

Profylaktisk coiling efter blødende ulcus

Dennis Zetner, ph.d.
HU-læge i radiologi
Nordsjællands Hospital



Program

- Teorien bag
- Retrospektivt kohortestudie fra Rigshospitalet
- Cochrane-review
- Protokol for kommende RCT

Teorien bag profylaktisk coiling

Hvorfor?

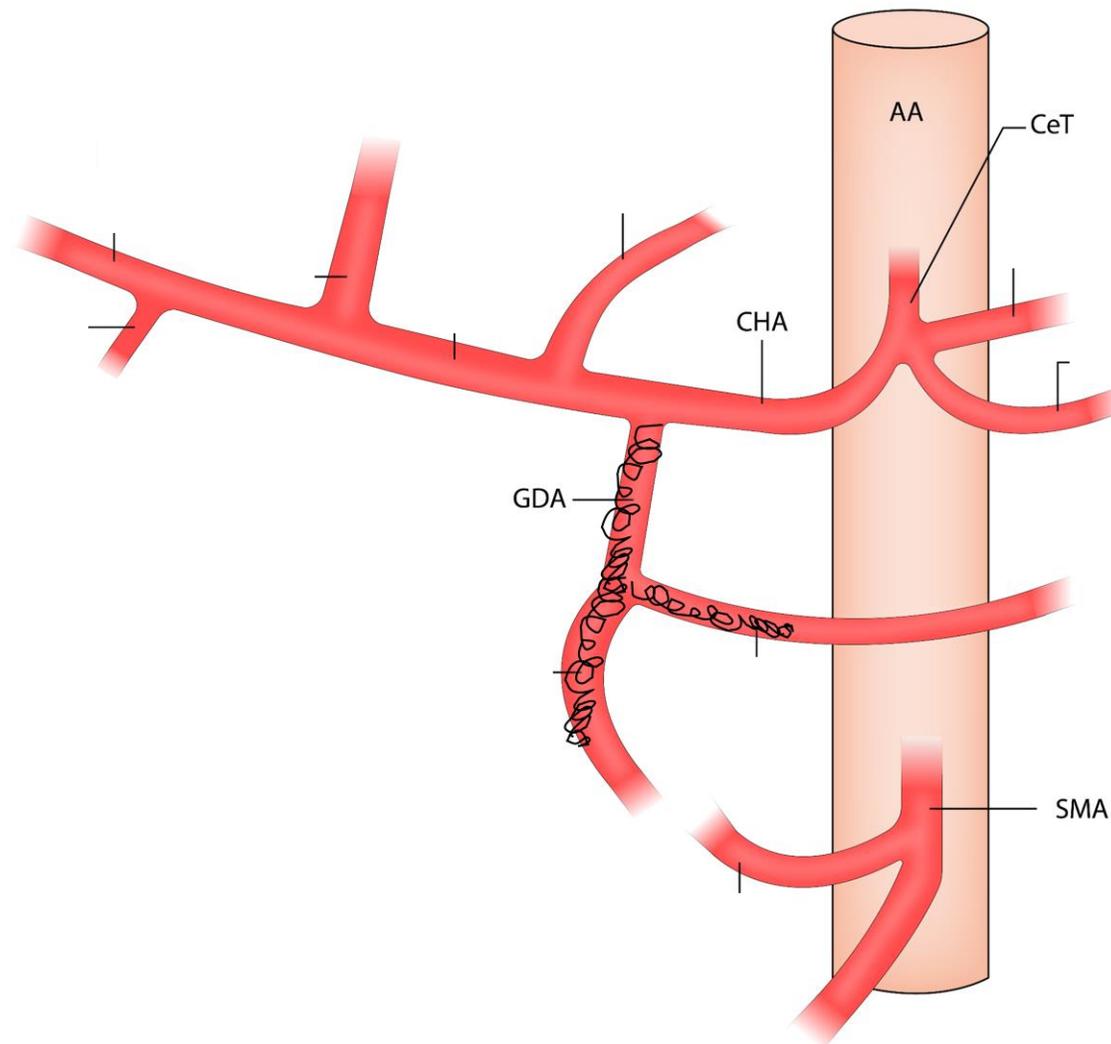
- Dødelighed
- Reblødning
- Incidens





Hvordan?

- Transport til IR-center
- Adgang
 - A. femoralis
- Afhænger af angiografi
 - Aktiv ekstravasation
 - Ingen pågående blødning





Hvem?

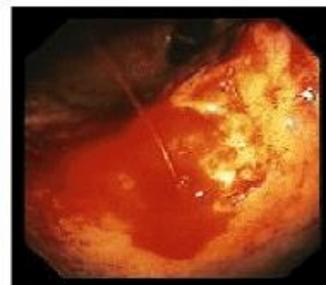
- DSGH
- Guidelines på afdelingsniveau
- Evidensen?





