TRAUMATIC BRAIN INJURY MODEL SYSTEMS
INTRACRANIAL CT DIAGNOSIS DATA COLLECTION FORM
(4/1/2007)

PATIENT NAME: _____ SYSTEM # /MEDICAL RECORD #: _____

PHYSICIAN COMPLETING FORM _____ DATE FORM COMPLETED: _____ DATE OF INJURY: _____

DEFINITION: CT diagnoses based on a combination of reports taken from radiographic CT results within **FIRST SEVEN DAYS** of injury

CT STATUS

____ (1) CT done - COMPLETE THE REST OF THE FORM
____ (8) CT not done - DO NOT COMPLETE THE REST OF THE FORM
____ (9) Unknown (CT scans / reports done, but unavailable) - DO NOT COMPLETE THE REST OF THE FORM

A. EXTENT OF INTRACRANIAL COMPRESSION:

Guidelines:

- If Shift is > 5 mm, code (4). Include: "Herniation"
- If shift is ≤ 5 mm, then look for cistern compression.
- If cisterns **ARE** compressed tight or filled with subarachnoid hemorrhage, code (3)
- If there is no cisternal compression, look for degree of shift.
- If shift is 1-5 mm, or if shift is "mild" or "minimal" code (2)
- If intracranial compression is < 1 mm or ventricles compressed without shift, or if shift is "trace" or "slight" code (1)
- If extent of shift or cisternal compression is not specified, code (5)

Check **ONLY ONE** of the following codes:

____ (1) No cistern compression or midline shift.
____ (2) Cisterns are present but midline shift is noted of 1-5 mm.
____ (3) Cisterns compressed or absent with midline shift of 0-5 mm
____ (4) Midline shift of greater than 5 mm.
____ (5) Extent of compression not specified.

B. INTRACRANIAL HEMORRHAGE AND/OR CONTUSIONS

Guidelines:

- All "probable" diagnoses code as present, all "possible" or "may be present" diagnoses should prompt search in previous and subsequent scans for confirmation. If no confirmation, do not code as present.
- Blood in ambient, basal, interpeduncular cisterns or cisterna magna is subarachnoid hemorrhage.
- Blood along falx or tentorium, whether reported as subdural or subarachnoid hemorrhage should be coded as subarachnoid hemorrhage.
- Hemorrhagic and non-hemorrhagic (bland) contusions should be included.
- A lesion read as an "infarct" should also be coded as a contusion
- For readings such as "temporal-parietal", "parietal-occipital" or "frontal-parietal" contusions, both locations should be specified.
- Hemorrhage noted along ventriculostomy tract should not be coded as present

(1) Intracranial hemorrhage and/or contusions, extra-axial collections **(Section B)**

____ (Yes)
____ (No) **If no, skip to Section C**

Specify all that apply:

____ (2) Punctate / petechial hemorrhages, with or without cerebral swelling
____ (3) Subarachnoid hemorrhage (SAH)
____ (4) Intraventricular hemorrhage (IVH)

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Focal cortical parenchymal contusions or hemorrhage in cerebral cortex:

Specify all that apply:

Left	Right	Cortical contusions present, laterality not specified
(5a1) ____	(5a2) ____	(5a3) ____ Frontal
(5b1) ____	(5b2) ____	(5b3) ____ Temporal
(5c1) ____	(5c2) ____	(5c3) ____ Parietal
(5d1) ____	(5d2) ____	(5d3) ____ Occipital
(5e1) ____	(5e2) ____	(5e3) ____ Location not specified

Focal noncortical parenchymal contusions (non-hemorrhagic or hemorrhagic) or hemorrhage:

Guidelines:

- Locations for non-cortical contusions include:

Basal ganglion (putamen, globus pallidus, caudate)	Internal and external capsules
Brainstem	Midbrain
Centrum semiovale	Pons
Cerebellum	Subcortical white matter
Corpus callosum	Thalamus

Left	Right	Noncortical contusions present, laterality not specified
(6a1) ____	(6a2) ____	(6a3) ____

Presence of any extra-axial collection:

Guidelines:

