



UNIVERSITY OF
SURREY

**IDENTIFICATION OF
EDUCATIONAL MILESTONES
AND ENTRUSTABLE
PROFESSIONAL ACTIVITIES
FOR DAY ONE PRESCRIBING
COMPETENCE**

WORKSHOP PROGRAMME

14 May 2024

OUR SPONSOR INTRODUCTION



The Institute of Advanced Studies (IAS) at the University of Surrey sponsors workshops and Fellowships at the 'cutting edge' of science, engineering, social science and the humanities. Through this scheme the Institute fosters interdisciplinary collaborations and encourages a flow of international scholars to visit, enjoy their stay at Surrey and leave behind excellent ideas and

This workshop brings together educators from veterinary medicine, medicine, pharmacy, and nursing to identify Entrustable Professional Activities (EPAs) and Educational Milestones for Day One Prescribing Competence. The goals of the workshop are:

- To learn from experts in the fields of competency-based and pharmacology education.
- To build on existing work in the area of EPAs and Milestones to specifically address competencies associated with the appropriate selection of medicines and safe and effective prescribing.
- To support educators translate EPAs and milestones into teaching practice.
- To promote and support learning across health professions education.

Workshop Organiser:

Dr Martin Hawes, School of Veterinary Medicine, University of Surrey

Administrative support:

Louise Jones, Institute of Advanced Studies

WORKSHOP SESSIONS AND PARTICIPANTS

Workshop participants will attend in-person (at University of Surrey, UK) or online. In order to enable global participation, there will be 2 overlapping sessions:

- Session 1: 09:30 – 16:30 (UK time) on 14 May 2024
- Session 2: 14:30 – 21:30 (UK time) on 14 May 2024

Online attendees: Microsoft Teams calendar invitations will be sent to participants for both sessions – on the day please join the online session most convenient for your time zone.

In-person attendees: The meeting will be held in Room 02 IFH 01, Stag Hill Campus, University of Surrey. Separate directional instructions will be sent to external in-person attendees.

In total we have 69 registered participants from 14 nations.

Attendees' Locations



WORKSHOP OVERVIEW

Pre-workshop:

Pre-reading material and a recorded interview with one of our speakers, Dr Helen Hull, University of Portsmouth (reading list and recording link below).

Workshop:

The workshop will consist of:

- Presentations from invited speakers plus time for questions
- Three working sessions in break-out groups with plenary feedback for each session.

Post-workshop:

A workshop report posted on the University of Surrey Institute for Advanced Studies website.

PRE-READING MATERIAL AND RECORDED INTERVIEW

Please familiarise yourself with the following articles prior to the workshop:

- The Competency-Based Veterinary Education framework – this will be used as an exemplar framework of EPAs and Milestones during the workshop. The co-chair of the working group, Dr Kristin Chaney, is one of our guest speakers.

AAVMC Council on Outcomes-based Veterinary Education, Chaney KP, Hodgson JL, Banse HE, Danielson JA, Foreman JH, Kedrowicz AA, Meekins JM, Read EK, Salisbury SK, Taylor RM, Frost JS. (2024) CBVE 2.0 Model. Washington, DC: American Association of Veterinary Medical Colleges.

[Download](#) the open access framework.

- The Core Competencies of Pharmacology – These basic science concepts underpin prescribing competence and have been defined and unpacked by a group of over 250 pharmacologists worldwide. The lead author, Professor Clare Guilding, is one of our guest speakers.

Guilding, C., White, P., Cunningham, M., Kelly-Laubscher, R., Koenig, J., Babey, A-M., Tucker, S., Kelly, J., Gorman, L., Aronson, P., Hawes, M., Ngo, S., Mifsud, J., Werners, A., Hinton, T., Khan, F., Aljofan, M. and Angelo, T. (2023) Defining and unpacking the core concepts of pharmacology: a global initiative. British Journal Clinical Pharmacology

[Download](#) the open access article.

- The following article by Arno Werners and Virginia Fajt describes the outcome of a Delphi study to identify a consensus set of core competencies in basic and clinical pharmacology for day one veterinary graduates. Many of the competencies are essential for prescribing competence across health disciplines. Professor Werners is one of our guest speakers.

