

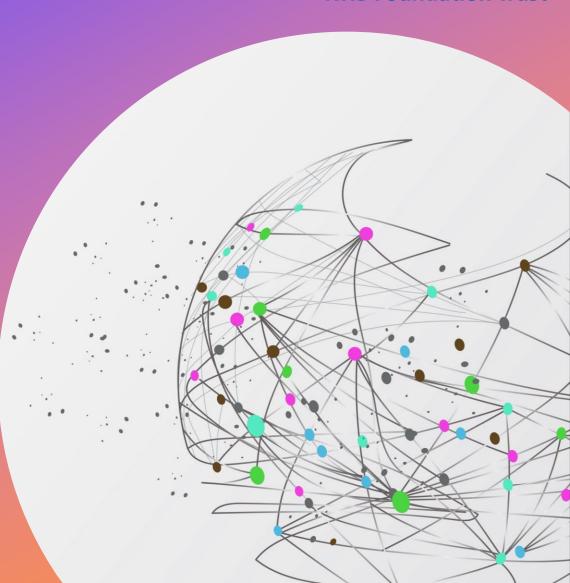
### **University Hospitals Sussex**

**NHS Foundation Trust** 

THE EFFECTIVENESS **OF A VITUAL** PRESCRIBING COURSE **FOR FINAL YEAR** MEDICAL STUDENTS PREPARING FOR THE PRECRIBING SAFETY **ASSESSMENT** 

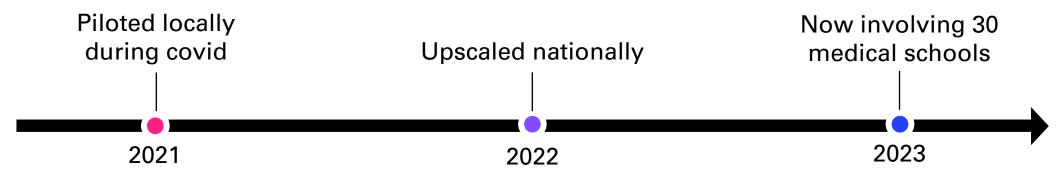
**Leading for the Future Conference** 

Dr Clare Bartholomew and Dr Phoebe Carter



## Background

- The Prescribing Safety Assessment (PSA) is a national exam sat by final year medical students<sup>[1]</sup>
- Students report feeling underprepared both for the PSA<sup>[2]</sup> and when they start prescribing as foundation doctors<sup>[3]</sup>, in whom the GMC found an 8.9% prescribing error rate<sup>[4]</sup>
- To help students feel more prepared we designed and ran a free virtual prescribing course called 'Prepare for the PSA'



## Aims and objectives

 The aim was to investigate the effectiveness of the course in preparing students for the PSA

- The **objectives** were to:
  - Collect quantitative data on self-reported preparation levels before and after the course
  - 2. Run a pre- and post-course test to assess the change in score after completion of the course
  - 3. Collect qualitative feedback about the course

## Methods

- Ran over two weeks in January 2023 prior to main exam sitting in a live and recorded virtual format
- Advertised through medical schools, social media and word of mouth
- Feedback collected after each session and once students had received their results
- Students invited to participate in a pre- and post-course test
- Sessions based around timed practice questions formatted in the style of the PSA with integrated finals revision, a mock exam and certificates



### **COURSE OVERVIEW**

A free course of four sessions covering everything you need to know to pass the PSA. Run by two junior doctors who have recently sat the exam themselves. Based around practice questions with excellent feedback received for the last two years.

"The best PSA course I've attended"

"Everything was delivered in a clear and concise way with so many useful tips"

### WHEN IS IT

13/01/23 17:00 - PSA breakdown / CAL

19/01/23 17:00 - PWS with finals revision along the way

23/01/23 18:00 - Tips and tricks to navigate the BNF / REV

25/01/23 18:00 - Everything else (MAN, COM, ADR, TDM, DAT) / Mock exam info

### WHY ATTEND

- Sessions via Microsoft Teams
- Understand the question breakdown and how to maximise your mark
- Integrated finals revision
- Over 100 practice questions in the style of the PSA
- Powerpoints and certificates available
- Sessions recorded to rewatch
- Complete mock exam with answers

### **HOW TO JOIN**



Scan the QR code to find us on Facebook. We will post updates and links to join each session here.

Alternatively, please email prepareforthepsa@gmail.com to get in touch and register your interest.



### Clare Bartholomew @iamclarebart · Dec 15, 2022

Excited to run Prepare for the PSA again in January! A free virtual course for final year medical students with integrated finals revision. Find us on Facebook for more info!



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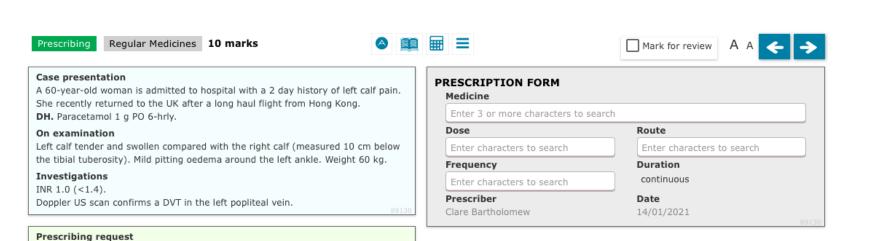
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### Prepare for the PSA

Join Group





Official **PSA** past paper

General Practice 10 marks

(use the 'hospital regular medicines' prescription form provided)

Write a prescription for ONE drug that is most appropriate to treat her DVT.















