



EDUCATION **EURO
SPINE**

EduWeek 2024

24-26 JUNE | STRASBOURG, FRANCE

**Basic Module 6:
Using Literature to Inform my Practice**

General Information

EUROSPINE, the Spine Society of Europe

c/o Pfister Treuhand AG

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EduWeek 2024 Overview

AUTUMN 2023	APRIL-JUNE 2024	24-26 JUNE 2024
<p>REGISTRATIONS OPEN</p> <ul style="list-style-type: none"> Registrations open in early October 2023 Exact date announced on the EUROSPINE website, through newsletters and social media Participants can now register and save their place for Basic and Advanced modules Further details and preliminary programmes are shared on the EUROSPINE website 	<p>PART 1 - E-LEARNING</p> <ul style="list-style-type: none"> Enrolment of participants to the EUROSPINE Learning Management System (LMS) by the Education team Self-paced completion of the modules by participants Assessment: MCQs that must be passed with a minimum of 70% + CME evaluation Mode of study: online/distance learning through the LMS NO physical presence required 	<p>PART 2 - LIVE SESSIONS</p> <ul style="list-style-type: none"> Live sessions take place at IRCAD in Strasbourg/France Live sessions include, lectures, case based discussions, workshops, group work (and CadLabs/ SkillsLabs for designated modules) Participants arrange their own travel/ accommodation to/ in Strasbourg, France to take part in the modules Mode of study: in person Physical presence required

Quick Facts

LIVE SESSION DATE & TIME	24 June 2024 (08:00-12:30 CEST)
VENUE	IRCAD, 1 Place de l'Hôpital, 67000 Strasbourg, FRANCE
MAX. ATTENDEES	40 delegates
REGISTRATON FEES	EUROSPINE Member: €200 Non-member: €300
CME CREDITS	EACCME accreditation is currently pending.
LANGUAGE	English
DRESS CODE	Smart casual
E-LEARNING	<p>A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content.</p> <p>In preparation for the live session, the mandatory self-paced e-learning component and additional pre-learning material will be shared. The e-learning component will be available from 1 April 2024 on the EUROSPINE Learning Management System (LMS). <u>This component must be completed before the live session.</u></p>
MODULE COMPLETION	<p>A module is only deemed as complete when participants have met ALL of the following conditions:</p> <ul style="list-style-type: none"> • Passed the e-learning component of the module AND • Attended the live session AND • Submitted course evaluations for the e-learning and the live session component
TARGET AUDIENCE	Senior trainees and trained surgeons, as well as other healthcare professionals in Europe in order of availability and access: primary care physicians, physiotherapists, chiropractors, osteopaths, naprapaths and others who are graduated as clinicians from a recognised institution (i.e., professional school or university). At least two years of clinical experience is recommended but all new graduates are encouraged to register.
IMPORTANT (!)	<ul style="list-style-type: none"> • Completion of e-learning module is mandatory • Attendance of the live session is mandatory

PART 1 - E-Learning Programme

(available from 1 April 2024)

Time/ Duration	Topic	Faculty
Introduction		
01:07	Introduction to critical appraisal	Eva Skillgate
00:20	Knowledge check questions	
Randomised Control Trials		
01:05	The architecture of RCTs	Eva Skillgate
00:48	Critical appraisal of a cohort study: the fundamentals	Pierre Côté
00:20	Knowledge check questions	

PART 2 - Live Session Programme

Monday, 24 June 2024

Time	Topic	Faculty
08:00 – 08:10	Welcome and introduction	All
08:10 – 08:30	Workshop 1: Presenting clinical cases and polling participants with their treatment recommendation	Munting
08:30 – 08:50	Lecture presentation: Systematic Literature Review	Wong
Randomised controlled trials		
08:50 – 09:20	Workshop 2: Critical appraisal of parts of a randomised controlled trial (article 1, related to cases)	Skillgate
Break 09:20 – 09:35 (15 mins)		
09:35–10:10	Workshop 3: Critical appraisal of parts of a randomised controlled trial (article 1, related to cases)	Skillgate
Cohort and Prognostic studies		

10:10 – 10:40	Workshop 4: Critical appraisal of parts of a cohort study (article 2, related to cases)	Côté
10:40 – 11:35	Workshop 5: Critical appraisal of parts of a cohort study (article 2, related to cases)	Côté
Break 11:35 – 11:45 (10 mins)		
11:45 – 12:15	Workshop 6: applicability of study results to initial cases, polling of students, and feedback	All
12:15 – 12:30	Wrap up, closing remarks	Skillgate
12:30	End of module	

Aims of the Module

This course will provide participants with the necessary skills to critically appraise the quality of the spine literature. Specifically, the course will introduce basic study designs and discuss the main threats to the validity of clinical studies.

Learning methods include didactic lectures and workshops. Recently published papers will be used in the workshops. The topics covered in the course include: the importance of research to inform practice, randomised clinical trials and cohort studies.

Participants will learn to use a critical appraisal tool to assess the quality of randomised control trials and cohort/prognostic studies.

