

December 2018 – March 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
27/11/18	TBI	GR / ST	Barry	UHW
29/11/18	ICH	RD / ST	Mountain Ash	UHW
30/11/18	OOH CA	JW / CS / CW	Treharris	UHW
9/12/18	13YO Hanging	GR / MC	Llanishen	UHW
20/12/18	OOH CA	GR	Roath	UHW
30/12/18	TBI	MC / RM	Caerphilly	UHW
25/1/19	OOH CA	JW / TA / FT	Canton	UHW
24/2/19	Under minibus	GR / RM	Cardiff	UHW
22/3/19	Motorcycle RTC	MC/OL/RM	Newport	UHW
24/3/19	TBI	RD	Cwmbran	UHW

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

- 2 case met criteria for call
 - Non consultant grade lead
- 2 calls made (Creed – Roberts)
- 100%

On scene time <30 mins (80%)

- 53 mins
- 25 mins
- 30 mins
- 22 mins
- 29 mins
- 35 mins
- 40 mins

$$4/7 = 57\%$$

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

- 18 mins
- 15 mins
- 16 mins
- 7 mins
- 9 mins
- 15 mins
- 15 mins

$$5/7 = 71\%$$

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

- 3 cases trauma
 - 52 mins
 - 31 mins
 - 44 mins
- 2/3 – 66%

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

- Intubated on first attempt 5/7
- Intubated on second attempt 7/7

Bougie or stylet used in all cases [100%]

- Bougie used 7/7

PHEA checklist used in all cases [100%]

- Full checklist used 5/7
- Not specified 2/7

- Checklist used 7/7

• 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 85% prior to PHEA, improved to 88 post intubation
- Zero hypotension

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

- Awaiting 2 forms
- 1 case crash 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 cases – to discuss