Lidt om ulcera

- Forrest klassifikation



Forrest Ia
Arterial spurting



Forrest Ib
Oozing from ulcer base



Forrest IIa
Visible vessel



Forrest IIb
Adherent clot



Forrest IIc
Black spots



Forrest III
Clean ulcer base

Retrospektiv kohorte



Retrospektiv kohorte

Surgical Endoscopy

<https://doi.org/10.1007/s00464-024-10709-x>



Risk factors for rebleeding and mortality following prophylactic transarterial embolization for patients with high-risk peptic ulcer bleeding: a single-center retrospective cohort study

Dennis Zetner¹  · Ida Roost Rasmussen² · Camilla Palmquist Frykman³ · Lasse Rehné Jensen⁴ · Ruben Juul Jensen⁵ · Emma Possfelt-Møller⁴ · Mikkel Taudorf^{5,6} · Luit Penninga^{4,6}

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Metode

- Journalopslag
- 2016-2021
- Outcomes
 - Reblødning
 - 30-dages mortalitet





Resultater

- **176 patienter**
- **Reblødning: 44 (25%)**
- **30-dages mortalitet: 26 (15%)**

• **Forrest classification**

- **Ia = 51 (29%)**
- **Ib = 58 (33%)**
- **IIa = 21 (12%)**
- **IIb = 24 (14%)**
- **IIc = 8 (5%)**
- **III = 7 (4%)**



Resultater

	Reblødning: Ja	Reblødning: Nej	
Død: Ja	15	11	26
Død: Nej	29	121	150
	44	132	

χ^2 : $p < 0.001$

- Ikke-standard coiling
- Flere gastroskopier
- Rockall score



Styrker og svagheder

- **Nær komplet follow-up**
- **Adgang til DSA-billeder**

- **Retrospektiv opgørelse**
- **Selektionsbias**
- **Begrænset hvad man kan udlede**



Konklusion

- Høj reblødningsrate
- Høj selektionsbias
- Høj Forrest klassifikation
- Standard embolisering vs. målrettet?

Cochrane Review



Cochrane review



Cochrane Central Editorial Service

Dennis Zetner ▾

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Action 		Manuscript Number ▲	Title ▲	Initial Date Submitted ▲	Status Date ▲	Current Status ▲
Action Links		COCHRANEEMD-2024-00098	Prophylactic arterial embolization in patients with bleeding peptic ulcers following endoscopic control of bleeding	26 Jan 2024	14 May 2024	Under Review

Forfattere: Dennis Zetner, Ida Roost, Jacob Rosenberg, Kristoffer Andresen



Metode

- **Cochrane Handbook**
- **Protokol publiceret 2022**





Metode

PICOS

- **Population:** patienter med blødende ulcus
- **Intervention:** profylaktisk embolisering
- **Comparison:** kontrol eller sham
- **Outcomes:** reblødning indenfor 30 dage
- **Study design:** randomiserede kontrollerede forsøg





