Grŵp Goruchwylio Iechyd
Gwaed Cenedlaethol
**Blood Health National
Oversight Group**

Senior Student Assistantship (SSA) Transfusion Training 2023

Highlight Summary

May 2023

424 final year medical students across Wales attended one of the **13** transfusion training ½ days.

Each training day had:

Pre-Transfusion Sampling

Transfusion *Play Your Cards Right*

4 interactive stations

Decision to Transfuse

Adverse Reaction
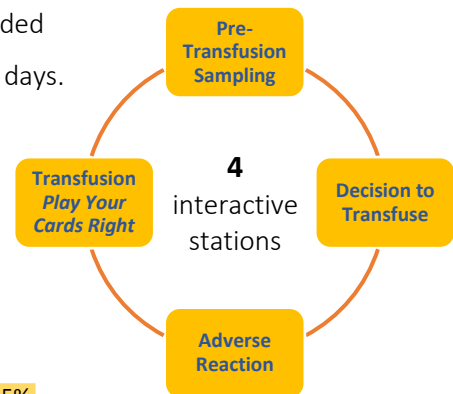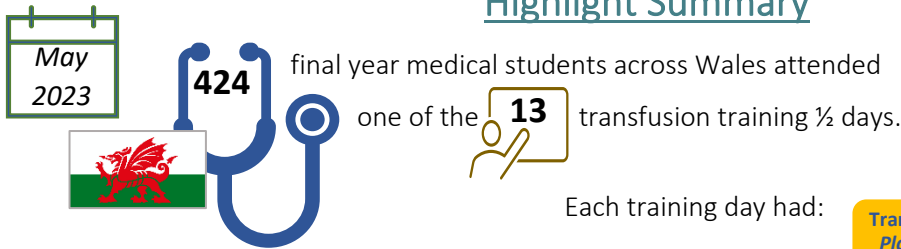
Evaluation

61% of students completed the evaluation survey;

The stations were rated as...

Station	Excellent	Good	Average	Poor
Reaction	53%	42%	5%	
Sampling	53%	43%	4%	
Decision	55%	40%	5%	
PYCR	43%	41%	36%	2%

■ Excellent ■ Good ■ Average ■ Poor
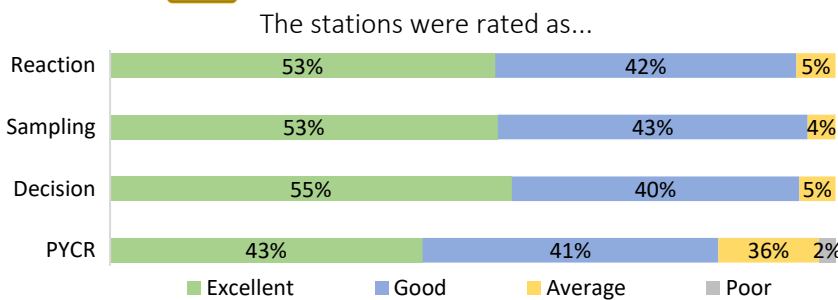
> Transfusion *Play Your Cards Right* [PYCR]: the students 'work' in the transfusion laboratory to ensure the safe and correct issuing of blood components to patients.
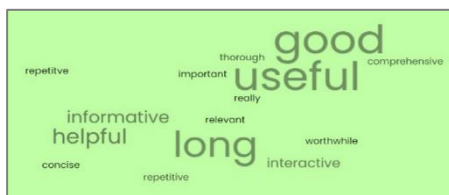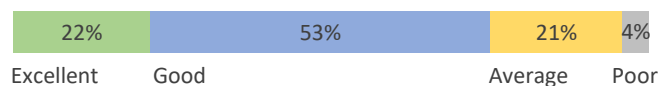
Positive comments about the stations:

Adverse Reaction Sim was an engaging way to learn; made us think on our feet and use existing skills to problem solve, and to consider the patient and the decisions that I would need to make; not a scenario we've covered previously.

Pre-Transfusion Sampling (competency assessment) Good to have a trial of completing a blood transfusion request form; 1-to-1 format good – helpful to get individual feedback and answered any questions I had; reinforcement of knowledge into practice; I feel safe and confident with pre transfusion sampling.

Decision to Transfuse Liked the open discussion; made us think outside the box – learnt about the different situations where transfusion may be applicable; good to look at the blood transfusion form in detail; important to respect people's beliefs.

Transfusion *Play Your Cards Right* Fun, interactive and engaging game to help understand what happens in the transfusion lab.; good overview of lab process and explanation of the different problems that can delay a transfusion.

Negative comments and suggestions were also invited (and received) to inform future development.

