

76 bodyswaps

Hi, we're Bodyswaps.

Here's how we're leveraging VR & AI to train healthcare practitioners in effective communication skills.

Hone your soft skills without fear of consequences.

1. Scaffolded interactive lessons and practice exercises with virtual humans
2. A psychologically safe perspective-taking experience
3. AI-powered feedback and personalised improvement plan

1. LEARN



2. PRACTICE



3. GET FEEDBACK

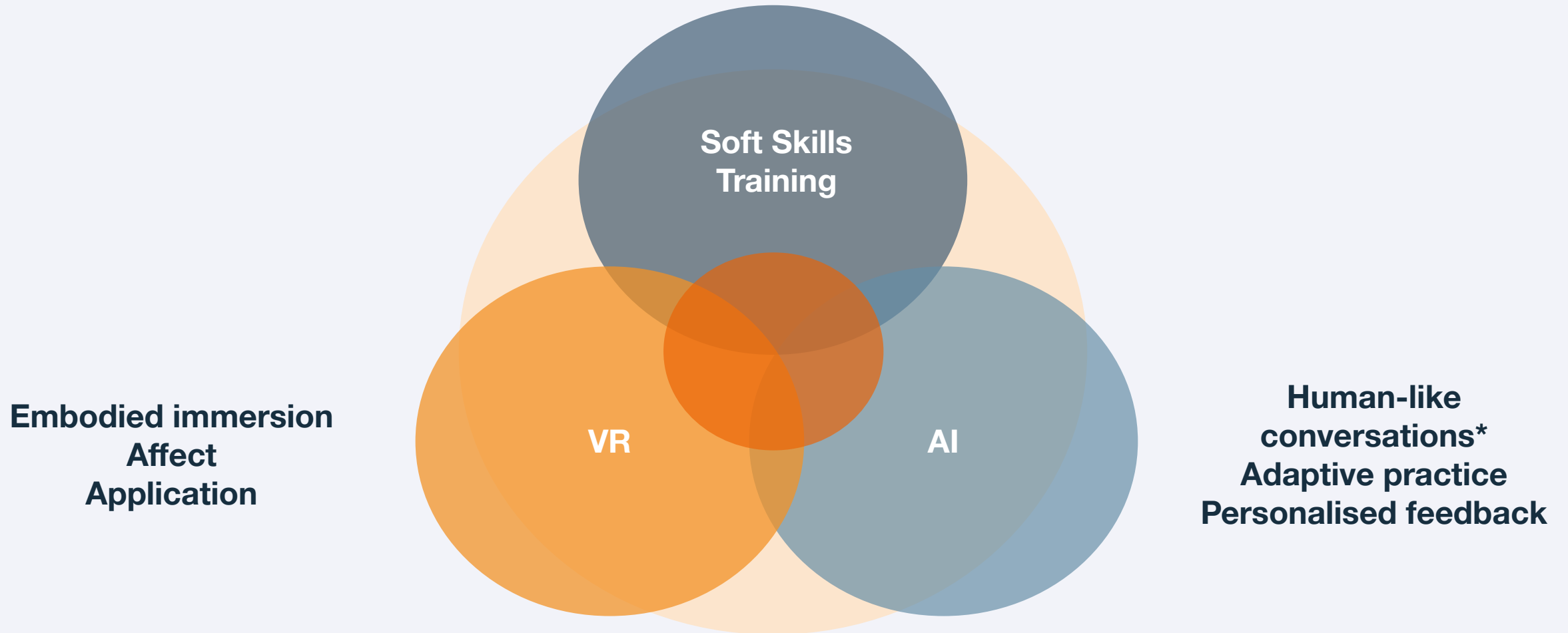


**Trusted by over 30 healthcare
education institutions and
providers...**

**...to offer engaging & impactful
communication skills training
for all healthcare professionals**

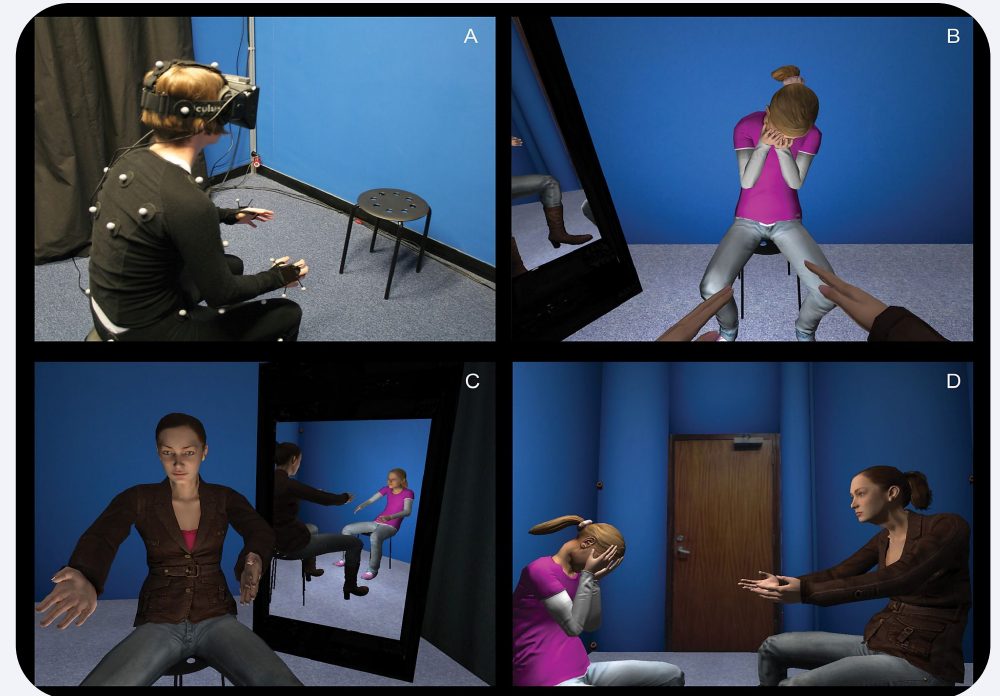


Soft skills training + AI +VR : the perfect match?



The Aha moment

Mel Slater et al. (2016) - Embodying self-compassion within virtual reality and its effects on patients with depression



AI Tutoring Outperforms Active Learning

Students Learned Twice As Much With AI Tutor Than Typical Lectures

Tor Constantino, MBA Contributor ©
Tor Constantino is an ex-reporter, turned AI consultant & tech writer.

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Sep 18, 2024, 01:03pm EDT

Updated Sep 18, 2024, 01:26pm EDT



teacher in classroom holding laptop standing next to student v

We may be on the verge of a revolutionary breakthrough specifically designed generative AI tutors are as smartboards.

According to a new study from a team of Harvard models trained on best teaching practices may be catering to students' individualized pace and p