Resultater

- Screening:
 - Titel og abstract

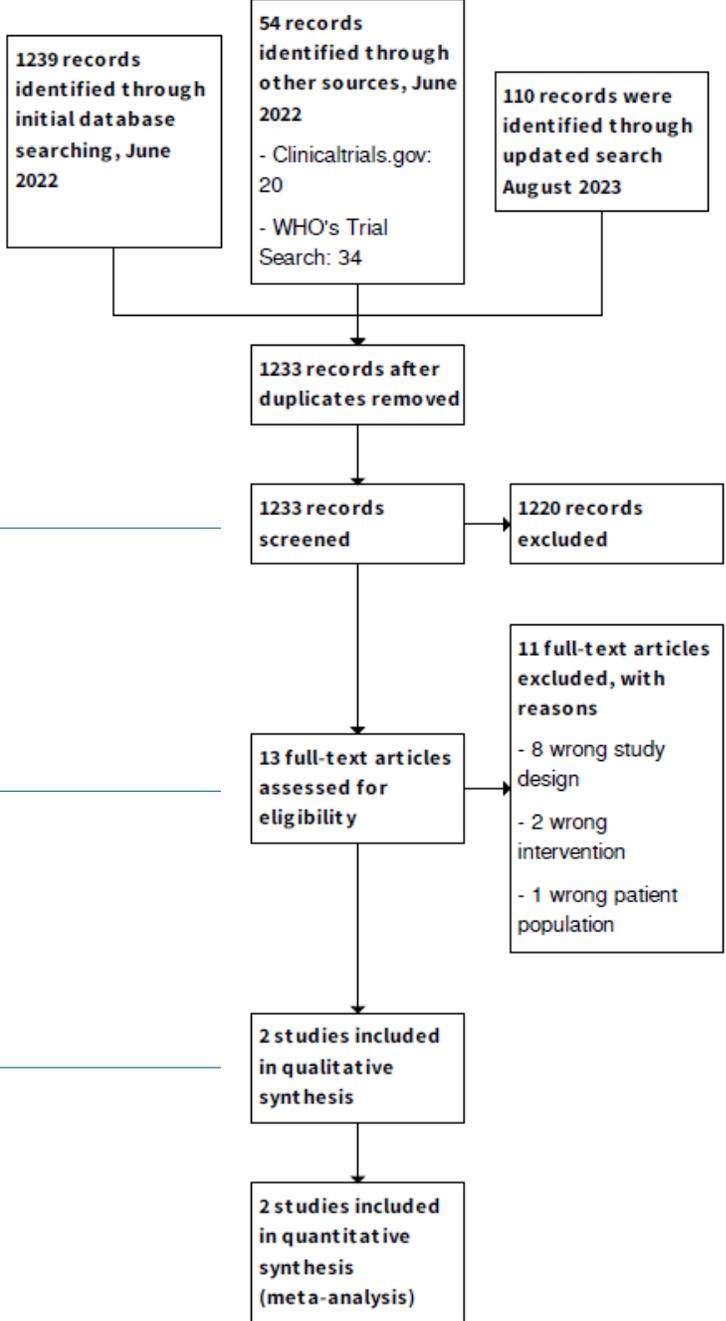
- Full-texts

- Inkluderet

1,233

13

2





Resultater

- Laursen et al 2014

- $n = 105$

- Coiling = 49

- Kontrol = 56

- Forrest I-IIb

- <24 timer fra gastroskopi

- Lau et al 2019

- $n = 225$

- Coiling = 96

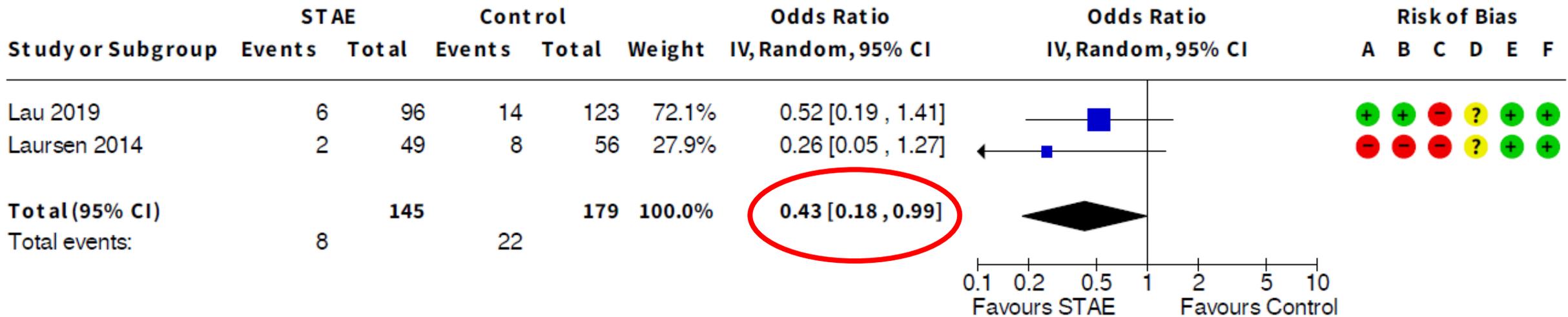
- Kontrol = 123

- Forrest I-IIa

- <12 timer fra gastroskopi

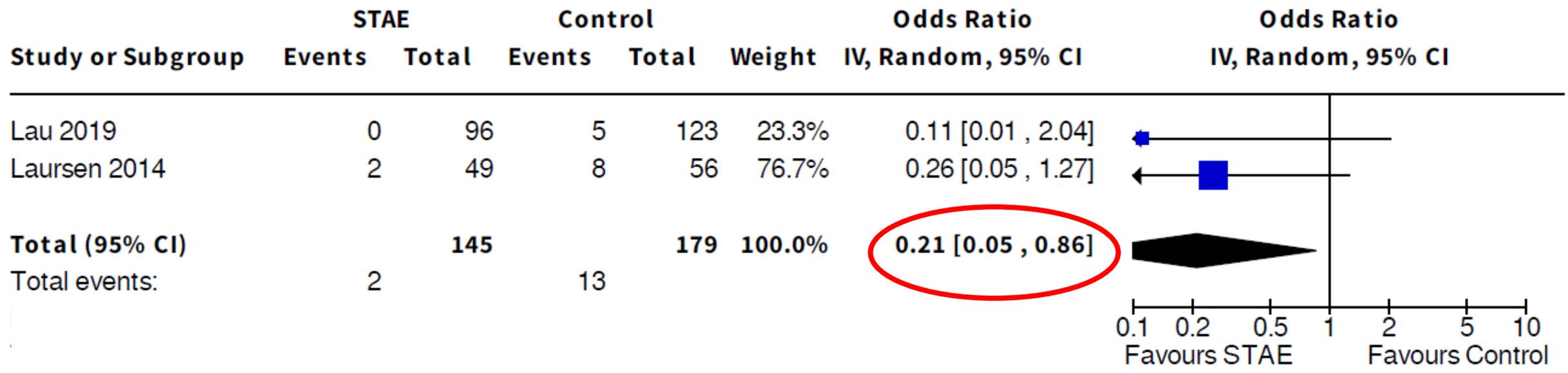


Reblødning



