

Press release

Please fill in this form and return it to graduateschoolhealth@au.dk in Word format no later than three weeks prior to your defence.

Basic information

Name: Anne Karmisholt Grosen

Email: annegros@rm.dk Phone: 28865825

Department of: Clinical Medicine

Main supervisor: Christian Erikstrup

Title of dissertation: Optimising faeces donor screening and selection by establishing evidence-based donor criteria

Date for defence: 04.09.2024 at (time of day): 14:00 Place: Auditorium B (Entrance G, Room G206-142), Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

Press release (Danish)

Evidensbaserede kriterier for donation af fæces til fækal mikrobiota transplantation (FMT)

Fækal mikrobiota transplantation (FMT) er overførsel af tarmmikrobiota fra en rask donor til en patient. Valg af donor er afgørende for at sikre en sikker og muligvis også en effektiv behandling. Trods dette er kriterierne for fæcesdonation ikke evidensbaserede.

Formålet med forskningsprojektet var at skabe viden, som kan bidrage til etableringen af evidensbaserede kriterier for fæcesdonation. En række donorkriterier udforskes, heriblandt symptomer fra mavetarmkanalen og afføringsmønstre, asymptomatisk bærer tilstand med *Helicobacter pylori* og om faktorer hos donor kan påvirke den kliniske effekt af FMT hos patienter med *Clostridioides difficile* infektion.

Data fra en rask reference anvendes til at karakterisere almindelige symptomer fra mavetarmkanalen og almindelige afføringsmønstre hos raske voksne. Vi fandt ingen evidens for overførsel af *H. pylori* fra donorer til patienter ved FMT givet via orale kapsler. Projektet bidrager med ny viden om sammenhængen mellem donorfaktorer og den kliniske effekt af FMT, hvilket kan føre til optimeret donorselektion. Samlet set bidrager forskningsprojektet med vigtig viden om både sikkerheden og effekten af FMT, hvilket igen bidrager til etableringen af evidensbaserede donorkriterier.

Dette er et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Anne Karmisholt Grosen, der forsvarede afhandlingen d. 04/09-2024.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 04/09-2024 kl. 14:00 i Auditorium B (Indgang G, lokale G206-142), Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, Aarhus N. Titlen på projektet er "Optimising faeces donor screening and selection by establishing evidence-based donor criteria". Yderligere oplysninger: Ph.d.-studerende Anne Karmisholt Grosen, e-mail: annegros@rm.dk, tlf. 28865825.

Bedømmelsesudvalg:

Søren Jensen-Fangel, klinisk lektor, overlæge, ph.d.
Afdeling for infektionssygdomme, Aarhus Universitetshospital
Klinisk Medicin, Aarhus Universitet
Danmark

Elisabeth Mariko Terveer, MD, PhD
Department of Medical Microbiology, Leiden University Hospital
The Netherlands

Marie Helleberg, klinisk lektor, afdelingslæge, ph.d.
Afdeling for infektionssygdomme, Rigshospitalet
Klinisk Medicin, Københavns Universitet
Danmark

Press release (English)

Evidence-based criteria for donation of faeces for faecal microbiota transplantation (FMT)

Faecal microbiota transplantation (FMT) involves the transfer of intestinal microbiota from a healthy donor to a patient. The choice of donor is crucial to ensure a safe and possibly also effective treatment. Despite this, faeces donation criteria are not based on evidence.

The aim of this project was to produce knowledge that will contribute to establishing evidence-based criteria for faeces donation. A wide range of donor criteria are addressed, including gastrointestinal symptoms and bowel habits, asymptomatic *Helicobacter pylori* carriage, and an assessment of whether donor factors affect the clinical effect of FMT in patients with *Clostridioides difficile* infection.

Using data on a healthy reference, we describe common gastrointestinal symptoms and common bowel habits in healthy adults. We found no evidence of *H. pylori* transmission from donors to recipients by FMT administered via oral capsules. The project provides new insights into associations between donor factors and the clinical effect of FMT that may optimise donor selection. Altogether, the project contributes important insights into aspects of FMT safety and efficacy that contribute to establishing evidence-based donor criteria.

The project was carried out by Anne Karmisholt Grosen, who is defending her dissertation on 04/09-2024.

The defence is public and takes place on 04/09-2024 at 14:00 in Auditorium B (Entrance G, Room G206-145), Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, Aarhus N. The title of the project is "Optimising faeces donor screening and selection by establishing evidence-based donor criteria". For more information, please contact PhD student Anne Karmisholt Grosen, email: annegros@rm.dk, Phone +45 2886 5825.

Assessment committee:

Søren Jensen-Fangel
Associate professor, Chief Physician, PhD
Department of Infectious Diseases, Aarhus University Hospital
Department of Clinical Medicine, Aarhus University
Denmark

Elisabeth Mariko Terveer, MD, PhD
Department of Medical Microbiology, Leiden University Hospital
The Netherlands

Marie Helleberg, Associate Professor, MD, PhD
Department of Infectious Diseases, Copenhagen University Hospital
Department of Clinical Medicine, University of Copenhagen
Denmark

Permission

By sending in this form:

- I hereby grant permission to publish the above Danish and English press releases.

- I confirm that I have been informed that any applicable inventions shall be treated confidentially and shall under no circumstances whatsoever be published, presented or mentioned prior to submission of a patent application, and that I have an obligation to inform my head of department and the university's Patents Committee if I believe I have made an invention in connection with my work. I also confirm that I am not aware that publication violates any other possible holders of a copyright.