Vitals, GCS, Four Score, Second Insults

Patient Identification Information [_____]

Date (Vitals.DVDate) (dd-mmm-yyyy)

[_____]

This needs to be entered and saved for the record to save.

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(Vitals.DVTimepoint) DV Timepoint
- ☐ Day 1
- ☐ Day 2
- ☐ Day 3
- ☐ Day 4
- ☐ Day 5
- ☐ Day 6
- ☐ Day 7
- ☐ Day 10
- ☐ Day 14
- ☐ Day 21
- ☐ Day 28

Vitals

Highest Blood Pressure	(Vitals.DVSBP) Systolic / [___]	(Vitals.DVDBP) Diastolic [___]	(Vitals.DVSBPHighTime) Time [___]
Lowest Blood Pressure	(Vitals.DVSBPLow) Systolic / [___]	(Vitals.DVDBPLow) Diastolic [___]	(Vitals.DVSBPLowTime) [___]
(Vitals.) Highest Oxygen saturation (pulse oximetry)	(Vitals.DVSpO2) [___]	(Vitals.DailyVitalsID) %	(Vitals.DVSpO2HighTime) [___]
(Vitals.) Lowest Oxygen saturation (pulse oximetry)	(Vitals.DVSpO2Low) [___]	%	(Vitals.DVSpO2LowTime) [___]
Highest Heart Rate	(Vitals.DVHR) [___]	(Vitals.) beats per min	(Vitals.DVHRHighTime) [___]
Lowest Heart Rate	(Vitals.DVHRLow) [___]	(Vitals.) beats per min	(Vitals.DVHRLowTime) [___]

Temperature (Vitals.DVTempNotDone) ☐ Not done

(Vitals.DVTempLocation) Where was temperature measured?
- ☐ External-axillary
- ☐ External-skin
- ☐ Core- rectal
- ☐ Core-bladder
- ☐ Core- oesophageal
- ☐ Core- tympanic
- ☐ Core- nasopharynx

Lowest temperature:	(Vitals.DVTempLow) [___]	(Vitals.DVTempUnitLow) ○C ○F	(Vitals.DVTempLowTime) Time [___]
	(Vitals.DVTempLowC) [___]		
Highest temperature:	(Vitals.DvTemp) [___]	(Vitals.DVTempUnitHigh) ○C ○F	(Vitals.DVTempHighTime) Time [___]
	(Vitals.DVTempHighC) [___]		
Brain temperature at the time of highest body temp:	(Vitals.DVTempBrain) [___]	(Vitals.DVTempBrainUnit) ○C ○F	(Vitals.DVTempBrainNotDone) ☐ Not done
	(Vitals.DVTempBrainC) [___]		
Brain temperature at the time of lowest body temp	(Vitals.DVBrainTempFLow) [___]	(Vitals.DVBrainTempUnit) ○C ○F	(Vitals.DVBrainTempLowNotDone) Not Done ☐
	(Vitals.DVBrainTempCLow) [___]		

Blood Gas Analysis

Lowest PaO2	(Vitals.DVLowestPaO2NotDone) ☐ Not done	(Vitals.DVLowestPaO2kPa) [___]	(Vitals.DVLowestPaO2Unit) ○kPa ○mmHg
		(Vitals.DVLowestPaO2) [___]	
FiO2 at time of sampling:	(Vitals.DVFiO2AtLowPaO2NotDone) ☐ Not done	(Vitals.DVFiO2AtLowPaO2) [___]	%
Lowest PaO2/FiO2		(Vitals.DVLowestPaO2OverLowestFiO2) [___]	
Highest PaO2:	(Vitals.DVHighestPaO2NotDone) ☐ Not done	(Vitals.DVHighestPaO2kPa) [___]	(Vitals.DVHighestPaO2Unit) ○ kPa ○mmHg
		(Vitals.DVHighestPaO2) [___]	
FiO2 at time of sampling:	(Vitals.DVFiO2AtHighPaO2NotDone) ☐ Not done	(Vitals.DVFiO2AtHighPaO2) [___]	%
Highest PaO2/FiO2		(Vitals.DVHighestPaO2OverHighestFiO2) [___]	
Lowest oxygen saturation:	(Vitals.DVBloodOxySatLowNotDone) ☐ Not Done	(Vitals.DVBloodOxySatLow) [___]	%
Highest oxygen saturation:	(Vitals.DVBloodOxySatHighNotDone) ☐ Not Done	(Vitals.DVBloodOxySatHigh) [___]	%
Lowest PaCO2:	(Vitals.DVLowestPaCO2NotDone) ☐ Not done	(Vitals.DVLowestPaCO2kPa) [___]	(Vitals.DVLowestPaCO2Unit) ○ kPa ○mmHg
		(Vitals.DVLowestPaCO2) [___]	
Highest PaCO2:	(Vitals.DVHighestPaCO2NotDone) ☐	(Vitals.DVHighestPaCO2kPa) [___]	(Vitals.DVHighestPaCO2Unit) ○

