:	checkbox | 1	valproic_other2___1	Burst suppression
2	valproic_other2___2	Generalized slowing
3	valproic_other2___3	Focal slowing
4	valproic_other2___4	Normal PDR and sleep features
5	valproic_other2___5	Abnormal PDR
6	valproic_other2___6	Abnormal sleep features	
207	[valproic_other3] Show the field ONLY if: [valproic_feature2(4)] = '1'	If other, please add any relevant notes:	notes

208	[valproic_interictal2] Show the field ONLY if: [valproic_feature2(4)] = '1' or [valproic_feature2(6)] = '1'	Do any of the following interictal activities apply?	radio

radio

0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

209	[rufinamide_eeg2] Show the field ONLY if: [resp_med2(4)] = '1'	Was there an EEG after treatment with rufinamide?	radio

radio

1	Yes
2	No
9	Unknown

210	[rufinamide_feature2] Show the field ONLY if: [rufinamide_eeg2] = '1'	If yes, check all that apply: *select all that apply*	checkbox

checkbox

2	rufinamide_feature2___2	Hypsarrhythmia
3	rufinamide_feature2___3	Modified hypsarrhythmia
4	rufinamide_feature2___4	Other
5	rufinamide_feature2___5	Normal
6	rufinamide_feature2___6	Any abnormality [NISC cohort only]

211	[rufinamide_other2] Show the field ONLY if: [rufinamide_feature2(4)] = '1'	If other, please check all that apply:	checkbox		
			1	rufinamide_other2___1	Burst suppression
			2	rufinamide_other2___2	Generalized slowing
			3	rufinamide_other2___3	Focal slowing
			4	rufinamide_other2___4	Normal PDR and sleep features
			5	rufinamide_other2___5	Abnormal PDR
			6	rufinamide_other2___6	Abnormal sleep features

212	[rufinamide_other3] Show the field ONLY if: [rufinamide_feature2(4)] = '1'	If other, please add any relevant notes:	notes

213	[rufinamide_interictal2] Show the field ONLY if: [rufinamide_feature2(4)] = '1' or [rufinamide_feature2(6)] = '1'	Do any of the following interictal activities apply?	radio	
			0	None
			1	Multifocal (3 or more foci, independent from both hemispheres)
			3	Single focus
			4	Two foci only
			5	Hemispheric
			6	Generalized
			7	Generalized plus focal/multifocal
			9	Not available

214	[levetiracetam_eeg2] Show the field ONLY if: [resp_med2(5)] = '1'	Was there an EEG after treatment with levetiracetam?	radio	
			1	Yes
			2	No
			9	Unknown

| 215 | [levetiracetam_feature2] Show the field ONLY if: [levetiracetam_eeg2] = '1' | If yes, check all that apply: *select all that apply* | checkbox |

					2	levetiracetam_feature2___2	Hypsarrhythmia
					3	levetiracetam_feature2___3	Modified hypsarrhythmia
					4	levetiracetam_feature2___4	Other
					5	levetiracetam_feature2___5	Normal
					6	levetiracetam_feature2___6	Any abnormality [NISC cohort only]

| 216 | [levetiracetam_other2] Show the field ONLY if: [levetiracetam_feature2(4)] = '1' | If other, please check all that apply: | checkbox |

					1	levetiracetam_other2___1	Burst suppression
					2	levetiracetam_other2___2	Generalized slowing
					3	levetiracetam_other2___3	Focal slowing
					4	levetiracetam_other2___4	Normal PDR and sleep features
					5	levetiracetam_other2___5	Abnormal PDR
					6	levetiracetam_other2___6	Abnormal sleep features

| 217 | [levetiracetam_other3] Show the field ONLY if: [levetiracetam_feature2(4)] = '1' | If other, please add any relevant notes: | notes |

218	[levetiracetam_interictal2] Show the field ONLY if: [levetiracetam_feature2(4)] = '1' or [levetiracetam_feature2 (6)] = '1'	Do any of the following interictal activities apply?	radio

	None
0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

219	[med_other2] Show the field ONLY if: [resp_med2(6)] = '1'	If other, please explain:	text

220	[other_eeg2] Show the field ONLY if: [resp_med2(6)] = '1'	Was there an EEG after treatment with the medication listed?	radio

1	Yes
2	No
9	Unknown

221	[other_feature2] Show the field ONLY if: [other_eeg2] = '1'	If yes, check all that apply: *select all that apply*	checkbox

2	other_feature2___2	Hypsarrhythmia
3	other_feature2___3	Modified hypsarrhythmia
4	other_feature2___4	Other
5	other_feature2___5	Normal
6	other_feature2___6	Any abnormality [NISC cohort only]

222	[other_other2] Show the field ONLY if: [other_feature2(4)] = '1'	If other, please check all that apply:	checkbox

