## Technical Information

1. Imaging study date and time // (24 hour clock) yyyy m m dd hh m m
2. Imaging modality

[ ]  X-ray: Cervical x-rays

[ ]  CT: cervical

[ ]  CT: head

[ ]  MRI: brain

[ ]  MRI: cervical

1. Imaging scanner strength

[ ]  1.5T [ ]  3.0T [ ]  4.0T [ ]  7.0T [ ]  Other: specify……………………………….

1. Imaging scanner manufacturer name

[ ] Agfa

[ ] Hitachi

[ ] Philips

[ ] Carestream

[ ] Hologic

[ ] Siemens

[ ] Konica Minolta

[ ] GE

[ ] Other, specify…………….

[ ] Toshiba

1. Imaging scanner model name: ……………………………………………………….
2. Imaging scanner software version number:
3. Head coil used:………………………………………….
4. Imaging sequence (choose all that apply):

[ ] T1

[ ] T2

[ ] GRE

[ ] FLAIR

[ ] DWI

[ ] DTI (including DSI DKI etc)

[ ] PWI

[ ] SWI

 [ ] MRS

 [ ] Other, specify

**[ ]** fMRI

## Findings

1. Brain imaging result

[ ] Normal [ ] Abnormal (related to trauma) [ ] Abnormal (not related to trauma) [ ] Not assessed [ ] Unknown

If answered #8 “Normal,” “Not assessed,” or “Unknown,” skip remaining questions

1. Skull fracture

[ ] Present [ ] Absent

1. Epidural hematoma

[ ] Present [ ] Absent

1. Acute subdural hematoma

[ ] Present [ ] Absent

1. Subdural hematoma - mixed density or CSF-like collection

**[ ]** Present **[ ]** Absent

1. Subarachnoid hemorrhage

**[ ]** Present **[ ]** Indeterminate **[ ]** Absent

For additional related supplemental elements, please see list at end of form.

1. Midline shift supratentorial

**[ ]** Present **[ ]** Absent

1. Cisternal compression

**[ ]** Present **[ ]** Absent

For additional related supplemental elements, please see list at end of form

1. Contusion

**[ ]** Present **[ ]** Absent

For additional related supplemental elements, please see list at end of form

1. Intraventricular hemorrhage

**[ ]** Present **[ ]** Absent

1. Diffuse axonal injury

**[ ]** Present **[ ]** Indeterminate **[ ]** Absent

For additional related supplemental elements, please see list at end of form

1. Brain Edema

[ ]  Present

[ ]  Absent

For additional related supplemental elements, please see list at end of form

1. Brain swelling extent

 **[ ]** Hemispheric

 **[ ]** Bihemispheric

1. Ischemia or infarction or hypoxic-ischemic injury

**[ ]** Present

**[ ]** Absent

For additional related supplemental elements, please see list at end of form

1. Brain atrophy or encephalomalacia

**[ ]** Present **[ ]** Likely **[ ]** Indeterminate **[ ]** Absent

For additional related supplemental elements, please see list at end of form

1. Cavum Septum Pellicidum (fluid-filled space between the leaflets of the septum pellucidum

**[ ]** Present **[ ]** Absent

1. White Matter Hyperintensities (using T2/FLAIR sequences)

**[ ]** Present **[ ]** Absent

Location

**[ ]** Corpus callosum: Genu

**[ ]** Corpus Callosum: Body

**[ ]** Corpus Callosum: Splenium

**[ ]** Subcortial White Matter: Frontal **[ ]** R **[ ]** L

**[ ]** Subcortical White Matter: Temporal **[ ]** R **[ ]**  L

**[ ]** Subcortical White Matter: Parietal **[ ]** R **[ ]**  L

**[ ]** Subcortical White Matter: Parietal **[ ]** R **[ ]**  L

**[ ]** Subcortical White Matter: Occipital **[ ]**  R **[ ]**  L

**[ ]** Internal Capsule: **[ ]** R **[ ]** L

**[ ]** Brainstem: Dorsolateral rostral **[ ]** R **[ ]** L

**[ ]** Brainstem: Other **[ ]** R **[ ]**  L

**[ ]** Midbrain

**[ ]** Pons

**[ ]** Medulla

**[ ]** Cerebellar Peduncle **[ ]** R **[ ]** L

Number (of discrete WMHs; throughout the brain)

**[ ]** None

**[ ]** 1-2

**[ ]** 3-5

**[ ]** 6-10

**[ ]** 11-20

**[ ]** 20+

 Greater than expected for age (1 per decade is the clinical convention)

 **[ ]** Yes

 **[ ]** No

1. Prominent perivascular spaces (using T2/FLAIR sequences

**[ ]** Present **[ ]** Indeterminate **[ ]** Absent

 Location

 **[ ]** Thalamus/Basal Ganglia **[ ]**  R **[ ]**  L

 **[ ]** Supratentorial **[ ]**  R **[ ]**  L

 Characteristics

 **[ ]** Symmetric

 **[ ]** Asymmretric

1. Ventriculomegaly

**[ ]** Present **[ ]** Indeterminate **[ ]** Absent

 Characteristics

 **[ ]** Ex vacuo dilation

 **[ ]** Concerning for obstructive pattern hydrocephalus

 **[ ]** Concerning for non-obstructive pattern hydrocephalus (venticles globally enlarged)

 **[ ]** Asymmetric

## Additional Supplemental Elements:

1. Skull fracture anatomic site (Choose all that apply)

Frontal [ ] R [ ]  L

Parietal [ ] R [ ]  L

Temporal [ ] R [ ]  L

Occipital [ ] R [ ]  L

Skull base [ ] R [ ]  L

Anterior fossa [ ]

