

Press release

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Basic information

Name: Susanna Botticelli Email: sbotticelli@dent.au.dk Phone: +45 22966576

Department of: Dentistry

Main supervisor: Professor Thomas Klit Petersen

Title of dissertation: "Cleft severity and timing of hard palate repair_occlusal relations, palatal morphology and speech in unilateral cleft lip and palate"

Date for defence: November 8th 2019 at (time of day): 2pm Place: Søauditorierne: Merete Barker (1253-211) / Lakeside Lecture Theatres_ Merete Barker Auditorium (1253-211)_ Bartholin Allé 3, 8000 Århus C

Press release (Danish)

Læbe-ganespalte er en af de hyppigste medfødte misdannelser, som på verdensplan forekommer hos ca. 1 af hver 700 nyfødte. Trods den relative høje prævalens er debatten om den optimale metode for primær lukning af ganespalten præget af usikkerhed. En klassisk kontrovers omhandler tidspunkt for kirurgisk lukning af den hårde gane idet tidlig kirurgi anses for at optimere taleudviklingen modsat sen kirurgi traditionelt anses for at være mere favorabel af hensyn til væksten af overkæben. Trial 1 i Scandcleft-projektet, et af tre parallelle RCT-studier der involverer ti skandinaviske og britiske spaltecentre, er blevet designet til at besvare spørgsmålene om tidlig eller sen ganelukning for børn født med enkeltsidig læbe-gumme-ganespalte. I betragtning af den store variation i spalte-sværhedsgrad hos børn født med denne type spalte var formålet med dette Ph.D projekt at undersøge om størrelse og form af den oprindelige spalte har betydning for resultaterne ved henholdsvis tidlig og sen kirurgisk timing for lukning af den hårde gane. Hypotese var, at andre forhold kan være medvirkende til forskelle i behandlingsresultater, nemlig at den oprindelige spaltestørrelse muligvis kan betragtes som en prædikator for tandstilling-forhold, gane formet og tale. Resultater kan være af betydning for valg af kirurgiske metoder og for at forbedre kommunikationen med forældre og behandlere om prognose for det kirurgiske indgreb samt om fremtidige behandlingsbehov.

Resultater er sammenfattet i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Susanna Botticelli, der forsvare det d. 8. november 2019.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 8/11 kl. 14 i Merete Barker Auditorium(1253-211)_ Søauditorierne- Århus Universitet. Bartholins Allé 3, 8000 Aarhus. Titlen på projektet er "Cleft severity and timing of hard palate repair_occlusal relations, palatal morphology and speech in unilateral cleft lip and palate" . Yderligere oplysninger: Ph.d.-studerende Susanna Botticelli, e-mail: sbotticelli@dent.au.dk, tlf. 22966576.

Bedømmelsesudvalg:

Formand for bedømmelsesudvalget og moderator for forsvaret:

Associate Professor Rubens Spin-Neto DDS, PhD

Section of Oral Radiology, Department of Dentistry and Oral Health, Aarhus University

Professor Emeritus Anne Marie Kuijpers-Jagtman

Radboud University, Nijmegen, The Netherlands

Department of Orthodontics, University Medical Centre Groningen, Groningen, The Netherlands

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Associate Professor and Consultant Orthodontist Agneta Karsten

Department of Dental Medicine, Orthodontic Section, Karolinska Institutet, Sweden

Press release (English)

Cleft lip and palate is among the most frequent congenital malformations in humans. Worldwide, it affects about one out of 700 new-borns. Despite the relatively high occurrence, the debate on optimal method for primary surgical closure of the cleft is characterised by uncertainty. It is a long lasting debate between orthodontists and speech pathologists which treatment protocol is best for maxillofacial growth and for speech, as best growth requires late surgery of the palate, while best speech requires early surgery. Trial 1 in the Scandleft project, a series of three parallel group randomised trials involving ten Scandinavian and British cleft centres, was designed to answer the questions about earlier or delayed palatal surgery for children born with unilateral cleft lip and palate.

Considering the large variation in cleft severity in this population, in the present dissertation we raised the hypothesis that size and morphology of the pre-operative cleft may affect the impact of surgical outcome and as a consequence influence choice of timing. The role of cleft severity in determining dental bite, palatal morphology and speech was investigated.

Findings may be of importance to inform the choice of surgical methods and to improve the communication to parents and caregivers about prognosis of the surgical intervention and future treatment need.

The project was carried out by Ph.D candidate Susanna Botticelli, who is defending her dissertation on November 8th 2019.

The defence is public and takes place on November 8th 2019 at 2pm at the Lakeside Lecture Theatres-Merete Barker Auditorium_Aarhus University. Address: Bartholin Allé 3, 8000 Århus C.

The title of the project is "Cleft severity and timing of hard palate repair_occlusal relations, palatal morphology and speech in unilateral cleft lip and palate".

For more information please contact Ph.D student Susanna Botticelli, email: sbotticelli@dent.au.dk;

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Assessment committee:

Chairman of the Assessment Committee and moderator of the Defence

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