

# A massive haemorrhage training video as a teaching resource. What can we learn?

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Octapharma contributed to the costs of producing this educational video, but did not influence its content



# Introducing UHCW



- One of the busiest teaching hospitals in the country
- 2 main hospital sites (UHCW/RSX)
- Located in the south of the region
- Very high blood user
- Trauma centre
- Circa 7000 staff
- 1000 + Drs of all grades
- 2400 Registered Nurses / Midwives

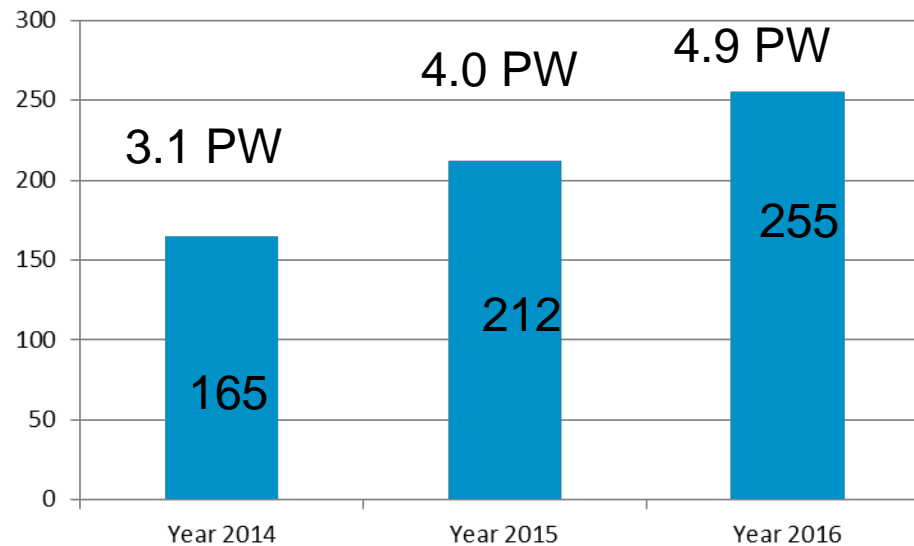


University Hospitals  
Coventry and Warwickshire  
NHS Trust



# Total Number of MHP Activations

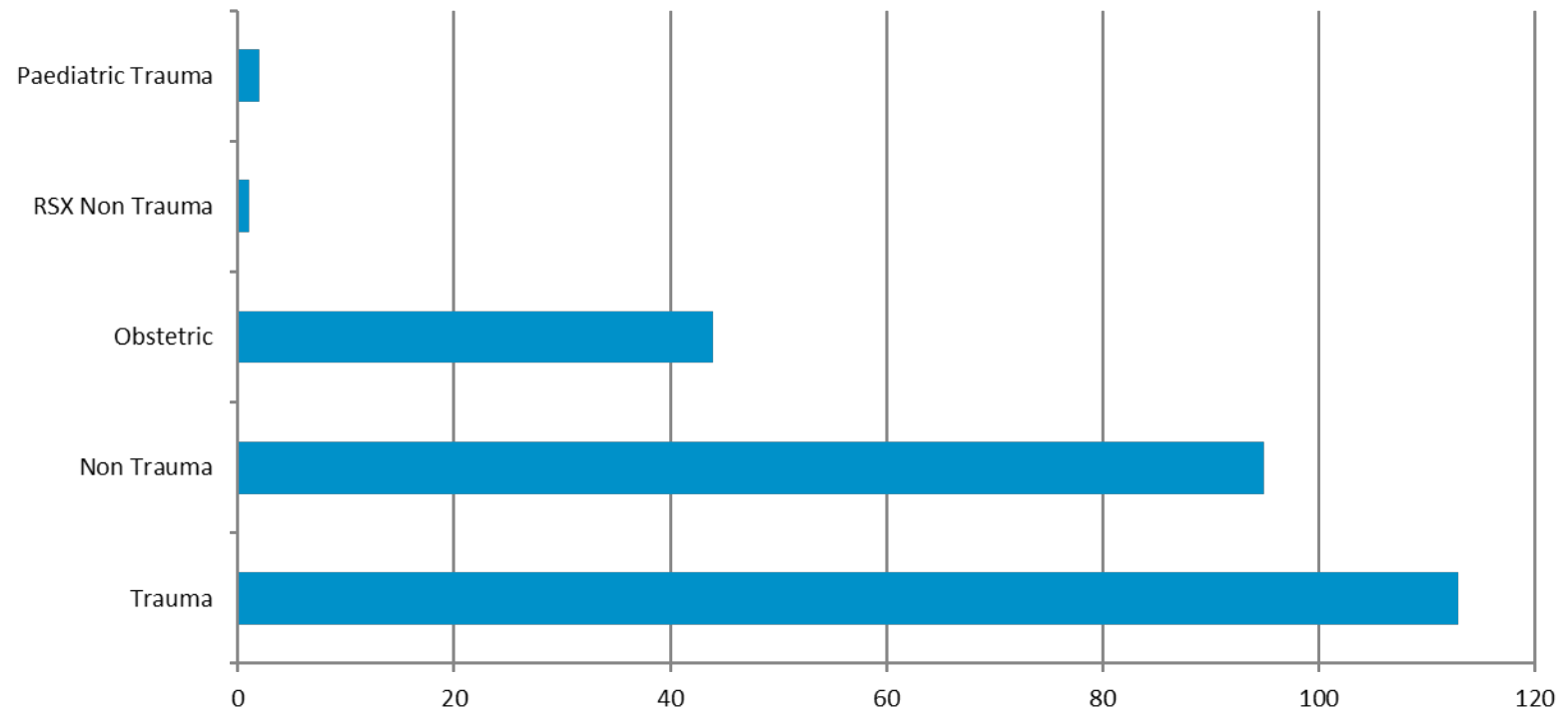
Inclusive of  
all  
activations



Data obtained  
from  
switchboard  
notifications  
and Blood Bank  
audit forms.

PW = Per  
Week

# 2016 MHP Activations



# Background

- Within our Trust, we identified aspects of management of massive haemorrhages that could be improved
- SHOT report 2016 identified delays in transfusion in cases of massive haemorrhage as causes of mortality
- The Massive Haemorrhage Protocol (MHP) at UHCW was updated in 2016



# What we did

We designed a demonstration video of management of massive haemorrhage

And here it is.....







# What we did next

- The video was shown to post-Finals medical students at Warwick Medical School along with a short talk regarding Trust policies