Middle fossa [ ]

Posterior fossa [ ]

1. Skull fracture morphology findings type (Choose all that apply)

[ ]  Depressed (>1 cm or full thickness of skull)

[ ]  Ping pong fracture –

(Smooth depression typically seen in infants and toddlers, without a complete bony cortical disruption)

[ ]  Diastatic (Separated more than 3 mm, or separation of a suture)

[ ]  Compound (Communication with the skin, mastoid air cells, or paranasal sinuses)

[ ]  Probable fracture –

(One in which fracture itself cannot be seen definitively, but is suspected to be present based on other findings such as adjacent subgaleal and extra-axial hemorrhage, intracranial air, or other findings)

[ ]  Pneumocephalus (Pneumocephalus – Present)

[ ]  Other craniofacial fractures –

[ ]  Linear (Includes simple and branched)

[ ]  Comminuted (Involving at least one separate non-contiguous bone segment)

1. Subarachnoid hemorrhage anatomic site (Choose all that apply)

Frontal [ ] R [ ]  L

Parietal [ ] R [ ]  L

Temporal [ ] R [ ]  L

Occipital [ ] R [ ]  L

Suprasellar cisterns [ ] R [ ]  L

Interhemispheric cisterns [ ]  Anterior (frontoparietal)

[ ]  Posterior (occipital)

Posterior fossa cisterns [ ] R [ ]  L

Perimesencephalic cisterns [ ]

1. Subarachnoid hemorrhage extent type (Fisher classification)

[ ]  Diffuse or vertical layers < 1 mm (Fisher 2)

[ ]  Focal cloth and/or vertical layer ≥ 1 mm (Fisher 3)

[ ]  Intraventricular cloth with diffuse or no SAH (Fisher 4)

1. Cisternal compression type

**[ ]** Visible but compressed - Asymmetric

**[ ]** Visible but compressed - Symmetric

**[ ]** Mixed (some cisterns open, others compressed/obliterated)

[ ] Obliterated (all cisterns)

1. Contusion findings (choose all that apply)

**[ ]** Subcortical **[ ]** Cortical **[ ]** Deep structures

1. Diffuse axonal injury and traumatic axonal injury anatomic site (Choose all that apply)

**[ ]** Frontal [ ] R [ ]  L

**[ ]** Parietal [ ] R [ ]  L

**[ ]** Temporal [ ] R [ ]  L

**[ ]** Occipital [ ] R [ ]  L

**[ ]** Thalamus/Basal Ganglia [ ] R [ ]  L

**[ ]** Midbrain [ ] R [ ]  L

**[ ]** Pons [ ] R [ ]  L

**[ ]** Medulla [ ] R [ ]  L

**[ ]** Cerebellum [ ] R [ ]  L

**[ ]** Corpus Callosum: Genu [ ] R [ ]  L

**[ ]** Corpus Callosum: Body [ ] R [ ]  L

**[ ]** Corpus Callosum: Splenium [ ] R [ ]  L

**[ ]** Subcortical White matter: Frontal [ ] R [ ]  L

**[ ]** Subcortical White matter: Parietal [ ] R [ ]  L

**[ ]** Subcortical White matter: Temporal [ ] R [ ]  L

**[ ]** Subcortical White matter: Occipital [ ] R [ ]  L

**[ ]** Internal Capsule: Anterior limb [ ] R [ ]  L

**[ ]** Internal Capsule: Posterior limb [ ] R [ ]  L

**[ ]** Brainstem: Dorsolateral rostral [ ] R [ ]  L

**[ ]** Brainstem: Other [ ] R [ ]  L

**[ ]** Cerebellar Peduncles [ ] R [ ]  L

1. Diffuse axonal injury and traumatic axonal injury: number of lesions: [ ]
2. Edema anatomic site (Choose all that apply)

Frontal [ ] R [ ]  L

Parietal [ ] R [ ]  L

Temporal [ ] R [ ]  L

Occipital [ ] R [ ]  L

Cerebellum [ ] R [ ]  L

Brainstem [ ]

Hemispheric **[ ]**

Bihemispheric **[ ]**

Global **[ ]**

1. Ischemia or infarction or hypoxic-ischemic injury anatomic site (Choose all that apply)

Frontal [ ] R [ ]  L

Parietal [ ] R [ ]  L

Temporal [ ] R [ ]  L

Occipital [ ] R [ ]  L

Deep grey matter [ ] R [ ]  L

Cerebellum [ ] R [ ]  L

Brainstem [ ]

1. Ischemia or infarction or hypoxic-ischemic injury, acute or subacute findings type (Choose all that apply)

**[ ]** Isodense (for CT)

**[ ]** Hyperdense (for CT)

 **[ ]** Hypodense (for CT)

**[ ]** Hypointense (for MRI)

**[ ]** Isointense (for MRI)

**[ ]** Bright (for MRI)

**[ ]** Hyperintense (for MRI)

**[ ]** Normal (for MRI)

**[ ]** Mixed (for CT or MRI)

1. Brain atrophy or encephalomalacia anatomic site (Choose all that apply)

Frontal [ ] R [ ]  L

Parietal [ ] R [ ]  L

Temporal [ ] R [ ]  L

Occipital [ ] R [ ]  L

Deep grey matter [ ] R [ ]  L

Cerebellum [ ] R [ ]  L

Hippocampus [ ] R [ ]  L

Supratentorial white matter (corpus callosum, periventricular white matter) [ ] R [ ]  L

1. Brain volumetric analysis measurement:

cm3