

Improving Stroke Education through Simulation:

Experiences from the 1st Welsh- BIASP Joint Stroke Simulation Course

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Background

- Stroke care requires rapid multidisciplinary teamwork.
- BIASP started stroke simulation in 2023 across U.K
- Simulation is underused in stroke training across Wales.
- Aim:** In February 2025, Hywel Dda University Health Board partnered to deliver the 1st Welsh BIASP stroke simulation course.

Methods and Course design

- 1-day course with 6 scenarios at Withybush Hospital
- Stroke Simulation Intranet
- Pre course materials and online registration
- Team leader, team member or observer roles
- Recognition, identifying imaging, reperfusion therapies (thrombolysis and thrombectomy) and complications.
- Prebrief and debriefs
- Evaluation through participant feedback.
- Survey on current opportunities and barriers across Wales.

Conclusion

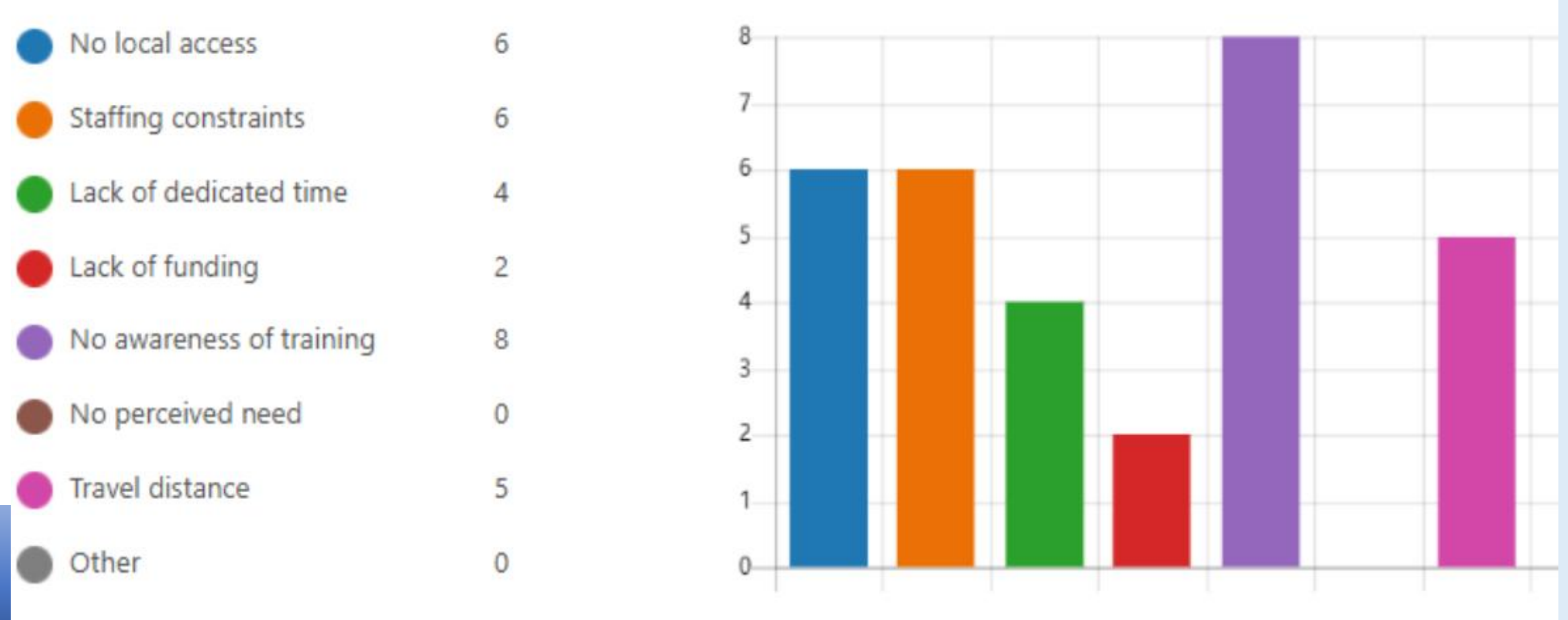
- Simulation training improves stroke outcomes through enhancing knowledge, communication and team working skills.
- Joint regional stroke units partnerships with BIASP for sharing and learning can overcome current barriers.
- Further pilot planned in Glangwilli Hospital in November 2025.
- This partnership has given us confidence to conduct three further courses in 2026.

Results

- 12 participants** (FY1,2, IMT, Specialty doctors)
- 4 Observers (Stroke specialist nurses, Acute Med Consultant)
- Increased confidence in stroke assessment and decision-making
- Team communication and role clarity
- 100% recommended the course continue

Scores (89 candidates)	Pre Course Median (IQR)	Post Course Median (IQR)	P Value
Confidence in managing acute strokes	6 (5-7)	9 (8-9)	<0.00001
Confidence in using thrombolysis	7 (5-8)	9 (8-9)	<0.00001
Confidence in using thrombectomy	6 (4-7)	8 (8-9)	<0.00001
Confidence in managing ICH	7 (6-8)	9 (8-9)	<0.00001

What are the biggest barriers to access Stroke simulation in Wales?



Feedback

5 Think about stroke mimics: Having people from differen	No	Nothing comes to mind	5	5 It was really great, I learnt a lot and found it really useful.
5 Pregnancy associated thr	Having to participate and	N/A	5	5
5 Closed loop communicati	Collection of knowledge, I	None	5	5
5 Pregnancy and stroke, ha	Simulation of different sce	No	5	5 Amazing day, very useful thanks
1. If it's obvious stroke . C				
2. Coagulation profile bef				
5 3.recent surgery and preg	Brief and Q&A sessions	No	5	5
If features consistent with	CT H/A has lower risk for			
Discussion with multidisci				
5	A lot	No	5	5 No
Importance of teamwork				
Mindful of amount of iv flu				
Communication				
5	Discussion and debrief	No	5	5
5 Thrombolysis in pregnanc	As above	Not applicable	5	5 Excellent
5 Stroke management in pr	Stroke management in pr	No	5	5 Very successful workshop
5 thrombolysis in pregnancy, real life scenarios		no	5	5 no
- dynamic NIHSS assessr				
- stroke and pregnancy m				
5 - BP management	- debriefs and teaching fr	No	5	5
5 Managing pregnant wom	Stroke in pregnancy	No	5	5
5 CT prior to examination, tl	Better understanding of st	Overall good	4	4

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