**Evidence-Based Medicine**

Practical Session 9: Appraisal

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**Objectives**

At the end of this session, the participants should be able to critically appraise a randomized controlled trial and an observational study in groups.

**Instructions**

1. Work in small groups.
2. Find two different clinical practice guidelines on the same topic. For example:
   1. Uncomplicated Bacterial Community-Acquired Urinary Tract Infection in Adults (<https://www.aerzteblatt.de/int/archive/article/195332/Clinical-practice-guideline-Uncomplicated-bacterial-community-acquired-urinary-tract-infection-in-adults-epidemiology-diagnosis-treatment-and-prevention>)
   2. Brennen beimWasserlassen (<https://www.degam.de/files/Inhalte/Leitlinien-Inhalte/Dokumente/DEGAM-S3-Leitlinien/053-001_Brennen%20beim%20Wasserlassen/053-001l_Brennen%20Wasserlassen_Langversion_29-08-18.pdf>)
3. Appraise the two guidelines using the AGREE II instrument.

Alternative groupwork:

**Instructions**

1. Randomized control trial
   1. Schmidt B, Davis P, Moddemann D, Ohlsson A, Roberts RS, Saigal S, Solimano A, Vincer M, Wright LL; Trial of Indomethacin Prophylaxis in Preterms Investigators. Long-term effects of indomethacin prophylaxis in extremely-low-birth-weight infants. N Engl J Med. 2001 Jun 28;344(26):1966-72. PubMed PMID: 11430325.

https://www.ncbi.nlm.nih.gov/pubmed/11430325

* 1. Discuss the different steps in the appraisal of a randomized controlled trial. The following pdf is useful in discussing finer points of the appraisal http://media.wix.com/ugd/dded87\_40b9ff0bf53840478331915a8ed8b2fb.pdf . This checklist can be used under common users license.

1. Observational trial
   1. Katayama Y, Enomoto M, Kikuchi S, Takei A, Ikegami H, Minami H, Lee YK. Transcutaneous bilirubin measurement during phototherapy in term neonates. Pediatr Int. 2017 Jan 24. doi: 10.1111/ped.13248. [Epub ahead of print] PubMed PMID: 28118513.

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Katayama+Y%2C+Enomoto+M%2C+Kikuchi+S%2C+Takei+A%2C+Ikegami+H%2C+Minami+H%2C+Lee+YK.+Transcutaneous+bilirubin+measurement+during+phototherapy+in+term+neonates+PMID%3A+28118513>

* 1. Discuss appraisal of an observational trial using casp check lists. http://docs.wixstatic.com/ugd/dded87\_63fb65dd4e0548e2bfd0a982295f839e.pdf and http://docs.wixstatic.com/ugd/dded87\_e37a4ab637fe46a0869f9f977dacf134.pdf. These checklists can be used under common users license.