

Dear Colleagues,

We look forward to meeting you in Lyon in a few days. The 2017 SOSORT Research Course has been planned to ensure active participation from the audience. We will be using online voting tools during our discussions on appraising the quality and planning good research related to RCT, prospective observational and cross-sectional studies.

Please find attached the program of the course which is scheduled during the Saturday afternoon (13:30 to 17:15).

Please find also a document listing reference materials and links to study examples which will be discussed. Please read / glance through the 2 articles suggested of each type which will be used in the discussions. At the end of this invitation document you will also find reference to the appraisal tools which we will learn to use during the course.

Please come prepared to participate actively in our discussions.

Finally, SOSORT members participating in the research course can solicit a research consultation to explore the planning of a research study with the course organizers (we may offer additional consultant depending on the response.) To take advantage of this opportunity please contact Dr Eric Parent at <mailto:eparent@ualberta.ca> suggesting a time to meet during the conference which does not interfere with the proposed programming (EG. lunches, evening...). Please include a short summary of your research idea to help us best direct your consultation request.

Looking forward to meeting you soon and wishing you safe travels.

Eric.

Eric Parent, P.T., M.Sc., Ph.D.
Associate Professor Dept. of Physical Therapy
(Mailing address)
2-50 Corbett Hall
Edmonton, AB.
T6G 2G4

Office: 780 492 8889

Fax: 780 492 4429

RESEARCH COURSE 2017 Program

The course will consist of three practical workshops, participants will discuss with the lecturer, how to adequately assess the quality of the reporting and the design for three different types of research projects: randomized controlled trial, cross-sectional / retrospective study of intervention effects, and prospective prognostic study. Participants will be asked to comment and participate in the interactive discussions related to the main threats faced by researchers during the development of research projects using such designs in the scoliosis field. **To promote more interactions, we propose that participants read articles provided as examples for each of the types of research to be discussed prior to the course and background material to guide appraisal discussions (See links distributed).** We will refer to sections of these papers and ask your opinions about their quality as we practice quality appraisal and ask your opinions on how you would design such a study. The interactive sessions will make use of online voting tools

participants are encouraged to bring a laptop computer preferably (alternatively tablets and phone may allow online voting).

13:30-13:35	WELCOMING REMARKS TO THE RESEARCH COURSE: Eric Parent
	Randomized controlled trial / Exercise trials as an discussion example MODERATOR: Eric Parent
13:35-13:45	Overview: <i>Pyramid of Evidence, rationale for clinical trials, research quality and reporting (CONSORT) appraisal templates.</i>
13:45-14:00	A summary of standardized recommendations related to exercises research Scoliosis . 2015 Mar 7;10:8. doi: 10.1186/s13013-014-0025-4. eCollection 2015. Recommendations for research studies on treatment of idiopathic scoliosis: Consensus 2014 between SOSORT and SRS non-operative management committee. https://scoliosisjournal.biomedcentral.com/articles/10.1186/s13013-014-0025-4
14:00 - 15:00	Risk of bias appraisal and completion of CONSORT Checklist for the exercise RCTs examples Monticone M, Ambrosini E, Cazzaniga D, Rocca B, Ferrante S. Active self-correction and task-oriented exercises reduce spinal deformity and improve quality of life in subjects with mild adolescent idiopathic scoliosis. Results of a randomised controlled trial. Eur Spine J. 2014 Jun;23(6):1204-14. doi: 10.1007/s00586-014-3241-y. Epub 2014 Feb 28. Sanja Schreiber, Eric C. Parent, Elham Khodayari Moez, Douglas M. Hedden, Douglas L. Hill, Marc Moreau, Edmond Lou, Elise M. Watkins, Sarah C. Southon. Schroth Physiotherapeutic Scoliosis-Specific Exercises Added to the Standard of Care Lead to Better Cobb Angle Outcomes in Adolescents with Idiopathic Scoliosis – an Assessor and Statistician Blinded Randomized Controlled Trial PLoS One. 2016; 11(12): e0168746. Published online 2016 Dec 29. doi: 10.1371/journal.pone.0168746 And other selected passages.
15:00	COFFEE break
	Observational Prospective study example on exercises with adult with scoliosis MODERATOR: Patrick Knott
15:15-15:30	Attributes of a good prospective research study
15:30-16:00	Risk of bias appraisal for the 2-3 study examples Donzelli S1, Zaina F, Negrini S. In defense of adolescents: They really do use braces for the hours prescribed, if good help is provided. Results from a prospective everyday clinic cohort using thermobraces. Scoliosis. 2012 May 31;7(1):12. doi: 10.1186/1748-7161-7-12. Draus C, Moravec D, Kopiec A, Knott P. Comparison of Barefoot vs. Shod Gait on Spinal Dynamics Using DIERS Formetric 4D and DIERS Pedoscan Systems. Open Journal of Therapy and Rehabilitation, 2015, 3, 70-76 If time permits: Marti CL, Glassman SD, Knott PT, Carreon LY, Hresko MT. Scoliosis Research Society members attitudes towards physical therapy and physiotherapeutic scoliosis specific exercises for adolescent idiopathic scoliosis. Scoliosis. 2015 May 27;10:16. doi: 10.1186/s13013-015-0041-z. eCollection 2015.

	Cross-sectionnal study An example on exercises with adult with scoliosis MODERATOR: Sabrina Donzelli and Patrick Knott
16:00-17:00	<p>Attributes of a good prospective research study</p> <p>Risk of bias appraisal and completion of the STROBE Checklist for the Cross-sectional study examples</p> <p>Théroux J, Le May S, Hebert JJ, Labelle H. Back Pain Prevalence is Associated with Curve-type and Severity in Adolescents with Idiopathic Scoliosis: A Cross-sectional Study. Spine (Phila Pa 1976). 2016 Nov 18. [Epub ahead of print]</p> <p>Eyvazov K, Samartzis D, Cheung JP. The association of lumbar curve magnitude and spinal range of motion in adolescent idiopathic scoliosis: a cross-sectional study. BMC Musculoskelet Disord. 2017 Jan 31;18(1):51. doi: 10.1186/s12891-017-1423-6.</p>
17:00-17:15	Ethics considerations Eric Parent

* The exact timetable will vary according to participant in the interactive discussions.
Readings in preparation for the course will be distributed by email to participants registered before the course.