Werners A, Fajt V. What a veterinary graduate should know about basic and clinical pharmacology: A Delphi study to finalize day-1 competencies. J Vet Pharmacol Therap. 2021; 44: 568–574.

[Download](#) the open access article.

Please listen to the following discussion prior to the workshop:

Please click on the following link to listen to an interview with Dr Helen Hull which provides a real-world example of implementing EPAs and Milestones into practice. Dr Hull describes the process and challenges she faced for the pharmacy degree at University of Portsmouth.

[Audio recording](#) Passcode: ?3NcBx75

PROGRAMME

TUESDAY 14 MAY

Innovation for Health Building, Room 02 IFH 01

GROUP 1

(BST)

09.30 – 09.40	Welcome and introduction - Dr Martin Hawes
09.40 – 10.10	Core concepts of pharmacology - Professor Clare Gilding
10.10 – 10.50	Prescribing Day 1 Competencies - Professor Arno Werners
10.50 – 11.00	Instructions - Dr Martin Hawes
11.00 – 11.20	Coffee Break
11.20 – 12.10	Breakout Groups – Session 1
12.10 – 12.30	Feedback from Session 1
12.30 – 13.10	Lunch
13.10 – 13.50	Breakout Groups – Session 2
13.50 – 14.20	Feedback from Session 2
14.20 – 14.40	Coffee Break
14.40 – 15.10	COVE – CBVE Implementation and future plans - Dr Kristin Chaney
15.10 – 16.00	Breakout Groups – Session 3
16.00 – 16.20	Feedback from Session 3
16.20 – 16.30	Wrap-up - Dr Martin Hawes
16.30	Close

GROUP 2

(BST)

14.30 – 14.40	Welcome and introduction - Dr Martin Hawes
14.40 – 15.10	Joint session with Group 1: COVE – CBVE Implementation and future plans - Dr Kristin Chaney
15.10 – 15.40	Core concepts of pharmacology - Professor Clare Gilding
15.40 – 16.10	Prescribing Day 1 Competencies - Professor Arno Werners
16.10 – 16.30	Coffee Break
16.30 – 16.40	Instructions - Dr Martin Hawes
16.40 – 17.30	Breakout Groups – Session 1
17.30 – 17.50	Feedback from Session 1
17.50 – 18.30	Lunch
18.30 – 19.20	Breakout Groups – Session 2
19.20 – 19.40	Feedback from Session 2
19.40 – 20.00	Coffee Break
20.00 – 20.50	Breakout Groups – Session 3
20.50 – 21.10	Feedback from Session 3
21.10 – 21.15	Wrap-up - Dr Martin Hawes
21.15	Close

All times are expressed as London, United Kingdom time on 14 May 2024. You can convert to your own time zone using this [tool](#).

ABSTRACTS AND SPEAKERS

Our international speakers come from the fields of medicine, veterinary medicine and pharmacy education:

Professor Clare Guilding



Professor Guilding is Professor of Pharmacology and Medical Education at the School of Medicine, University of Newcastle, UK. Professor Guilding is Chair of the International Union of Basic and Clinical Pharmacology Education Section and Vice President (Academic Development) of the British Pharmacological Society.

Professor Arno Werners



Professor Werners is Assistant Dean of Academics and Professor of Pharmacology and Toxicology at the School of Veterinary Medicine, St George's University, Grenada. Professor Werners is President of the European College of Veterinary Pharmacology and Toxicology.

Dr Kristin Chaney



Dr Chaney is Clinical Associate Professor, Veterinary Integrative Biosciences at the School of Veterinary Medicine and Biomedical Sciences, Texas A&M University, USA. Dr Chaney co-chairs the American Academy of Veterinary Medical Colleges Council for Outcomes-based Veterinary Education.

Dr Helen Hull



Dr Hull is Programme Lead for Pharmacy and Pharmacology, Course Leader for the MPharm degree programme and a principal lecturer in Pharmacy Practice at the School of Pharmacy and Biomedical Sciences, University of Portsmouth, UK. Discussion: Implementation of EPAs and Milestones into the Pharmacy Degree at University of Portsmouth (pre-recorded interview).