Not done   kPa ○mmHg

(Vitals.DVHighestPaCO2) [____]

Lowest pH: (Vitals.DVLowestpHNotDone) ☐ Not   (Vitals.DVLowestpH) [____]
                  done
Highest pH: (Vitals.DVHighestpHNotDone) ☐ Not   (Vitals.DVHighestpH) [____]
                  done

(Vitals.DailyVitalsID) **GCS and Pupils**

Please score the best and worst GCS and Pupillary reactivity for this day, if the best is the same as worst record one entry under worst:

Worst GCS

(Vitals.DailyGCSTime) Time of worst GCS
[____]

(Vitals.DVAssmtConditionsWorst) Assessment conditions:
☐ No sedation or paralysis
☐ Paralyzed
☐ Sedated
☐ Temporary stop of sedation/paralysis
☐ Reversal of sedation/paralysis
☐ Active reversal (pharmacologic) of sedation/paralysis
☐ Other

(Vitals.DVChangeInOneDayWorst) Change over past 24 hours:
☐ No change
☐ Improving
☐ Episode of deterioration
☐ Sustained deterioration
☐ Fluctuating

(Vitals.DVChangeCauseWorst) Cause of change:
☐ Mainly intracranial
☐ Mainly extracranial
☐ Both to an equal extent
☐ Unknown

Eye opening: (Vitals.DVGCSWorstEyes) ☐ 1-None
              ☐ 2-To pain
              ☐ 3-To speech
              ☐ 4-Spontaneously
              ☐ Untestable (swollen)
              ☐ Untestable (Other)
              ☐ Unknown
Motor: (Vitals.DVGCSWorstMotor) ☐ 1-None
              ☐ 2-Abnormal extension
              ☐ 3-Abnormal flexion
              ☐ 4-Normal flexion/withdrawal
              ☐ 5-Localizes to pain
              ☐ 6-Obeys command
              ☐ Untestable (Deep sedation/paralyzed)
              ☐ Untestable (Other)
              ☐ Unknown
Verbal: (Vitals.DVGCSWorstVerbal) ☐ 1-None
              ☐ 2- Incomprehensible sound
              ☐ 3-Inappropriate words
              ☐ 4-Confused
              ☐ 5-Oriented
              ☐ Untestable (Tracheotomy/endotracheal tube)
              ☐ Untestable (Other)
              ☐ Unknown

Score   (Vitals.DVGCSWorstScore) [____]

(Vitals.DailyVitalsID) **Worst Pupils**

Left eye

(Vitals.DVWorstPupilReactivityLghtLftEyeResult) (Vitals.DVWorstPupilLftEyeMeasr) (Vitals.DVWorstPupilLftEyeMeasrUnkUnt)
Reactivity: Size: ○ Untestable
○ - (Negative)   [____]   ○ Unknown
○ + (Sluggish)
○ + (Brisk)

Right eye

(Vitals.DVWorstPupilReactivityLghtRghtEyeResult)
Reactivity:
○ - (Negative)
○ + (Sluggish)
○ + (Brisk)

(Vitals.) **Best GCS**

Worst GCS same as best GCS? (Vitals.DVGCSBest) ○ No ○ Yes

(Vitals.DVGCSBestTime) Time of best GCS
[____]

(Vitals.DVAssmtConditions) Assessment Conditions:
☐ No sedation or paralysis
☐ Paralyzed
☐ Sedated
☐ Temporary stop of sedation/paralysis
☐ Reversal of sedation/paralysis
☐ Active reversal (pharmacologic) of sedation/paralysis
☐ Other
(Vitals.DVChangeInOneDay) Change over past 24 hours:
☐ No change
☐ Improving
☐ Episode of deterioration
☐ Sustained deterioration
☐ Fluctuating
(Vitals.DVGCSBestChangeCause) Cause of change:
☐ Mainly intracranial
☐ Mainly extracranial
☐ Both to an equal extent
☐ Unknown