Training delivered in the stations was supported by:

THE STRANGE CASE OF PENNY ALLISON

3 Fundamentals of Principles for Safe Transfusion Practice:
a short film was used here to highlight key safety messages; *this was rated as:*

Excellent	Good	Average	Poor
22%	53%	21%	4%

good useful
thorough comprehensive
repetitve important really relevant
informative helpful long worthwhile
concise interactive
repetitive

Blood Transfusion Training (BTT) e-Learning:
students were required to complete 3 transfusion related elearning modules as pre-learning prior to the training day; ◄ the most frequently used comments in evaluation were.
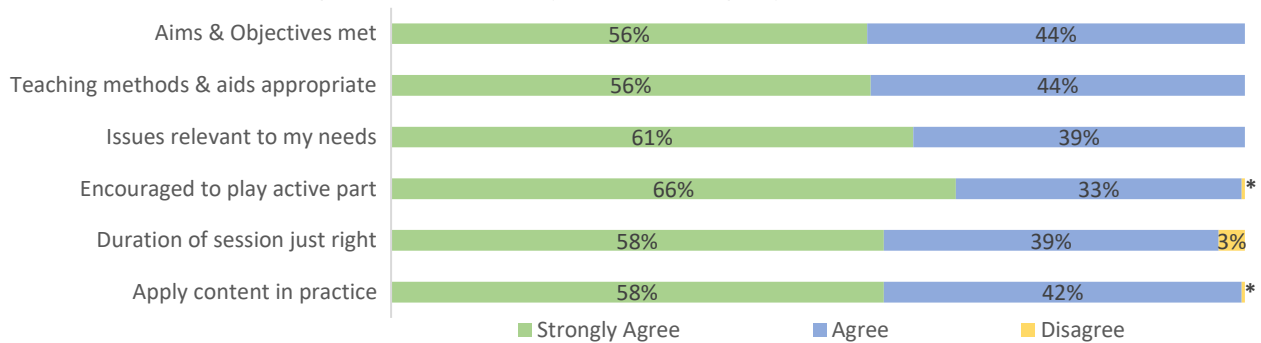
🩸 **What's My Type:** at one training day WBS facilitated the students testing their own blood group; all of the students said this was excellent (45%) or good (55%), and...

one third ⅓ were going to make an appointment to donate blood.

Rating the overall delivery of the training day, the students felt…

Category	Strongly Agree	Agree	Disagree
Aims & Objectives met	56%	44%	
Teaching methods & aids appropriate	56%	44%	
Issues relevant to my needs	61%	39%	
Encouraged to play active part	66%	33%	*
Duration of session just right	58%	39%	3%
Apply content in practice	58%	42%	*

■ Strongly Agree   ■ Agree   ■ Disagree

* Both of these are actually 0.4% (n=1/260), but round down to 0%.

Pre- & Post- training self-assessment

52% of students completed <u>both</u> of these assessments.

Area of knowledge / practice (self-) assessed	Self-assessment…	Proportion of students rating themselves…			
		Poor	**Average**	**Above Average**	**Excellent**
Blood components and the transfusion process	*Pre-training*	18%	71%	10%	1%
	Post-training	▼2%	▼22%	▲62%	▲14%
Provision of blood components from the blood bank	*Pre-…*	29%	63%	7%	1%
	Post-…	▼1%	▼28%	▲58%	▲13%
Performing Positive Patient Identification	*Pre-…*	5%	46%	41%	8%
	Post-…	▼0%	▼12%	▲33%	▲55%
Pre-transfusion sample labelling	*Pre-…*	21%	57%	19%	3%
	Post-…	▼0%	▼14%	▲38%	▲48%
Making clinical decision to transfuse a patient	*Pre-…*	23%	68%	9%	0%
	Post-…	▼1%	▼32%	▲54%	▲14%
Discussing the decision to transfuse with a patient and answering their questions	*Pre-…*	28%	61%	10%	1%
	Post-…	▼1%	▼22%	▲57%	▲20%
Completing the All-Wales Transfusion Record	*Pre-…*	44%	49%	6%	1%
	Post-…	▼1%	▼21%	▲47%	▲31%
Identification and management of a blood transfusion	*Pre-…*	32%	59%	9%	0%
	Post-…	▼2%	▼33%	▲48%	▲16%
Understanding the requirements of a confirmatory sample	*Pre-…*	34%	59%	5%	1%
	Post-…	▼1%	▼22%	▲51%	▲26%

Overall student feedback was very positive, and

self-assessment shows a positive impact across all learning outcomes

…but, many F1 Drs went to medical schools outside of Wales and don't get SSA transfusion training.

Recommendations

- Review of comments and feedback to inform SSA 2024 Transfusion Training.
- Develop standardised/all Wales F1/F2 transfusion training.
- Enhance communication channels with Welsh medical students.
- Full report including HB specific data is available from WBS.bloodhealthteam@wales.nhs.uk