During a 75-minute period, the in-class students spent 15 minutes taking the pre/post tests so we assumed 60 minutes spent on learning. For students in the AI group, we tracked students' use on the AI tutor platform to measure how long they spent on the material, the distribution for which is shown in Fig. 2. 70% of students in the AI group spent less than 60 minutes on task, while 30% spent more than 60 minutes on task. The median time on task for students in the AI group was 49 minutes.

Figure 2. Total time students in the AI group spent interacting with the tutor. Dotted line denotes the length of the active lecture (60 minutes).

Learning gains: linear regression model

We constructed a linear regression model (Table 1) to better understand how the type of instruction (active learning versus AI tutor) contributed to students' mastery of the subject matter as measured by their post-test scores. This model includes the following sets of controls. First, we controlled for background measures of physics proficiency: specific content knowledge (pre-test score), broader proficiency in the course material (midterm exam before the study), and prior conceptual understanding of physics (Force Concept Inventory or FCI)¹⁸. We also controlled for students' prior experience with ChatGPT. Next, we controlled for factors inherent to the cross-over study design: the class topic (surface tension vs fluids) and the version of the pre/post tests (A vs B; see supplemental information). Finally, we controlled for "time on task." Given that our experiment is a crossover design where each student receives both conditions, this model clusters at the student level.