			1	other_other2___1	Burst suppression
			2	other_other2___2	Generalized slowing
			3	other_other2___3	Focal slowing
			4	other_other2___4	Normal PDR and sleep features
			5	other_other2___5	Abnormal PDR
			6	other_other2___6	Abnormal sleep features

223	[other_other3] Show the field ONLY if: [other_feature2(4)] = '1'	If other, please add any relevant notes:	notes

224	[other_interictal2] Show the field ONLY if: [unknown_feature2(4)] = '1' or [unknown_feature2(6)] = '1'	Do any of the following interictal activities apply?	radio

			0	None
			1	Multifocal (3 or more foci, independent from both hemispheres)
			3	Single focus
			4	Two foci only
			5	Hemispheric
			6	Generalized
			7	Generalized plus focal/multifocal
			9	Not available

225	[unknown_eeg2] Show the field ONLY if: [resp_med2(7)] = '1'	Was there an EEG after treatment with the unknown medication?	radio

			1	Yes
			2	No
			9	Unknown

| 226 | [unknown_feature2]

Show the field ONLY if:
[unknown_eeg2] = '1' | If yes, check all that apply:
select all that apply | checkbox |

2	unknown_feature2___2	Hypsarrhythmia
3	unknown_feature2___3	Modified hypsarrhythmia
4	unknown_feature2___4	Other
5	unknown_feature2___5	Normal
6	unknown_feature2___6	Any abnormality [NISC cohort only]

| 227 | [unknown_other2]

Show the field ONLY if:
[unknown_feature2(4)] = '1' | If other, please check all that apply: | checkbox |

1	unknown_other2___1	Burst suppression
2	unknown_other2___2	Generalized slowing
3	unknown_other2___3	Focal slowing
4	unknown_other2___4	Normal PDR and sleep features
5	unknown_other2___5	Abnormal PDR
6	unknown_other2___6	Abnormal sleep features

| 228 | [unknown_other3]

Show the field ONLY if:
[unknown_feature2(4)] = '1' | If other, please add any relevant notes: | notes |

| 229 | [unknown_interictal2]

Show the field ONLY if:
[unknown_feature2(4)] = '1' or [unknown_feature2(6)] = '1' | Do any of the following interictal activities apply? | radio |

0	None
1	Multifocal (3 or more foci, independent from both hemispheres)
3	Single focus
4	Two foci only
5	Hemispheric
6	Generalized
7	Generalized plus focal/multifocal
9	Not available

230	[part_resp2]	Did the child have partial response to 2nd line medications for spasms? [CDKL5 cohort only]	radio
			1 Yes
			2 No
			0 N/A (was not on any second-line medications for spasms)
			9 Unknown

231	[part_med2]	If yes check all that apply:	checkbox
	Show the field ONLY if: [part_resp2] = '1'		1 part_med2___1 Topiramate
			2 part_med2___2 Clobazam
			3 part_med2___3 Valproic Acid
			4 part_med2___4 Rufinamide
			5 part_med2___5 Levetiracetam
			6 part_med2___6 Other
			7 part_med2___7 Unknown

232	[part_med3]	If other, please specify name of medication:	notes
	Show the field ONLY if: [part_med2(6)] = '1'		

233	[dev_regress]	Section Header: *Development* Was there developmental regression?	radio
			1 Yes
			2 No
			9 Unknown

234	[dev_regress_spasm]	If yes, was the developmental regression associated with spasms?	radio
	Show the field ONLY if: [dev_regress] = '1'		1 Yes
			2 No
			9 Unknown

235	[pre_spasms]	Section Header: *Seizures prior to spasms* Seizures (other types) prior to spasms?	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
236	[gen_mot] Show the field ONLY if: [pre_spasms] = '1'	Did they have generalized onset seizures, motor? (prior to spasms)	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Unknown</td></tr></table>
237	[gen_mottyp] Show the field ONLY if: [gen_mot] = '1'	If yes, check all that apply:	checkbox <table><tr><td>1</td><td>gen_mottyp___1</td><td>Tonic-clonic</td></tr><tr><td>2</td><td>gen_mottyp___2</td><td>Clonic</td></tr><tr><td>3</td><td>gen_mottyp___3</td><td>Tonic</td></tr><tr><td>4</td><td>gen_mottyp___4</td><td>Myoclonic</td></tr><tr><td>5</td><td>gen_mottyp___5</td><td>Myoclonic-tonic-clonic</td></tr><tr><td>6</td><td>gen_mottyp___6</td><td>Myoclonic-atonic</td></tr><tr><td>7</td><td>gen_mottyp___7</td><td>Atonic</td></tr><tr><td>8</td><td>gen_mottyp___8</td><td>Spasms</td></tr><tr><td>9</td><td>gen_mottyp___9</td><td>Unknown subtype</td></tr></table>
238	[gen_nmot] Show the field ONLY if: [pre_spasms] = '1'	Did they have generalized onset seizures, nonmotor (absence)? (prior to spasms)	radio <table><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Unknown</td></tr></table>

