

April - June 2019

PHEA Audit



Pre-Hospital Emergency Anaesthesia

Highest risk procedure performed
by MEDSERVE Wales responders

Every case audited against the
Standard Operating Procedure

Key Performance Indicators are
used to monitor compliance with
SOP and drive improvement

Key Performance Indicators

Discuss with 'top cover' if advised by SOP prior to PHEA [80%]

On scene time <30mins for the non-trapped (medically, environmentally or physically) patient [80%]

Time from starting PHEA (time of giving induction agent) to leaving pre-hospital scene in <15mins [80%]

999 call to PHEA time <45mins in trauma patient [50%]

Intubated on first attempt - >90% and three or less attempts [100%]

Bougie or stylet used in all cases [100%]

PHEA checklist used in all cases [100%]

Hypotension of SBP 90mmHg or desaturation of SpO2 <92% with good trace within 5mins of induction ("Transient Complications") in traumatic/non traumatic brain injury [<10%]

PHEA audit form completed in all cases including indication and observations [100%]

Full case review of all cardiac arrests post RSI [100%]

Cases

Date	Indication	Staff	Location	Receiving Hospital
24/3/19	TBI	RD – option 4	Cwmbran	UHW
10/4/19	RTC hit by car	GR / RM	Newport Road	UHW
15/4/19	10 YOF strangulation	MC / GR / RM	St Mellons	UHW
12/5/19	RTC hit by car	IB / CM / WH / TA	Caerphilly	UHW

Discussed with Top Cover if advised by SOP (80%)

- 0 cases met criteria for call
 - Non consultant grade lead

On scene time <30 mins (80%)

- 31 mins
- 15 mins
- 30 mins $2/4=50\%$
- 40 mins

Time from start PHEA to leave scene <15mins (80%)

- 15 mins
- 5 mins
- 14 mins
- 11 mins

$$4/4 = 100\%$$

999 call to PHEA time <45mins in trauma patient [50%]

- 4 cases trauma
 - 38 mins
 - 29 mins
 - 34 mins
 - 57 mins
- 3/4 – 75%

Intubated on first attempt - >90% and three or less attempts
[100%]

- Intubated on first attempt 4/4
- Intubated on second attempt 4/4

Bougie or stylet used in all cases [100%]

- Bougie used 2/4
- (not recorded other 2)

PHEA checklist used in all cases [100%]

- Full checklist used 3/4
- Not specified 1/4

- Checklist used 4/4

Hypotension of SBP 90mmHg or desaturation of SpO₂ <92% with good trace within 5mins of induction (“Transient Complications”) in traumatic/non traumatic brain injury [<10%]

- 1 case SpO₂ 70% prior to PHEA, improved post intubation
- Zero hypotension

PHEA audit form completed in all cases including indication and observations [100%]

- Awaiting 2 forms
- 1 option 4 intubation



Full case review of all cardiac arrests post RSI [100%]

- No cardiac arrests post PHEA



Summary

- Some times marginally over KPI's
- Low numbers make large impact on percentages
- Option 4 case – being invx