

# Pre-conference Research course

Wednesday April 18

## How to conduct systematic reviews: Preparing to contribute to future SOSORT guidelines updates and to inform your practice.

Participants should bring a laptop to work during the interactive portion of the presentations and answer online quiz questions requiring audience participation.

Time	Topic	Description
08:00-08:05 Eric Parent	<b>OPENING REMARKS</b>	As SOSORT moves towards a standardized process to update the societies care guidelines, this pre-course aims to build capacity for SOSORT members to engage in the systematic review process which will support guidelines development going forward.
8:05-8:25 Stefano Negrini	<b>Introduction to Cochrane and the Cochrane Rehabilitation</b>	This presentation will introduce to the world of Cochrane, present Cochrane reviews published to date with relevance to Scoliosis care, define why Cochrane reviews are the actual gold standard and their strenghts (and limits) and argue how Cochrane methodology can come to support SOSORT guidelines development in the future.
8:25-9:00 Eric Parent	<b>Efficient searching of the literature</b>	With emphasis on searching for evidence on the effect of treatment, participants will learn to conduct searches of the literature using Boolean operators, free-text and keywords using the PICOS framework to plan searches.
9:00-9:45 Josette Bettany-Saltikov	<b>An Introduction to Writing a Systematic Review: A step by step Practical workshop</b>	This will cover selection and formulation of a research question, differences between different types of reviews, structuring the introduction /background, outlining review selection criteria, describing the article selection process, data extraction and analysis, structuring the result presentation and conclusions.
9:45-10:30 Eric Parent	<b>Critical Appraisal</b>	We will consider all the information useful to appraise and review an intervention research study including: examining recruitment strategies, evaluations and treatment descriptions; how to select statistical tests; and how to interpret statistical and clinical significance of the results; and how to determine if results are generalizable to your setting.
<b>Break 10:30-10:45</b>		
10:45-11:30 Josette Bettany-Saltikov	<b>How to write for publication</b>	In this interactive session, participants will be introduced to brainstorming strategies to identify a topic and target journal, as well as to a workflow strategy to prepare an article for publication. Reporting standards for common types of papers will be introduced. Structuring the paper into different sections will be presented. Developing a writing plan and schedule will also be discussed.
11:30-12:15 Patrick Knott	<b>BASIC statistics</b>	The focus will be on how to choose tests and on interpreting tests for differences between groups in response to treatment and for the study of associations between variables.
12:15-12:30 Sabrina Donzelli	<b>Interpreting results from Systematic Reviews and Meta-analyses</b>	The focus will be on how to draw conclusions from systematic reviews and meta-analyses including interpreting forest plots, judging homogeneity and formulating evidence synthesis statements.