(Vitals.DVGCSEyes) Eye opening:
☐ 1-None
☐ 2-To pain
☐ 3-To speech
☐ 4-Spontaneously
☐ Untestable (swollen)
☐ Untestable (Other)
☐ Unknown
(Vitals.DVGCSMotor) Motor:
☐ 1-None
☐ 2-Abnormal extension
☐ 3-Abnormal flexion
☐ 4-Normal flexion/withdrawal
☐ 5-Localizes to pain
☐ 6-Obeys command
☐ Untestable (Deep sedation/paralyzed)
☐ Untestable (Other)
☐ Unknown
(Vitals.DVGCSVerbal) Verbal:
☐ 1-None
☐ 2- Incomprehensible sound
☐ 3-Inappropriate words
☐ 4-Confused
☐ 5-Oriented
☐ Untestable (Tracheotomy/endotracheal tube)
☐ Untestable (Other)
☐ Unknown
(Vitals.DVGCSScore) Best GCS Score
[____]

(Vitals.DailyVitalsID) **Best Pupils**

Left eye:

(Vitals.DVPupilReactivityLghtLftEyeReslt) (Vitals.DVPupilLftEyeMeasr) (Vitals.DVPupilLftEyeMeasrUnkUnt)
Reactivity: Size: ○ Untestable
○ - (Negative)   [____]   ○ Unknown
○ + (Sluggish)
○ + (Brisk)

Right eye:

(Vitals.DVPupilReactivityLghtRtEyeReslt) (Vitals.DVPupilRtEyeMeasr)
Reactivity: Size:
○ - (Negative)   [____]
○ + (Sluggish)
○ + (Brisk)

Four Score

Eye response:　(Vitals.DVFourScoreEye) ☐ Eyelids open or opened tracking or blinking to command
☐ Eyelids open but not tracking
☐ Eyelids closed but opens to loud voice
☐ Eyelids closed but opens to pain
☐ Eyelids remain closed with pain
☐ Unknown

Motor response　(Vitals.DVFourScoreMotor) ☐ Thumbs up, fist, or peace sign to command
☐ Localizing to pain
☐ Flexion response to pain
☐ Extensor posturing
☐ No response to pain or generalized myoclonus status epilepticus
☐ Unknown

Brainstem reflexes:　(Vitals.DVFourScoreBrainstem) ☐ Pupil and corneal reflexes present
☐ One pupil wide and fixed
☐ Pupil or corneal reflexes absent
☐ Pupil and corneal reflexes absent
☐ Absent pupil, corneal, and cough reflex
☐ Unknown

Respiration:　(Vitals.DVFourScoreRespiration) ☐ Not intubated, regular breathing pattern
☐ Not intubated, Cheyne- Stokes breathing pattern
☐ Not intubated, irregular breathing pattern
☐ Breathes above ventilator rate
☐ Breathes at ventilator rate or apnea
☐ Unknown

FOUR Score Sum:　(Vitals.DVFourScoreTotal) _____

Intracranial Second Insults

Seizures　(Vitals.HosComplEventSeizures) ☐ No
☐ Silent seizure activity (only electrical, no clinical manifestation)
☐ Single episode, short duration
☐ Partial/Focal
☐ Generalized
☐ Status epilepticus
☐ Unknown

Systemic Second Insults

Hypoxic Episode:　(Vitals.HosComplEventHypoxia) ☐ No
☐ Single episode, short duration
☐ Multiple episodes or prolonged duration
☐ Unknown

Hypotensive Episode:　(Vitals.HosComplEventHypotension) ☐ No
☐ Single episode, short duration
☐ Multiple episodes or prolonged duration
☐ Unknown

Inadvertent hypocapnia:　(Vitals.HosComplEventHypocapnia) ☐ No
☐ Single episode, short duration
☐ Multiple episodes or prolonged duration
☐ Unknown

Neuroworsening*

Neuroworsening?　(Vitals.HospSecondInsultsNeuroWorse) ☐ No
☐ Yes
☐ Unknown
(Vitals.HospSecondInsultsNeuroWorseYes) Please describe:
☐ Decrease in motor score >= 2 points
☐ Development of pupillary abnormalities
☐ Other neurological and/or CT deterioration
(Vitals.HospSecondInsultsNeuroWorseAction) Action taken:
☐ None
☐ Unscheduled CT scan
☐ Change in medical therapy
☐ Surgical intervention

* Neuroworsening is defined as:
1. A spontaneous decrease in the Glasgow Coma Scale motor score ≥ 2 points (compared with the previous examination)
2. A new loss of pupillary reactivity, development of pupillary asymmetry ≥ 2 mm.
3. Deterioration in neurological or CT status sufficient to warrant immediate medical or surgical intervention