### Case presentation

A 59-year-old woman is reviewed for hypercholesterolaemia by her GP. PMH. Hypertension DH. Lisinopril 20mg PO once daily. SH. She eats a balanced diet, non-smoker.

### On examination

Corneal arcus in both eyes. BP 132/84.

### Investigations

Serum cholesterol 7.6mmol/L (<5.2), LDH cholesterol 5.50mmol/L (<3.36), HDL cholesterol 1.10mmol/L (>1.55), fasting serum triglycerides 1.90mmol/L (0.45-1.69). Her 10-year cardiovascular risk is estimated to be 24%.

### Prescribing request

Write a prescription for ONE drug that is most appropriate to lower her cholesterol.

(use the 'general practice' prescription form provided)

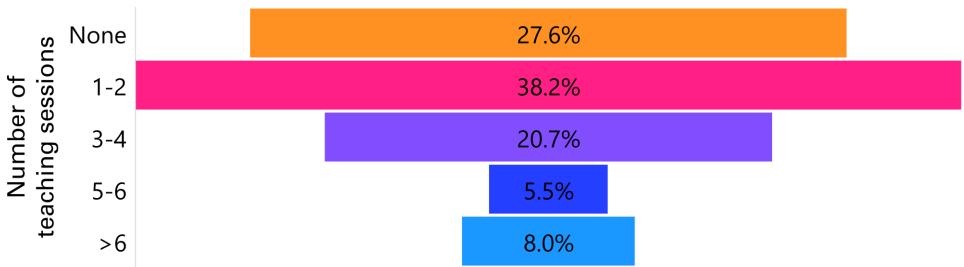
PRESCRIPTION FORM Medicine	
Dose	Route
Frequency	Duration 28 days
Prescriber Joe Bloggs	<b>Date</b> 01/01/2021

Prepare for the **PSA** 

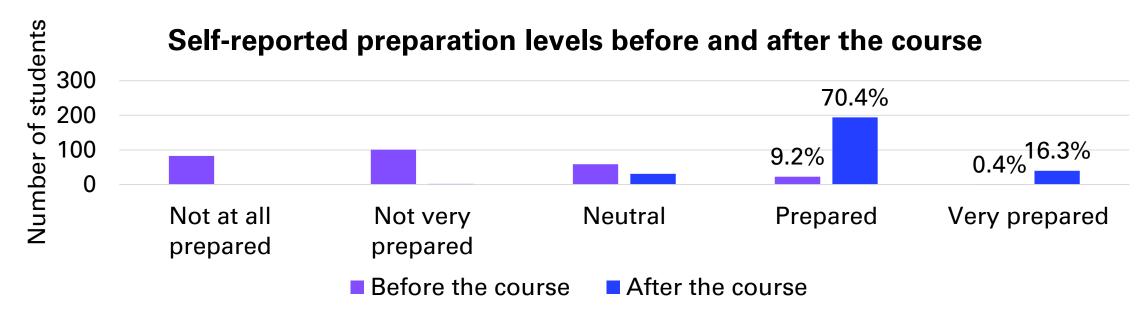
## Results

- Over 1000 feedback forms collected from students at 30 medical schools
- 63.4% heard about the course through word of mouth





# Quantitative analysis



- Students 'agreed' or 'strongly agreed' the course helped with their revision (95.3%), helped them to pass (95.9%) and improved their mark (90.3%)
- 100% passed the PSA with an average mark of 80.4%

## Pre- and post-course test

- 10 question (34 marks) pre- and post-course test completed by 20 students
- Normality assessed with Shapiro-Wilk then paired t-test applied
- Statistically significant increase in post-course test mark with pre-course mean 25.7 (SD 4.8) and post-course mean 30.6 (SD 2.7) (p<0.001)</li>

perfect explanations dedicated advanced wonderful excellence grateful free appreciated concise fun confident invaluable fantastic helpful tips accessible inclusive amazing useful consolidate Structured brilliant tricks prepared worthwhile excellent improved OVERVIEW comprehensive knowledgable

systematic organised

# Qualitative analysis and feedback

Consistent feedback praised the virtual delivery, interactive nature and mock exam

- ✓ "You make the PSA fun if I am allowed to say that!"
- ✓ "Everything was so brilliant...it was like a light had been turned on"
- "You've taught me more than I've learnt pouring for days over other resources"

# Key messages



Many students had limited teaching at medical school



The results show increased self-reported preparation levels and post-test scores in students completing the course



A virtual prescribing course appears to be a convenient and effective adjunct to undergraduate teaching

## Going forward

Journal paper

Run again in 2024

Website

Instagram and Twitter

Recruit F1 and pharmacist

## References

- General Medical Council. Outcomes for Graduates. Available from: <u>https://www.gmc-uk.org/education/standards-guidance-and-curricula/standards-and-outcomes/outcomes-for-graduates</u> [Accessed 12th March 2022].
- 2. Field S, Burstow N, Owen D and Sam A. Using team-based revision to prepare medical students for the prescribing safety assessment. *Advances in Medical Education and Practice* 2019;10:501-506.
- 3. Rothwell C, Burford B, Morrison J et al. Junior Doctors prescribing: enhancing their learning principle. *Br J Clin Pharmacol* 2012;73(2):194-202.
- 4. Dornan T, Ashcroft DM, Heathfield H, et al. 2009. An in depth investigation into the causes of prescribing errors by foundation trainees in relation to their medical education. EQUIP study.