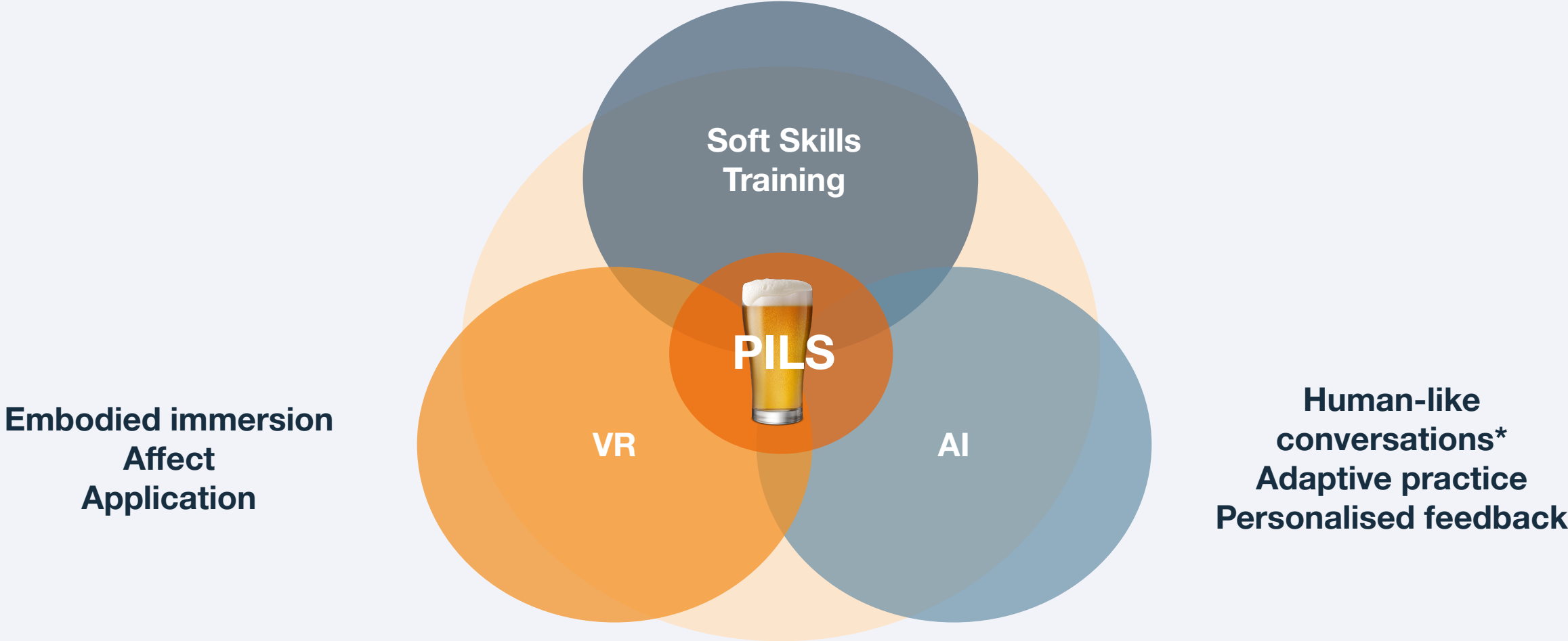
Table 1
Linear Regression Model.

Regression Parameter	Standardized coefficients
Class session (Active lecture = 0, AI = 1)	0.63***
Pre-test (z score)	0.18**
Midterm exam score (z-score)	0.09
FCI pre-test (z-score)	0.11
Prior AI Experience	-0.15**
Class session topic (Fluids = 0, Surf. tension = 1)	0.01
Test version (A versus B)	-0.04
Time on task	0.1
Constant	0.12
R ²	0.21
RMSE	0.86

Table 1 shows that, controlling for all these factors, the students in the AI group performed substantially better on the post-test compared with those in the active lecture group. We show this to be a highly significant ($p < 10^{-5}$) result with a large effect size. While the linear regression suggests an effect size of 0.63, this is an underestimation due to ceiling effect; a quantile regression allows us to provide an estimate of the effect size that avoids ceiling effect in the post-test scores. Such an analysis provides an effect size in the range of 0.73 to 1.3 standard deviations.

