

# Partner status for CRIC, Innovation Fond Denmark project, April 2016:

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## Short resume

(max 2 pages)

**Title:** Synthesizing results of RCTs

**Partner (name/institution):** Copenhagen Trial Unit

**Timeline (i.e. midt 2016 through end 2018):** 2015-2020

**Senior(s) (name):** Jørn Wetterslev

**PhD student(s) (name):** Marija Barbateskovic

### Program progression:

- Methodological analysis
- TSA
- Individual patient data meta-analysis
- Janus Christian Jakobsen
- PhD. student Marija Barbateskovic

The aim of Marija's project is to produce systematic reviews with meta-analysis and trial sequential analysis to assess the benefits and harms of important and frequently administered interventions to patients admitted to the intensive care unit.

The project is divided in four parts:

#### Project I) - Delirium in the critically ill patients

This project consists of two projects:

- a. An overview of systematic reviews on pharmacological prevention and management interventions for delirium in intensive care patients.

*Progress: Protocol (almost) finished, literature searches run, literature screening in progress*

- b. Based on the results of the overview of systematic reviews (and results of the AID-ICU cohort study), a systematic review will be conducted comparing two pharmacological interventions (probably haloperidol in one arm) for the management of delirium in ICU patients.

*Progress: Project start: ultimo May 2016*

Project II) - Effects of higher versus lower inspiratory oxygen fraction or arterial oxygenation in critically ill patients

The aim of this project is to do a systematic review investigating the effects of higher versus lower respiratory oxygen fraction or arterial oxygenation in critically ill patients. The results of the systematic review will be used to design HOT-ICU.

*Progress: Title has been registered with Cochrane Anaesthesia, Critical and Emergency Care, first draft protocol has been submitted to editorial evaluation, literature searches run, literature screening in progress.*

Project III) - Stress ulcer prophylaxis in critically ill patients

The aim of this project is to update a systematic review (Kragh 2014) comparing stress ulcer prophylaxis to placebo, possibly including results from SUP-ICU.

*Progress: Project to start primo 2018.*

Project IV) - Clinical heterogeneity vs statistical heterogeneity in critically ill patients

The aim of this project is to investigate clinical heterogeneity versus statistical heterogeneity in critically ill patients. We will construct a score for clinical heterogeneity in a meta-analysis and it will be validated for inter-observer variability.

*Progress: Project to start primo to medio 2017.*

**Deviations from the planned program and their consequences:**

**Financial challenges:**