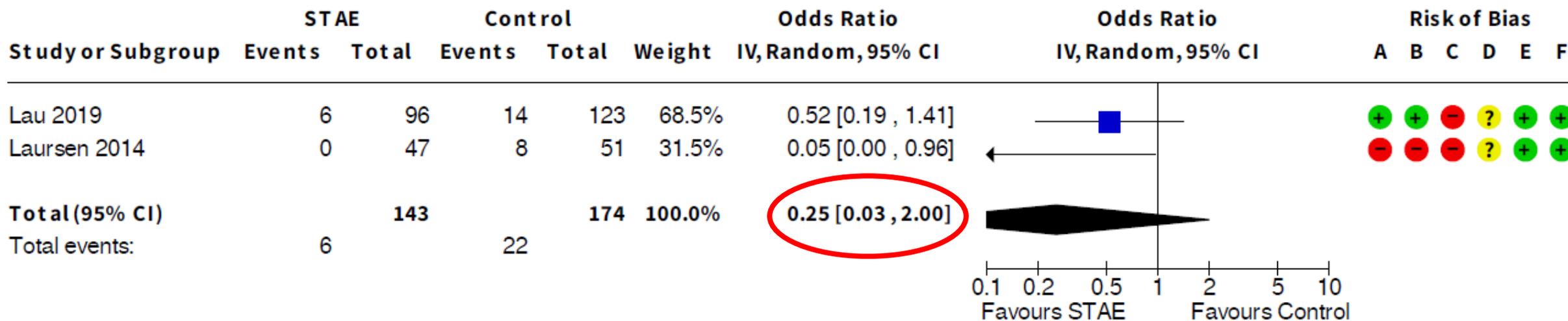


30-dages mortalitet





Reblødning – Subgruppe – Forrest I-IIa



Forrest IIb = 7 ptt



Konklusion

- **Nedsat reblødningsrisiko?**
- **Nedsat dødelighed?**
- **Bias**
- **Flere RCTer er nødvendige**

DAN-EMBO

Danish embolization study following peptic ulcer bleedings

DAN-EMBO

- Radiologisk Afdeling, Rigshospitalet
- Kirurgisk Afdeling, Rigshospitalet
- Copenhagen Trial Unit
- Gastromedicinsk Afdeling, OUH