Notably, there was no correlation between the time spent on learning and students' post-test scores, despite quite a wide range of times measured for the AI group (Fig. 2). As discussed further below, students' ability to pace themselves with the

PILS - Personalised Immersive Learning Simulations





The ROYAL
SOCIETY *of*
MEDICINE

+

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The Big Picture

“More than half of UK doctors have seen or experienced abuse by patients or their relatives in the last year.”



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Doctors ● This article is more than 2 months old

Survey shows high levels of abuse of UK doctors by patients

Exclusive: research finds accounts of being spat at and having hair pulled as delays for care cause frustration

Denis Campbell *Health policy editor*
Thu 22 Jun 2023 05:00 BST



 The public are talking out their frustration at delays and staff shortages on the NHS staff they encounter. Photograph: Nick Moore/Alamy

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-  If Putin has eliminated Prigozhin, the result could be more - not less - instability for Russia *Samantha de Bendern*
-  'A tired old show': Friends writer claims cast deliberately ruined jokes

Objectives

Improve communication skills to...

**protect the healthcare
practitioner**

**improve patient
outcomes**

Limitations of the standardised patient approach



LEARNING PERFORMANCE

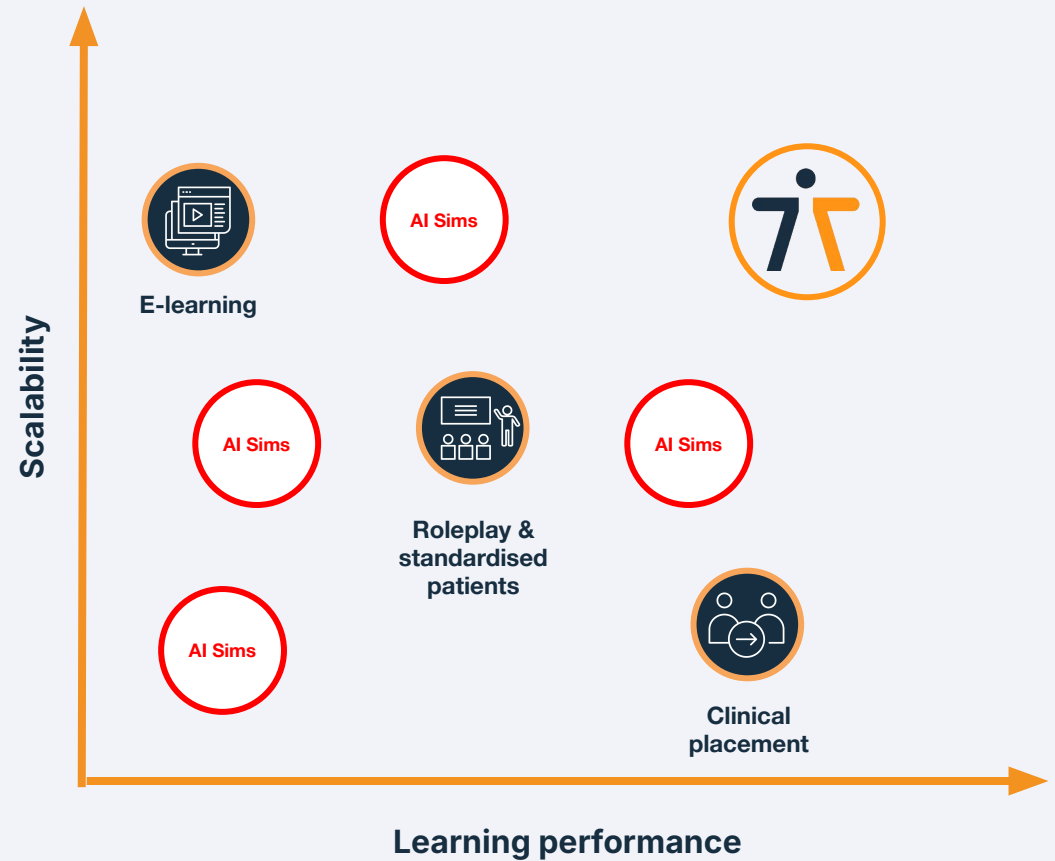
- 1 Too little practice
- 2 Lack of psychological safety
- 3 Communication as a secondary objective



