Daily 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.

To print blank form
<u>Click here</u>

Location of patient (Vitals.PatientLocation)
☐ Ward
☐ ICU

Vitals (Vitals.DVVitalsNotDone) ☐ Not done

Highest Blood Pressure	(Vitals.DVSBP) Systolic / [ ]	(Vitals.DVDBP) Diastolic (mm Hg) [ ]	(Vitals.DVSBPHighTime) Time [ ]
Lowest Blood Pressure	(Vitals.DVSBPLow) Systolic / [ ]	(Vitals.DVDBPLow) Diastolic (mm Hg) [ ]	(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

Highest temperature:	(Vitals.DvTemp) [ ] (Vitals.DVTempHighC) [ ]	(Vitals.DVTempUnitHigh) ○C ○F	(Vitals.DVTempHighTime) Time [ ]
Lowest temperature:	(Vitals.DVTempLow) [ ] (Vitals.DVTempLowC) [ ]	(Vitals.DVTempUnitLow) ○C ○F	(Vitals.DVTempLowTime) Time [ ]

Brain temperature at the time of highest body temp:	(Vitals.DVTempBrain) [ ] (Vitals.DVTempBrainC) [ ]	(Vitals.DVTempBrainUnit) ○C ○ F	(Vitals.DVTempBrainNotDone) ☐ Not done
Brain temperature at the time of lowest body temp	(Vitals.DVBrainTempFLow) [ ] (Vitals.DVBrainTempCLow) [ ]	(Vitals.DVBrainTempUnit) ○C ○ F	(Vitals.DVBrainTempLowNotDone) ☐ Not done

---

Blood Gas Analysis (Vitals.DVBloodGasNotDone) ☐ Not done

Lowest PaO2	(Vitals.DVLowestPaO2NotDone) ☐ Not done	(Vitals.DVLowestPaO2kPa) [ ] (Vitals.DVLowestPaO2) [ ]	(Vitals.DVLowestPaO2Unit) ○kPa ○mmHg
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.DVHighestPaO2) [ ]	(Vitals.DVHighestPaO2Unit) ○ kPa ○mmHg
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.DVLowestPaCO2) [ ]	(Vitals.DVLowestPaCO2Unit) ○ kPa ○mmHg
Highest PaCO2:	(Vitals.DVHighestPaCO2NotDone) ☐ Not done	(Vitals.DVHighestPaCO2kPa) [ ] (Vitals.DVHighestPaCO2) [ ]	(Vitals.DVHighestPaCO2Unit) ○ kPa ○mmHg
Lowest pH:	(Vitals.DVLowestpHNotDone) ☐ Not done	(Vitals.DVLowestpH) [ ]	
Highest pH:	(Vitals.DVHighestpHNotDone) ☐ Not		

done	(Vitals.DVHighestpH) [ ]	

(Vitals.VitalsID) **GCS and Pupils** (Vitals.DVGCSPupilsNotDone) ☐ Not done

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**

(Vitals.DVWorstPupilSymmetry) Pupil symmetry
◯ Equal
◯ Unequal R>L
◯ Unequal L>R

Left eye

(Vitals.DVWorstPupilReactivityLghtLftEyeResult)
Reactivity:
◯ - (Negative)
◯ + (Sluggish)
◯ + (Brisk)

(Vitals.DVWorstPupilLftEyeMeasr)
Size:
[ ]

(Vitals.DVWorstPupilLftEyeMeasrUnkUnt)
◯ Untestable
◯ Unknown

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**

(Vitals.DVBestPupilSymmetry) Pupil symmetry
◯ Equal
◯ Unequal R>L
◯ Unequal L>R

Left eye:

Right eye:

(Vitals.DVPupilReactivityLghtLftEyeReslt)   (Vitals.DVPupilLftEyeMeasr)   (Vitals.DVPupilLftEyeMeasrUnkUnt)   (Vitals.DVPupilReactivityLghtRtEyeReslt)   (Vitals.DVPupilRtEyeMeasr)

Reactivity: Size: ○ Untestable   Reactivity: Size:
○ - (Negative)   ☐   ○ Unknown   ○ - (Negative)   ☐
○ + (Sluggish)   ○ + (Sluggish)
○ + (Brisk)   ○ + (Brisk)

Four Score (Vitals.DVFourScoreNotDone) ☐ Not done

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.DVFourScoreBraintstem) ☐ 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
Intracranial Second Insults   (Vitals.DVIntracranialSecondInsultsNotDone) ☐ Not done

(Vitals.HosComplEventSeizures) Seizures
☐ 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 $PaO_2 < 8$ kPa (60 mmHg)/$SaO_2 < 90\%$
☐ Single episode, short duration
☐ Multiple episodes or prolonged duration
☐ Unknown

Hypotensive Episode: (Vitals.HosComplEventHypotension) ☐ No   Systolic BP < 90 mmHg
☐ Single episode, short duration
☐ Multiple episodes or prolonged duration
☐ Unknown

Inadvertent hypocapnia: (Vitals.HosComplEventHypocapnia) ☐ No $PaCO_2 \leq 3.3$ kPa (25 mmHg)
☐ 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