Formål

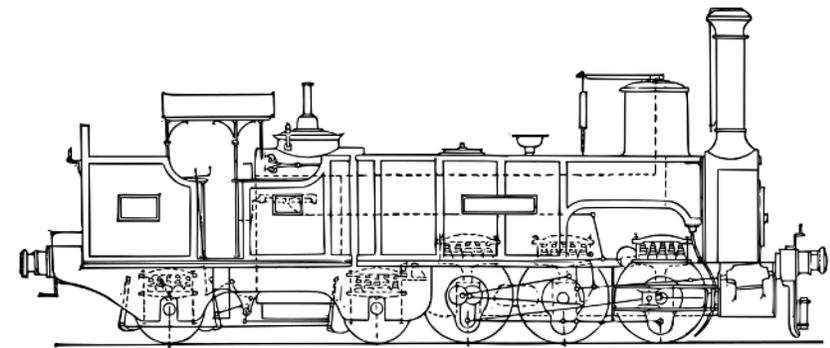
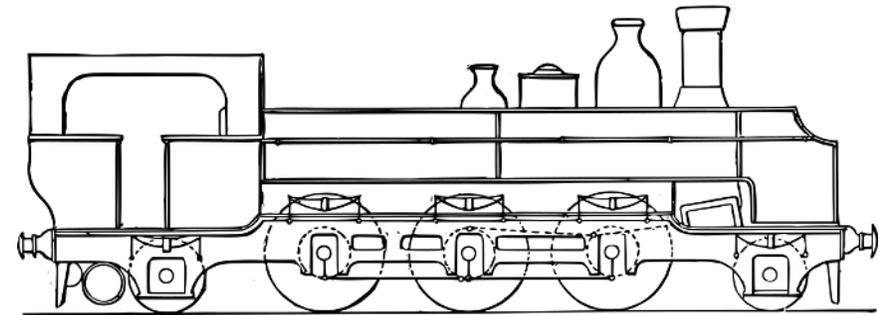
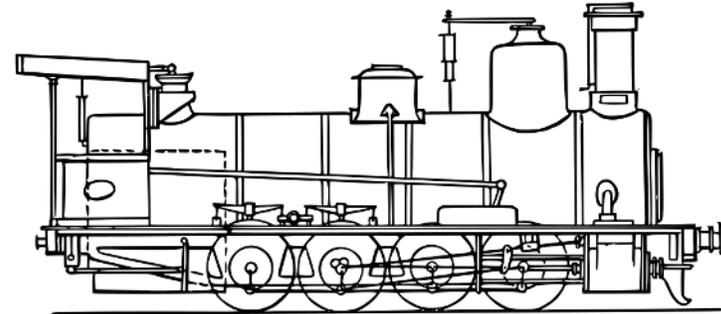
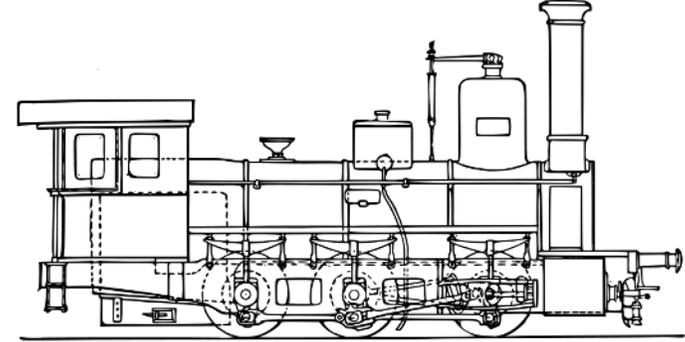
- Tilføje power
- Specificere "Hvem?"
- Adverse events
- Patientperspektiv





Design

- Multicenter RCT (Nationalt?)
- Blindet?
- Evt. sub-studie(r)?





Population

• Inklusion

- Blødende mavesår
 - Endoskopisk hæmostase <24 timer
- ≥ 18 år
- Informeret samtykke

• Eksklusion

- Tidligere embolisering
- Anafylaksi for kontrast
- eGFR <30
- Graviditet
- Aktiv blødning under DSA