ORGANISATIONAL IMPACT

- 1 Direct costs
- 2 Indirect costs
- 3 Patient safety and operational consequences

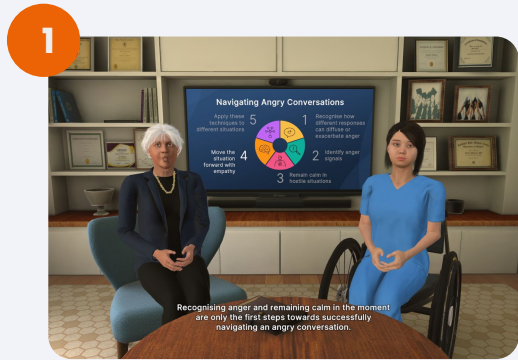
The rise of soft skills & the challenge with teaching them.



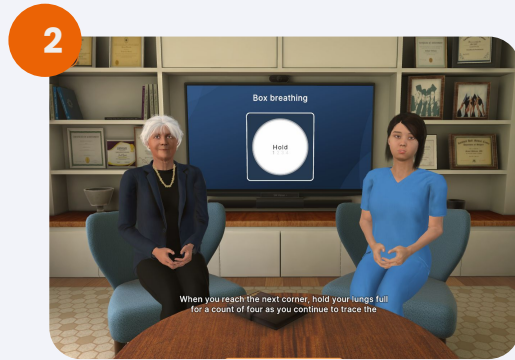


**Professor Dame Lesley
Fallowfield (DBE, BSc, DPhil,
FMedSci)**

Navigating angry conversations



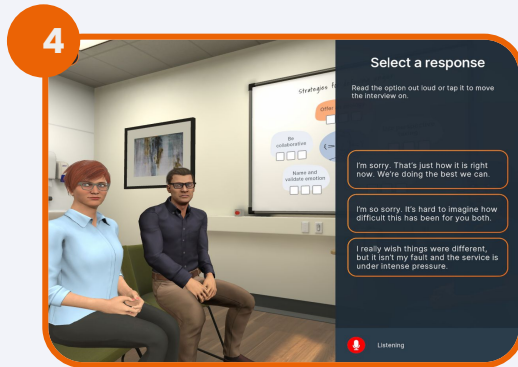
Introduction & self-reflection



Practice breathing and grounding



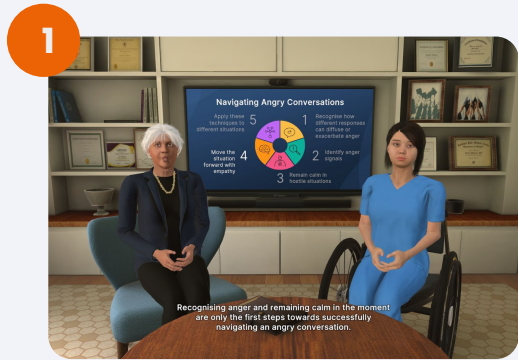
Identify anger signals



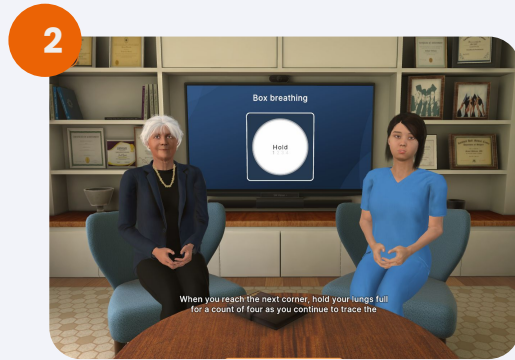
Respond with empathy



Navigating angry conversations



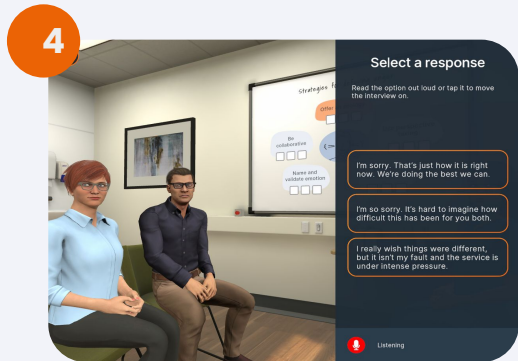
Introduction & self-reflection



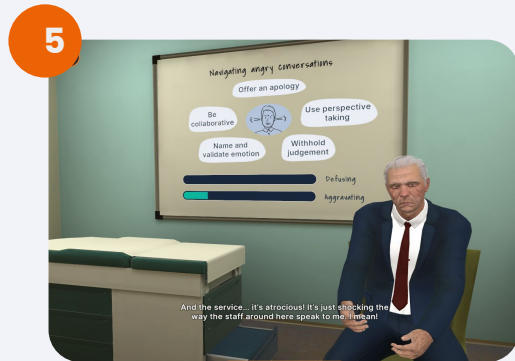
Practice breathing and grounding



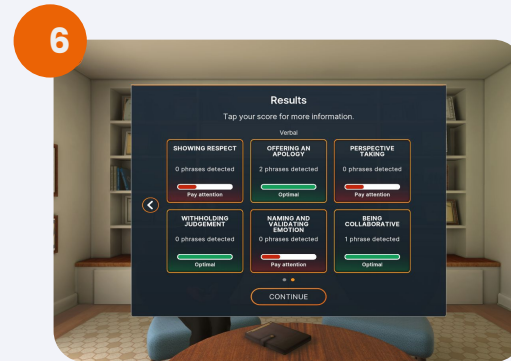
Identify anger signals



Respond with empathy



Practice in your own words



Get feedback

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Results

Tap your score for more information.

Verbal

<p>SHOWING RESPECT</p> <p>1 phrase detected</p> <p>Optimal</p>	<p>OFFERING AN APOLOGY</p> <p>2 phrases detected</p> <p>Optimal</p>	<p>PERSPECTIVE TAKING</p> <p>0 phrases detected</p> <p>Pay attention</p>
<p>WITHHOLDING JUDGEMENT</p> <p>3 phrases detected</p> <p>Pay attention</p>	<p>NAMING AND VALIDATING EMOTION</p> <p>1 phrase detected</p> <p>Optimal</p>	<p>BEING COLLABORATIVE</p> <p>1 phrase detected</p> <p>Optimal</p>

CONTINUE

Offering an apology

Here are the words we might have expected to hear with your words highlighted.

sorry apologise difficult for you hard for you

