

#### Data extraction

Lars Jørun Langøien

#### Researcher, MP

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# Agenda

- 10.00-10.45
- Short introduction to data extraction
  - Hands-on exercise in break-out groups
    - NRSGH 2020 Data extraction (Word document)
    - Usman 2011 (pdf document)
- Discussion and questions



# Steps in conducting a SR

- 1.Formulate the question
- 2. Define criteria for inclusion- and exclusion
- 3.Identify (locate) studies
- **4.Select studies**
- 5.Assess methodological quality of studies (bias)
- 6.Extract data
- 7. Analyse data
- 8.GRADE
- 9.Present and interpret results



The importance of using data extraction sheets (whether paper or software)

• The sheet is directly linked to the review's questions and inclusion- and exclusion criteria

 The sheet is a list of all decisions, and changed decisions, that are taken in the course of the data extraction process



## Check list for data extraction sheet

- Source
- Eligibility
- Methods
- Participants
- Intervention(s)
- Outcomes
- Results
- Other issues of interest

### Data extraction sheet design

- What is the optimal amount of data to extract?
- Formalities: title, version
- Room for comments at the beginning
- Decision regarding inclusion/exclusion at the beginning
- Record the source of each piece of information, e.g. mark in full text publication
- Use «tick-box» or codes to save time
- Use «Not reported» and «Unclear» together with «Yes» and «No»
- Make sufficient room for notes
- Give detailed instructions

## Implementation

- Strong recommendations that two persons extract data
  - Independent extraction
  - One person extracts data, another person checks the extraction against the full text publication
- Important to pilot test sheets
- Several publications on the same study

   Different/same sheet?
- Document consensus
- Reliability

#### Data extraction exercise

- Apply the checklist for data extraction to the Usman 2011 study
- Discuss lists in your break-out group and validate the data extraction
- General discussion and questions

