Table e-1. List of tubes collected at biospecimen draws.

|  |  |  |
| --- | --- | --- |
| **Type** | **Count** | **Volume (ml)** |
| CPT (PBMC) | 3 | 8 |
| SST (serum) | 2 | 10 |
| EDTA tube (plasma) | 1 | 10 |
| EDTA tube (DNA preparation) | 1 | 10 |
| PAXgene (RNA) | 3 | 2.5 |
| Total | 10 | 40.5 |

**Table e-2. Summary of CIRCLES Patient Study File.**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Cohort** | |
| **Event** | **Form** | **Case** | **Control** |
| Enrollment | Inclusion/Exclusion | X | X |
| Demographic Information | X | X |
| Control Characteristics |  | X |
| Baseline | Case Baseline Encounter Summary | X |  |
| Control Baseline Encounter Summary |  | X |
| Baseline Environmental Exposures Summary | X | X |
| Baseline Activities of Daily Living | X | X |
| Baseline Autoimmune Diseases | X | X |
| Baseline Medications and Treatments | X | X |
| Baseline Surgical and Medical Procedures | X | X |
| Baseline Vaccinations | X | X |
| Current Most Likely Diagnosis | X |  |
| Follow-up | Case Follow-up Encounter Summary | X |  |
| Control Follow-up Encounter Summary |  | X |
| Follow-up Environmental Exposures Summary | X | X |
| Follow-up Activities of Daily Living | X | X |
| Current Most Likely Diagnosis | X |  |

**Table e-3. Neurological examination for CIRCLES.**

**Prospective Forms**

Documentation from clinical record, ROS, vitals & interval history

Make sure clinical records for visits includes:

ROS – List std. general/other vomiting hiccups (yes/no)

Std vital signs

Interval symptoms – vision, motor, spinal cord, brainstem, cognition

**Condensed Neurological Examination**

Standard Neurological Examination specialized below

With special attention to Visual Acuity

25 ft walk: Record ambulation time

Kurtzke scale

**Details of Neurological Examination**

All CNS (I-XII): N Abn NT

Visual Acuity: Snellen Chart Visualized – OS & OD

Worse than 20/400

20/400 (6/120)

20/200 (6/60)

20/100 (6/30)

20/70 (6/21)

20/50 (6/15)

20/40 (6/12)

20/30 (6/9)

20/25 (6/7.5)

20/20 (6/6)

20/15 (6/4.5)

Not documented

If not visualized – CF or HM or LP only – Blind (NLP)

Motor – strength all 4 exts. / by std. scale 0-5/exts.

Coordination – cerebellar ataxia on either or both sides

DTR absent to clonus 0-4 std. scale – upper & lower ext. – all sites

Other reflexes required – Hoffman & Babinski

Sensory – all extremities mobility, pinprick, superficial touch, temp (document sensory levels)

Vibration (level of impairment)

Proprioception (level of impairment) – Each level (upper extremity) Finger, Wrist, Elbow

(lower extremity) Toe, Ankle, Knee

Bowel/Bladder function – Normal, Mild, Severe Include: Symptom/Catheter

**Neurological Episode for CIRCLES**

Date of Onset: Date

1st episode: Y/N

Recovery: Complete/Incomplete/No Recovery

Duration in days: Duration (number of days)/ Ongoing/Unknown

Dx of NMOSD: New/Established/undetermined/If No-Specify

TM: Extensive/Non-Extensive

ON: OD

OS

Both

Chiasmal

Brain Syndromes: Brainstem Cerebral Hemisphere

**Episode Symptoms: Present: Y/N New/Worsening/No Change**

Anorexia

Mental deterioration

Narcolepsy

Psychiatric symptoms

Hypothalamic dysfunction

Visual acuity

Facial motor abnormal

Facial sensory abnormal

Hiccups (recalcitrant)

Hypoacusia

Nausea

Oculomotor impairment

Speech/swallowing impairment

Vertigo

Vomiting (persistent)

Bladder/bowel dysfunction

Lhermitte’s sign

Lower extremity dysfunction

Sensory symptoms (e.g. pain, paresthesia)

Sexual dysfunction

Upper extremity dysfunction

Walking difficulties

Fatigue/weakness

Spasms

Other