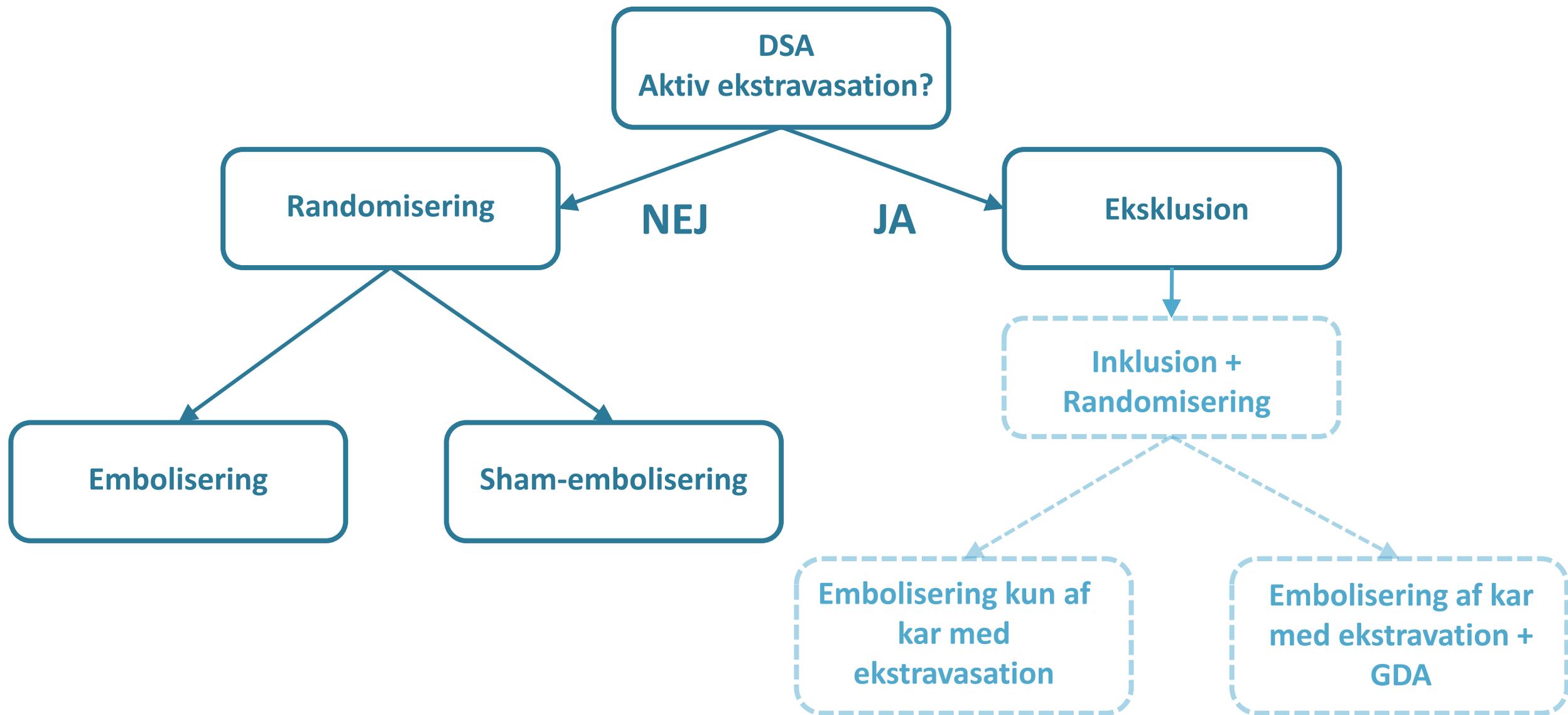
Intervention

- Inklusion efter gastroskopi
- (Arteriel abdominal CT)
- Transport til IR center
- Digital subtraktionsangiografi
- Eksklusion/Randomisering

- Intervention/Sham
- Transport til hjemhospital
- 30 dages follow-up i journal
- 90 dages follow-up i journal
- 120 dages PROM

