

Press release

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Basic information

Name: Xiaowen Niu Email: niuxiaowen@dent.au.dk Phone: 91821875

Department of: Dentistry

Main supervisor: Paolo M. Cattaneo

Title of dissertation: Orthodontics, Pediatric Sleep-disordered Breathing, and Nocturnal Enuresis

Date for defence: 26-11-2020 at (time of day): 11:00 - 13:00 Place: Online

Press release (Danish)

Ortodonti, Søvnforstyrret vejtrækning og Natlig enurese

Projektet blev udført af Xiaowen Niu, som forsvare sin afhandling 26.november kl. 11:00

Søvnrelaterede vejtrækningsforstyrrelser (SDB) er udtryk for vejtrækningsbesvær under søvn, hvilket er almindeligt forekommende hos børn. Hvis dette ikke behandles kan det resultere i alvorlige komplikationer som kardiovaskulære lidelser, metaboliske sygdomme og ufrivillig natlig vandladning, (enurese, NE). Specialtandlæger i ortodonti har en enestående mulighed for at screene for SDB, fordi de har en bred patientpopulation, som de har kontakt med i længere perioder. I forbindelse med diagnostik og behandling tager specialtandlæger desuden jævnlige røntgenbilleder af de kraniofaciale strukturer, som også omfatter de øvre luftveje. Ved at sammenholde relationen mellem SDB og NE er den hypotese opstået at behandling af SDB vil forbedre symptomerne på NE. Denne PhD afhandling søger at skaffe ny viden om SDB og NE hos børn og hvordan disse kan påvirkes af ortodontisk behandling.

Forsvaret er offentligt og kan følges på Zoom, <https://aarhusuniversity.zoom.us/j/64381683488>. Yderligere oplysninger fås hos PhD studerende Xiaowen Niu, e-mail: niuxiaowen@dent.au.dk, tlf +45 9182 1875.

Press release (English)

Orthodontics, Pediatric Sleep-disordered Breathing, and Nocturnal Enuresis

The project was carried out by Xiaowen Niu, who is defending her dissertation on Thursday 26 November at 11:00.

Sleep-disordered breathing (SDB) is a general term for breathing difficulties during sleep, which is a common condition in childhood that, if left untreated, may result in severe complications like cardiovascular morbidity, metabolic comorbidities, and nocturnal enuresis (NE). Orthodontists are in a unique position to screen for SDB, as they have a broad patient population with whom they maintain contact for a long period. Moreover, orthodontists, for diagnostic purposes, regularly acquire radiographic records of the craniofacial structures which encompass the upper airway. Considering the relationship between SDB and NE, the hypothesis that the treatment of SDB might ameliorate the symptoms of NE was raised. This PhD thesis aims to provide new knowledge on SDB and NE in children, and how these may be influenced by orthodontic treatments.

The defence is public and takes place online via Zoom, <https://aarhusuniversity.zoom.us/j/64381683488>. For more information, please contact PhD student Xiaowen Niu, email: niuxiaowen@dent.au.dk, Phone +45 9182 1875.

Assessment committee:

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Main supervisor, non-voting member of the committee

Paolo M. Cattaneo, Section of Orthodontics, Department of Dentistry and Oral Health, Aarhus University, Denmark

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