It's great that you offered William an apology. This needn't be seen as an admission of guilt - simply an acknowledgement of the difficulties he's experiencing.

Withholding judgement







Here are the words you might have used if you had allowed yourself to show judgement.

rude racist calm down wrong sexist nasty
you have no right disgusting outrageous old man bad

It looks like you might have let your opinions influence your response to Major Sanderson.

When someone is being obnoxious, it's easy to forget that they're probably feeling hurt, scared or vulnerable themselves - especially when they're in need of medical care.

The New Reality

	Elearning	Standardised patients	Bodyswaps
 Engaging	✗	✓	✓
 Self-paced & repeatable	✓	✗	✓
 Risk-free and psychologically safe	✓	✗	✓
 Unbiased personalized feedback	✗	✗	✓
 Self-efficacy boosting	✗	✗	✓
 Performance competency data	✗	✗	✓

The results so far

5,000+

Sessions in
*Navigating Angry
Conversations*

83%

identified areas to
improve on *their* skills.

85%

would recommend to
their peers.



For me, why BodySwaps is exciting is I've not
really

A man with short, light-colored hair is seated in a room with a classic, somewhat dimly lit interior. He is wearing a light-colored blazer over a light blue button-down shirt. The background features several wooden chairs with decorative backs, a framed picture on the wall, and a doorway leading to another room. The overall atmosphere is quiet and professional.

You know, giving patients upsetting news, they say that if

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Get started!

Step 1: Download Bodyswaps on VR, PC or Mobile



Step 2: Enter your Access Code: **139859**

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