239	[gen_nmottyp] Show the field ONLY if: [gen_nmot] = '1'	If yes, check all that apply:	checkbox

			1	gen_nmottyp___1	Typical
			2	gen_nmottyp___2	Atypical
			3	gen_nmottyp___3	Myoclonic
			4	gen_nmottyp___4	Eyelid myoclonic
			5	gen_nmottyp___5	Unknown subtype

240	[foc_sz] Show the field ONLY if: [pre_spasms] = '1'	Did they have focal seizures? (prior to spasms)	radio

			1	Yes
			2	No
			9	Unknown

241	[foc_typ] Show the field ONLY if: [foc_sz] = '1'	If yes, check all that apply:	checkbox

			1	foc_typ___1	Aware
			2	foc_typ___2	Impaired awareness
			3	foc_typ___3	Unknown subtype
			4	foc_typ___4	Motor onset
			5	foc_typ___5	Non-motor onset
			6	foc_typ___6	Focal to bilateral tonic clonic

242	[unknown] Show the field ONLY if: [pre_spasms] = '1'	Did they have seizures of unknown onset? (prior to spasms)	radio

			1	Yes
			2	No
			9	Unknown

243	[unknown_typ] Show the field ONLY if: [unknown] = '1'	If yes, check all that apply:	checkbox

			1	unknown_typ___1	Motor, tonic-clonic
			2	unknown_typ___2	Motor, epileptic spasms
			3	unknown_typ___3	Nonmotor, behavioral arrest
			4	unknown_typ___4	Unclassified

| 244 | [post_spasms] | Section Header: *Seizures post spasms*

Seizures (other types) post spasms? | radio

| 1 | Yes |
| 2 | No |
9	Unknown	
245	[p_gen_mot] Show the field ONLY if: [post_spasms] = '1'	Did they have generalized onset seizures, motor? (post-spasms)	radio 	1	Yes
2	No
9	Unknown	
246	[p_gen_mottyp] Show the field ONLY if: [p_gen_mot] = '1'	If yes, check all that apply:	checkbox | 1	p_gen_mottyp___1	Tonic-clonic
2	p_gen_mottyp___2	Clonic
3	p_gen_mottyp___3	Tonic
4	p_gen_mottyp___4	Myoclonic
5	p_gen_mottyp___5	Myoclonic-tonic-clonic
6	p_gen_mottyp___6	Myoclonic-atonic
7	p_gen_mottyp___7	Atonic
8	p_gen_mottyp___8	Spasms
9	p_gen_mottyp___9	Unknown subtype	
247	[p_gen_nmot] Show the field ONLY if: [post_spasms] = '1'	Did they have generalized onset seizures, nonmotor (absence)? (post-spasms)	radio 	1	Yes
2	No
9	Unknown	

248	[p_gen_nmottyp] Show the field ONLY if: [p_gen_nmot] = '1'	If yes, check all that apply:	checkbox

			1	p_gen_nmottyp___1	Typical
2	p_gen_nmottyp___2	Atypical
3	p_gen_nmottyp___3	Myoclonic
4	p_gen_nmottyp___4	Eyelid myoclonic
5	p_gen_nmottyp___5	Unknown subtype

249	[p_foc_sz] Show the field ONLY if: [post_spasms] = '1'	Did they have focal seizures? (post-spasms)	radio

1	Yes
2	No
9	Unknown

250	[p_foc_typ] Show the field ONLY if: [p_foc_sz] = '1'	If yes, check all that apply:	checkbox

1	p_foc_typ___1	Aware
2	p_foc_typ___2	Impaired awareness
3	p_foc_typ___3	Unknown subtype
4	p_foc_typ___4	Motor onset
5	p_foc_typ___5	Non-motor onset
6	p_foc_typ___6	Focal to bilateral tonic clonic

251	[p_unknown] Show the field ONLY if: [post_spasms] = '1'	Did they have the seizures of an unknown onset? (post-spasms)	radio

1	Yes
2	No
9	Unknown

252	[p_unknown_typ] Show the field ONLY if: [p_unknown] = '1'	If yes, check all that apply:	checkbox

1	p_unknown_typ___1	Motor, tonic-clonic
2	p_unknown_typ___2	Motor, epileptic spasms
3	p_unknown_typ___3	Nonmotor, behavioral arrest
4	p_unknown_typ___4	Unclassified

253	[frew_sz]	Frequency of seizures at last follow-up?	radio
			1 Daily
			2 Weekly
			3 Monthly
			4 < Monthly
			9 Unknown
254	[spasms_complete]	Section Header: *Form Status* Complete?	dropdown
			0 Incomplete
			1 Unverified
			2 Complete