WORKSHOP SESSIONS

Session 1:

In this session the aim is to identify prescribing-specific EPAs and milestones for CBVE-competencies 1.3; 1.4; 1.6 and 1.7.

Break out groups will each work on one of these 4 competencies and identify prescribing-related activities for each of the milestone stages: 'Pre-Novice 1'; 'Pre-Novice 2'; 'Novice'; 'Advanced Beginner'; 'Competent' and 'Proficient' milestones.

Questions to ask yourselves:

- What activities do I expect a student to be able to perform on their journey towards prescribing competence at each milestone?
- What knowledge and skills do they need in order to achieve those activities.
- How will I recognize that a student has achieved the milestone?
- Which core concepts of pharmacology / Day One prescribing competencies are required to support each milestone?

For example:

For Competency 1.3 - *Creates and adjusts a treatment plan based on available evidence.*
Pre-Novice 1: *Describes the physiologic basis and indications for planning treatments* - You might consider that in order to describe the physiologic basis for treatments, students need to understand the core concepts of pharmacology; normal physiology of the major body systems; modes of action of commonly used drug classes.

Pre-Novice 2: *Evaluates simulated case scenario information, designs and justifies a basic treatment plan* - You might decide at this stage students need to know example drugs within commonly used drug classes. They should be able to choose an appropriate treatment for uncomplicated, commonly encountered conditions. They should be able to locate and interpret prescribing information for the chosen drug. They should be able to make accurate dose calculations.

Please capture your thoughts and comments using the Workshop Padlet, which can be accessed here: [Workshop Padlet](#)
Password: 2Eu0oUor

Session 2

In this session the aim is to identify prescribing-specific EPAs and milestones for CBVE-competencies 3.1; 5.1; 5.2 and 5.3.

Break out groups will each work on one of these 4 competencies and identify prescribing-related activities for each of the milestone stages: 'Pre-Novice 1'; 'Pre-Novice 2'; 'Novice'; 'Advanced Beginner'; 'Competent' and 'Proficient' milestones.

The questions to ask yourselves will be similar to those in Session 1.

For example:

For Competency 5.3 - *Prepares documentation/forms appropriate for the intended audience*
Novice: *Records relevant information inconsistently (e.g., poorly organized, illegible, incomplete, irrelevant, or late) for clinical cases* - You might consider that in order to record relevant information students need to know commonly used prescribing notation and how to write a prescription. They should be aware of labelling requirements.

Session 3

In this session the aim is to identify prescribing-specific EPAs and milestones for CBVE-competencies 7.1; 8.2; 9.1 and 9.2.

Break out groups will each work on one of these 4 competencies and identify prescribing-related activities for each of the milestone stages: 'Pre-Novice 1'; 'Pre-Novice 2'; 'Novice'; 'Advanced Beginner'; 'Competent' and 'Proficient' milestones.

The questions to ask yourselves will be similar to those in Session 1.

For example:

For Competency 8.2 - *Delivers veterinary services compliant with legal and regulatory requirements*
Advance Beginner: *Explains regulatory standards for veterinary practice but may struggle to apply.* - You might consider that in order to explain the standards the student needs to be aware of relevant medicines regulations and national drug regulatory agencies. They should have an understanding of the drug development process. They are aware of local law related to storage and record keeping of controlled drugs.

PUBLICATION

The organiser is required to publish summary results from this workshop on the University of Surrey Institute of Advanced Studies' website as a condition of the grant funding this workshop. The organizer also plans to disseminate results elsewhere (e.g. at conferences and in educational and/or scientific journals). All outputs will be anonymised. Please contact the organiser if you have any questions regarding this.

ACKNOWLEDGMENTS

I should like to thank Professors Virginia Fajt and Arno Werners for their input into the design of this workshop.

I should also like to thank the Institute of Advanced Studies (IAS) at University of Surrey for sponsoring this meeting and Louise Jones (IAS) for her administrative support.



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