- Includes "hematomas", "hygromas", and "tentorial SDH"
- Hygromas should be classified in the "subdural" category.
- Tentorial subdural, subdural collection along falx should be coded SAH

Specify all that apply:

Left	Right	Extra-axial collection present, laterality not specified
(7a1) ____	(7a2) ____	(7a3) ____ Epidural
(7b1) ____	(7b2) ____	(7b3) ____ Subdural
(7c1) ____	(7c2) ____	(7c3) ____ Location not specified

C. INTRAPARENCHYMAL FRAGMENTS: Code whether intraparenchymal fragments are present

Guidelines:

- Surgical clips or coils by themselves, code (1)
- If fragments are not mentioned, assume that they are not present and code (1).
- "Minimally displaced" or "non-displaced" skull fractures, code (1)
- Metallic fragments that are **extracranial** (scalp) will be noted in most radiology reports but would be coded (1) unless also intraparenchymal.
- Code **only** intraparenchymal fragments present code (2)
- Fractures displaced $\geq$ 2 mm, code (2)

___ (1) No fragment(s)
___ (2) Yes fragment(s)

INTRACRANIAL CT DIAGNOSIS CODES (V135)

4/1/2007

STATUS OF CT

1 CT Done
8 CT Not Done – DO NOT COMPLETE THE REST OF THE FORM
9 CT Unknown (CT scans / reports done, but not available)

A. EXTENT OF INTRACRANIAL COMPRESSION - use only one of the following codes:

1 No visible intracranial compression
2 Cisterns are present but midline shift is noted of 1-5 mm.
3 Cisterns compressed or absent with midline shift of 0-5 mm.
4 Midline shift of greater than 5 mm.
5 Extent not specified
0 Variable did not exist when data collected for this case

B. PATHOLOGY:

1. Presence of pathology:

1 No visible pathology
2 Yes, pathology exists
0 Variable did not exist when data

2. Punctate/petechial hemorrhages, with/without cerebral swelling: 1 No 2 Yes

3. Subarachnoid hemorrhage: 1 No 2 Yes

4. Intraventricular hemorrhage: 1 No 2 Yes

5. Focal cortical parenchymal contusions (non-hemorrhagic/hemorrhagic) or hemorrhage in cerebral cortex; indicate all by laterality and location:

a1. Left, Frontal: 1 No 2 Yes
a2. Right, Frontal: 1 No 2 Yes
a3. Laterality not specified, Frontal: 1 No 2 Yes
b1. Left, Temporal: 1 No 2 Yes
b2. Right, Temporal: 1 No 2 Yes
b3. Laterality not specified, Temporal: 1 No 2 Yes
c1. Left, Parietal: 1 No 2 Yes
c2. Right, Parietal: 1 No 2 Yes
c3. Laterality not specified, Parietal: 1 No 2 Yes
d1. Left, Occipital: 1 No 2 Yes
d2. Right, Occipital: 1 No 2 Yes
d3. Laterality not specified, Occipital: 1 No 2 Yes
e1. Left, Location not specified: 1 No 2 Yes
e2. Right, Location not specified: 1 No 2 Yes
e3. Laterality and Location not specified: 1 No 2 Yes

6. Focal noncortical parenchymal contusions (non-hemorrhagic/hemorrhagic) or hemorrhage; includes cerebellum, brainstem, pons, thalamus, basal ganglion and internal capsule: indicate laterality.

a. Left: 1 No 2 Yes
b. Right: 1 No 2 Yes
c. Laterality not specified: 1 No 2 Yes

7. Presence of any extra-axial collection

a1. Left, Epidural: 1 No 2 Yes
a2. Right, Epidural: 1 No 2 Yes
a3. Laterality not specified, Epidural: 1 No 2 Yes
b1. Left, Subdural: 1 No 2 Yes
b2. Right, Subdural: 1 No 2 Yes
b3. Laterality not specified, Subdural: 1 No 2 Yes
c1. Left, location not specified: 1 No 2 Yes
c2. Right, location not specified: 1 No 2 Yes
c3. Laterality and location not specified: 1 No 2 Yes

C. INTRAPARENCHYMAL FRAGMENTS:

1 No fragment(s)
2 Yes fragment(s)
0 Variable did not exist when data collected for this case