- A short quiz was administered to assess students' knowledge before and after viewing the video
- Topics covered in the quiz: how to activate and stand down the MHP, blood product ratios, team roles within an MHP



# What we found

- 57 quizzes were fully completed
- Average scores increased from 2.93 (pre-video) to 6.12 (post-quiz) out of a maximum of 7 marks available



# What we found

Pre/Post-video	No. of correct answers <u>Q1</u>	No. of correct answers <u>Q2</u>	No. of correct answers <u>Q3</u>	No. of correct answers <u>Q4</u>	No. of correct answers <u>Q5</u>	No. of correct answers <u>Q6</u>
Pre-video	14	43	20	17	12	15
Post-video	33	54	54	51	56	44
% change in correct answers	136%	26%	170%	200%	367%	193%

Q1 - Clinical scenario that would trigger activation of the Massive Haemorrhage Protocol

Q2 – Activation of the Massive Haemorrhage Protocol

Q3 - 2 team roles when managing massive haemorrhages

Q4 – MCQ re: non-trauma blood component ratios

Q5 – MCQ re: trauma blood component ratios

Q6 – Stand-down of MHP



# Our Conclusions

- Medical students' knowledge increased following the video
- However, the true test will be change in clinical practice
- We have made the video available via the Trust intranet for staff to access
- The video will also be used as part of mandatory blood transfusion training