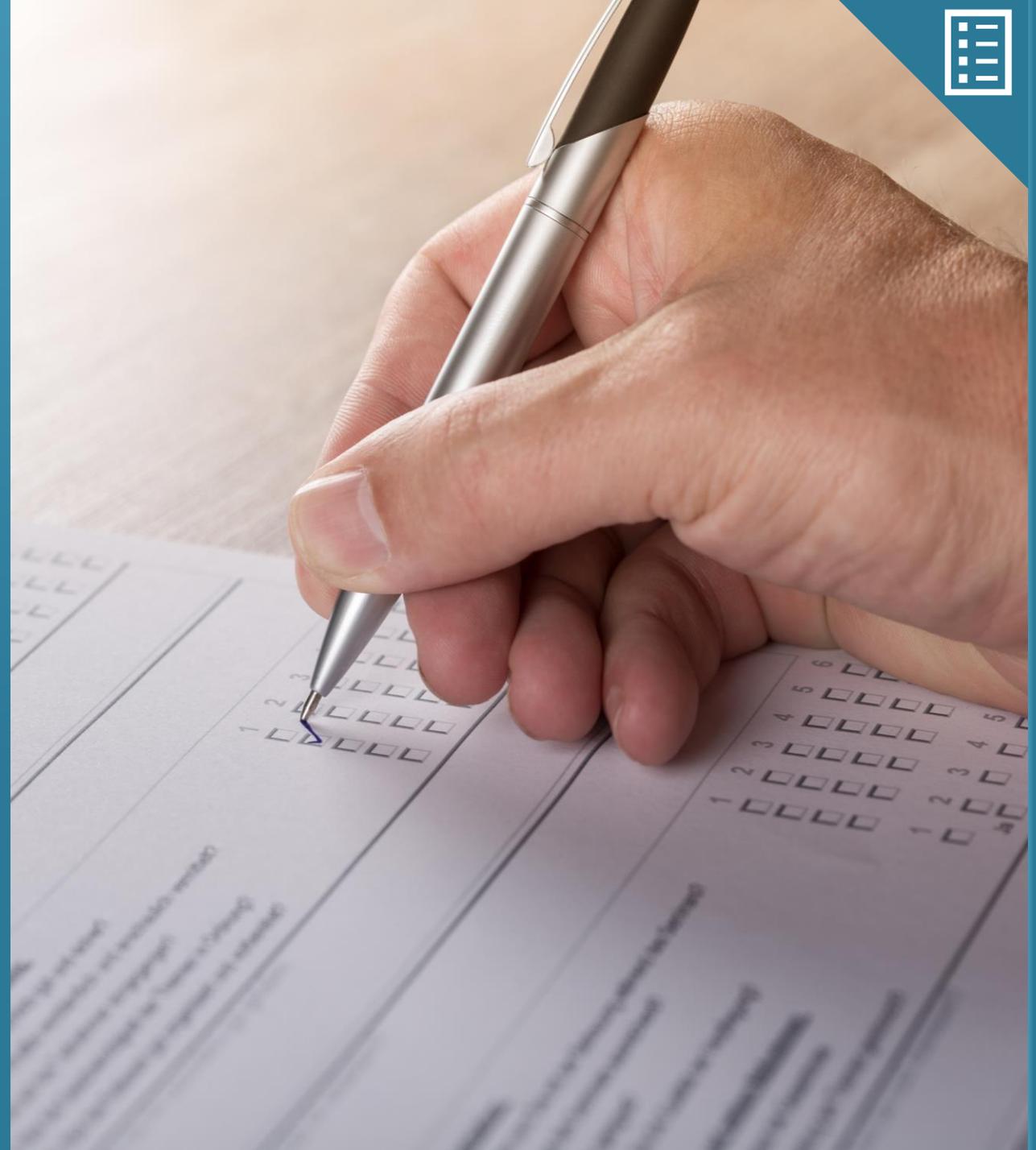


På stuen



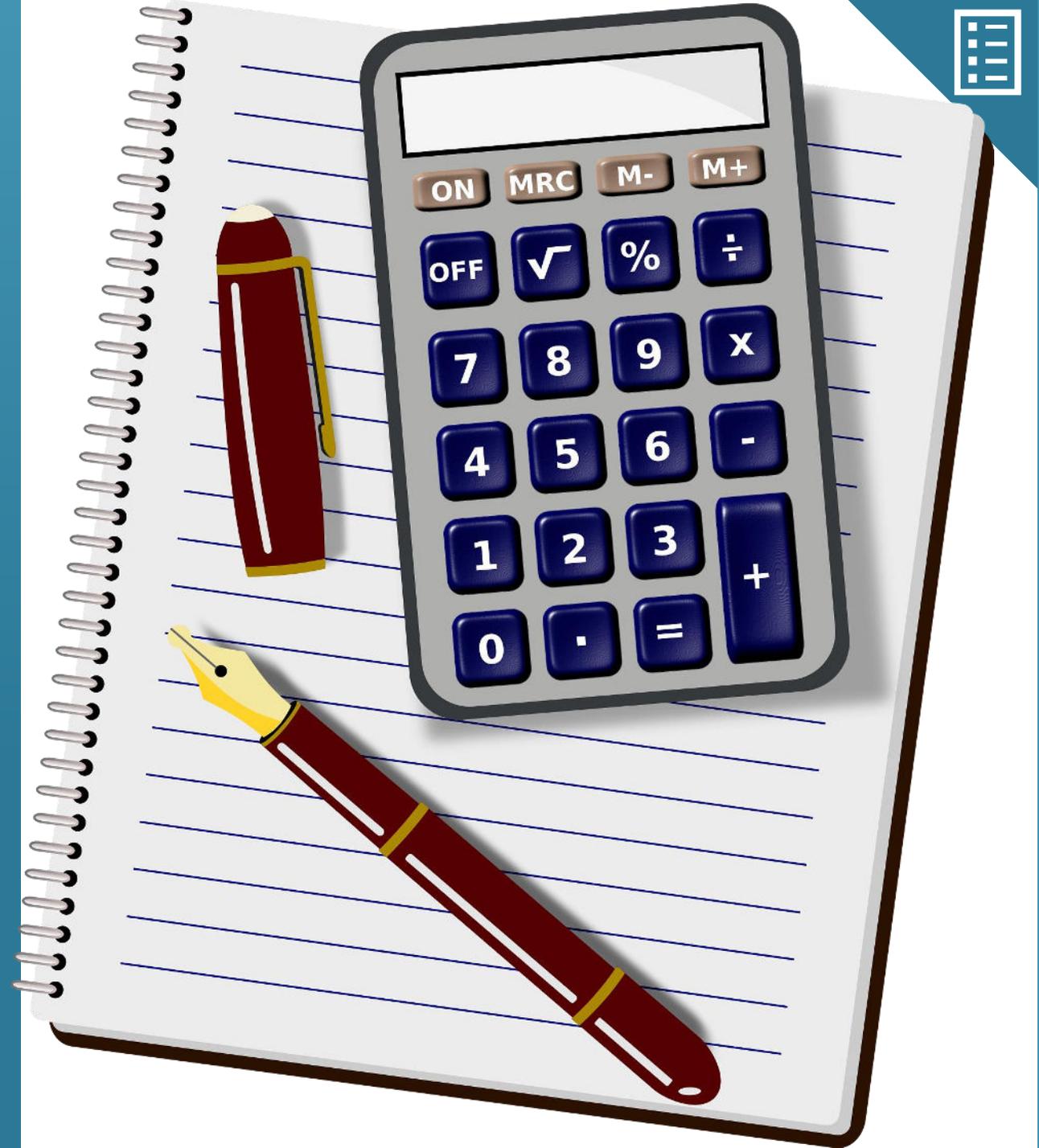
Outcomes

- Reblødning
- 30-dages mortalitet
- Livskvalitet
- Adverse events



Sample-size

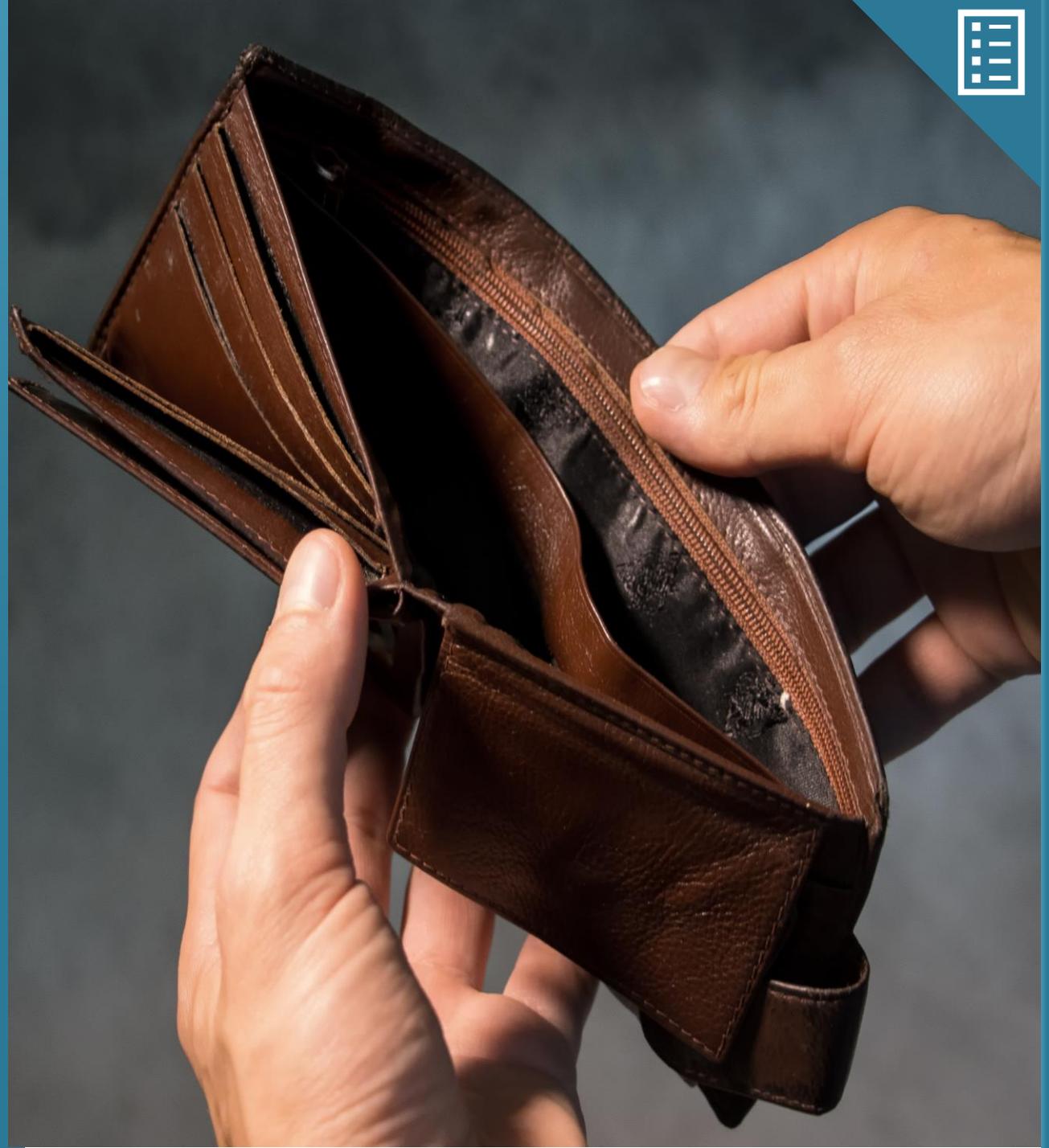
- Trial-sequential analysis
- Knapt 800 ptt
- Årlig incidens = 1000-1100





Status nu

- **Protokol**
- **Godkendelser**
- **Funding**
- **Samarbejdspartnere**





Spørgsmål?



Dennis Zetner
HU-læge, ph.d.
Radiologisk Afd.
Nordsjællands Hospital
Dennis.zetner@gmail.com