Learning Outcomes

This module aims to enable learners to:

General outcomes and objectives

- Evaluate the quality of randomised clinical trials (RCTs);
- Evaluate the quality of cohort/prognostic studies;
- Understand the place of critical appraisal in a clinical practice that includes published evidence and patients' perspectives.
- Judge whether to change their practice based on new evidence.

Specific outcomes and objectives for different sessions

Introduction to critical appraisal

- Understand the place of critical appraisal in clinical practice that includes published evidence and patients' perspectives;
- Identify the research question and study objective in a published article;

- Understand the notions of statistical significance and clinical importance of study results;
- Judge when to change their practice based on new evidence.

The architecture of RCTs: What clinicians need to know to determine the quality of an RCT

- Understand the basic design of an RCT;
- Understand key issues to address when critically appraising a randomised controlled trial: selection issues, randomisation, measurement of key outcomes, comparability of groups, data analysis.

The architecture of cohort/prognostic studies: What clinicians need to know to determine the quality of a cohort/prognostic study

- Understand the basic structure of cohort/prognostic studies;
- Understand the role of data registry in the conduct of cohort/prognostic studies;
- Understand key issues to address when critically appraising a cohort/prognostic study: selection of participants, measurement of exposures and outcomes, control for confounders and interpretation of results.

Critical appraisal of an RCT

- Critically appraise a published randomised controlled trial using a standardized critical appraisal tool and identify the main threats to its validity;
- Discuss the validity of a published randomised clinical trial;
- Discuss the relevance of results of a published randomised clinical trial.

Systematic literature review

- Critically appraise a published cohort/prognostic study using a standardized critical appraisal tool and identify the main threats to its validity;
- Discuss the validity of a published cohort/prognostic study;
- Discuss the relevance of results of a cohort/prognostic study to clinical practice.

Instructional Methods

The following instructional methods will be employed in the teaching of this module

- Pre-learning activities: Preparatory readings;
- Classroom teaching: Interactive lectures that extend from theory to case-studies;
- Workshops: Facilitated group discussions and practical workshops.

All instructional methods should require active participation, consistent with the range of motivations for pursuing the EDISC programme. There should also be a strong emphasis on self-directed learning and pre-reading.

E-Learning

Introduction to critical appraisal

- Lecture: This session will introduce learners to the importance of critically reading the clinical literature and introduce the basic principles necessary to evaluate the quality of RCTs and clinical practice guidelines.

The architecture of RCTs: What clinicians need to know to determine the quality of a RCT.

- Lecture: The session will provide basic knowledge of the methodological design of RCTs
- Activity: The instructor will facilitate the evaluation of a RCT with the class by using a critical appraisal tool

The architecture of cohort/prognostic studies:

What clinicians need to know to determine the quality of a cohort/ prognostic study.

- Lecture: The session will provide basic knowledge of the methodological design of a cohort/prognostic study.
- Activity: The instructor will facilitate the evaluation of a cohort/prognostic study with the class by using a critical appraisal tool.

Live Session

Workshop 1: Clinical case presentation

- Activity: Faculty presents a clinical cases and participants gives their treatment recommendation - all together.

Workshop 2 & 3: Critical appraisal of an RCT

- Activity: In small groups, learners will work together to evaluate a RCT using the CEBM tool. The instructors will serve as methodological experts to guide the small group interactions. The critical appraisal session will be followed by a consensus discussion that will involve all learners.

Workshop 4 & 5: Critical appraisal of a cohort and prognostic study

- Activity: In small groups, learners will work together to evaluate a cohort/prognostic study using the CEBM tool. The instructors will serve as methodological experts to guide the small group interactions. The critical appraisal session will be followed by a consensus discussion that will involve all learners.

Workshop 6: Clinical case discussion

- Activity: Participants discuss applicability of study results to initial case. Polling, and feedback

Assignment

Participants will be provided with two articles, reporting a RCT and cohort study; they will have to fill the corresponding grid (either CASP or CEBM). Model abstracts will be provided shortly after the deadline for submission. Participants are then encouraged to self-evaluate.

Course Evaluation by the Participants

In line with EACCME's requirements for accredited activities, participants will be requested to complete a mandatory course evaluation at the end of the module in the form of a short online survey. Responding to the survey is a condition for participants to obtain their CME certificates.

List of Resources

Pre-course reading:

- i. Greenhalgh T. Of lamp posts, keys, and fabled drunkards: A perspectival tale of 4 guidelines. *J Eval Clin Pract.* 2018;24(5):1132-8.

Other Resources

- i. McCulloch P, Altman DG, Campbell WB, Flum DR, Glasziou P, Marshall JC, Nicholl J, the Balliol Collaboration. No surgical innovation without evaluation: the IDEAL recommendations. *Lancet.* 2009(374):1105-112.
- ii. 11 questions to help you make sense of a trial. Downloaded from Critical Appraisal Skills Programme. Oxford UK. www.casp-uk.net.
- iii. 12 questions to help you make sense of cohort study. Downloaded from Critical Appraisal Skills Programme. Oxford UK. www.casp-uk.net
- iv. Critical appraisal of prognostic studies. Downloaded from Centre of Evidence-Based Medicine. Oxford UK. www.cebm.net