NINDS Multiple Sclerosis Common Data Elements (CDE)

Laboratory Tests and Non-Imaging Diagnostics Subgroup Recommendations

The following are the Non-Imaging Diagnostics recommendations of the MS CDE Laboratory Tests and Non-Imaging Diagnostics Subgroup. The CDE recommendations have been divided into separate categories and are presented in different tables as shown below:

- Table 1 ECG/EKG
- Table 2 Pulmonary Function Test
- Table 3 Scalp Electroencephalogram
- Table 4 Immune Cell Subsets
- Table 5 Electrophysiology
- Table 6 Nerve Conduction Studies

Table 1. EKG/ECG

CDE	General Comments	Purpose	Classification
ECG/EKG	If results are abnormal, use the following permissible values: Abnormal, Not Clinically Significant; Abnormal, Clinically Significant ; Other, specify	Safety	Supplemental

Table 2. Pulmonary Function Tests

CDE	General Comments	Purpose	Classification
Pulmonary Function Tests	Interpreted as predicted value based on age and size	Safety	Supplemental

NINDS Multiple Sclerosis Common Data Elements (CDE) Laboratory Tests and Non-Imaging Diagnostics Subgroup Recommendations

CDE	General Comments	Purpose	Classification
Activating procedures used	Permissible values: Sleep; Hyperventilation; Photic stimulation; Unknown; Other, specify	Diagnosis/ Safety	Supplemental
Behavioral states recorded	Permissible values: Awake; Asleep; Unresponsive state; Indeterminate; Other, specify	Diagnosis/ Safety	Supplemental
Date EEG recorded	mm/dd/yyyy	Diagnosis/ Safety	Supplemental
Duration, if prolonged	Permissible values: Less than 24 hours; Greater than or equal to 24 hours; N/A; Other, specify	Diagnosis/ Safety	Supplemental
Frequency of the posterior dominant rhythm during relaxed wakefulness	Round to the nearest 0.5 Hz	Diagnosis/ Safety	Supplemental
Location	Permissible values: Outpatient EEG Lab; Inpatient Monitoring Unit; Intensive Care Unit; Ambulatory; Other, specify	Diagnosis/ Safety	Supplemental
Number of seizures with EEG only		Diagnosis/ Safety	Supplemental
Number of seizures with Video and EEG		Diagnosis/ Safety	Supplemental
Number of seizures with video only		Diagnosis/ Safety	Supplemental
Original purpose of EEG	Permissible values: Research purposes - prospective; Research purposes - retrospective; Clinical purposes; Other, specify	Diagnosis/ Safety	Supplemental
Posterior dominant rhythm present?	Permissible values: Yes; No	Diagnosis/ Safety	Supplemental
Total number of seizures recorded		Diagnosis/ Safety	Supplemental
Туре	Permissible values: Routine; Prolonged	Diagnosis/ Safety	Supplemental
Video?	Permissible values: Yes; No; Unknown; Other, specify	Diagnosis/ Safety	Supplemental

Table 3. Scalp Electroencephalogram

NINDS Multiple Sclerosis Common Data Elements (CDE)

Laboratory Tests and Non-Imaging Diagnostics Subgroup Recommendations

CDE	General Comments	Purpose	Classification
CD2+	T cell % and number	Other/ Safety	Exploratory
CD2+DR	T cell % and number	Other/ Safety	Exploratory
CD3+/CD4+	T cell % and number	Other/ Safety	Exploratory
CD3+/CD8+	T cell % and number	Other/ Safety	Exploratory
CD3-/CD56+ (NK cells)		Other/ Safety	Exploratory
	Absolute number or proportional	Outcome/	
CD3-/CD56+ bright	NK cells	Safety	Exploratory
CD3+ (T cells)	T cell % and number	Other/ Safety	Exploratory
CD4/CD8 ratio		Other/ Safety	Exploratory
CD4+DR	T cell % and number	Other/ Safety	Exploratory
CD8+DR	T cell % and number	Other/ Safety	Exploratory
CD14+ (monocytes)		Other/ Safety	Exploratory
CD19+ (B cells)	B cell % and number	Other/ Safety	Exploratory
Other mononuclear subsets		Other/ Safety	Exploratory

Table 4. Immune Cell Subsets

Table 5. Electrophysiology

CDE	General Comments	Purpose	Classification
Motor EP: Arm, right and	Results should include: latency,	Diagnosis/	Supplemental
left cortex - APB	amp, CMCT, threshold	Outcome	Ouppiemental
Motor EP: Leg, right and	Results should include: latency,	Diagnosis/	Supplemental
left cortex - EDB	amp, CMCT, threshold	Outcome	Supplemental
Motor EP: Leg, right and	Results should include: latency,	Diagnosis/	Supplemental
left cortex - TA	amp, CMCT, threshold	Outcome	Supplemental
VEP checkerboard size 16	N75 latency; P100 latency;	Diagnosis/	Supplemental
VEP CHECKEIDOAIU SIZE 10	N145 latency	Outcome	Supplemental
VER shocksrboard size 22	N75 latency; P100 latency;	Diagnosis/	Supplemental
VEP checkerboard size 32	N145 latency	Outcome	Supplemental

Table 6. Nerve Conduction Studies

CDE	General Comments	Purpose	Classification
Fwave studies (right and left; M-latency, F-latency)	Permissible values: Peroneal (EDB); Peroneal (TA); Median	Diagnosis/ Outcome	Supplemental
Median Right and Left (amp, latency, CV, temp)	Segment: abductor pollicis brevis (wrist right and left)	Diagnosis/ Outcome	Supplemental
Peroneal (amp, latency, CV, temp)	Segment: extensor digitorum brevis (ankle right and left); TA (ankle right and left)	Diagnosis/ Outcome	Supplemental