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Snoring

A dental sleep condition and an acoustic phenomenon

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Appendices

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Acknowledgements

AUTHORS' CONTRIBUTIONS

Chapter 2. Associations between snoring and dental sleep conditions: a systematic review

Zhengfei Huang, Ning Zhou, Thiprawee Chattrattrai, Maurits K.A. van Selms, Ralph de Vries, Antonius A.J. Hilgevoord, Nico de Vries, Ghizlane Aarab, Frank Lobbezoo

ZH, GA, and FL designed this study. RdV performed the search. ZH and NZ screened the search results and preformed data extraction. ZH performed quality assessment. ZH wrote the first draft and all other co-authors gave feedback on the draft and approved the final manuscript.

Chapter 3. Associated factors of primary snoring and obstructive sleep apnea in patients with sleep bruxism: a questionnaire study

Zhengfei Huang, Ghizlane Aarab, Thiprawee Chattrattrai, Naichuan Su, Catherine M.C. Volgenant, Antonius A.J. Hilgevoord, Nico de Vries, Frank Lobbezoo

ZH, GA, and FL designed this study. ZH and CV obtained the approval of the Medical Ethics Review Committee. ZH, TC, and NS performed analyses. ZH wrote the first draft and all other co-authors gave feedback on the draft and approved the final manuscript.

Chapter 4. Effects of demographic and sleep-related factors on snoring sound parameters

Zhengfei Huang, Frank Lobbezoo, Joost W. Vanhommerig, Catherine M.C. Volgenant, Nico de Vries, Ghizlane Aarab, Antonius A.J. Hilgevoord

ZH and AH designed this study. ZH, CV, and AH obtained the approval of the Medical Ethics Review Committee. ZH and AH collected data. ZH and JV performed analyses. ZH wrote the first draft and all other co-authors gave feedback on the draft and approved the final manuscript.

Chapter 5. Association between the acoustic characteristics of recorded snoring sounds and the annoyance perceived by exposed test subjects: a pilot study

Zhengfei Huang, Ghizlane Aarab, Madeline J.L. Ravesloot, Nico de Vries, Antonius A.J. Hilgevoord, Frank Lobbezoo

ZH and AH designed this study. AH and NdV recruited listeners. ZH performed analyses and wrote the first draft. All other co-authors gave feedback on the draft and approved the final manuscript.

Chapter 6. Prediction of the obstruction sites in the upper airway in sleep-disordered breathing based on snoring sound parameters: a systematic review

Zhengfei Huang, Ghizlane Aarab, Madeline J.L. Ravesloot, Ning Zhou, Pien F.N. Bosschieter, Maurits K.A. van Selms, Chantal den Haan, Nico de Vries, Frank Lobbezoo, Antonius A.J. Hilgevoord

ZH and AH designed this study. CdH performed the search. ZH and NZ screened the search results. ZH preformed data extraction and quality assessment. ZH wrote the first draft and all other co-authors gave feedback on the draft and approved the final manuscript.

Chapter 7. Predicting upper airway collapse sites found in drug-induced sleep endoscopy from clinical data and snoring sounds in obstructive sleep apnea patients: a prospective clinical study

Zhengfei Huang, Pien F.N. Bosschieter, Ghizlane Aarab, Maurits K.A. van Selms; Joost W. Vanhommerig, Antonius A.J. Hilgevoord, Frank Lobbezoo, Nico de Vries

ZH, AH, and NdV designed this study. ZH and AH obtained the approval of the Medical Ethics Review Committee. ZH and PB collected data. ZH and JV performed analyses. ZH wrote the first draft and all other co-authors gave feedback on the draft and approved the final manuscript.

PUBLICATIONS

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- Huang Z, Zhou N, Chattrattrai T, van Selms MKA, de Vries R, Hilgevoord AAJ, de Vries N, Aarab G, Lobbezoo F. Associations between snoring and dental sleep conditions: a systematic review. *Submitted*.
- Huang Z, Aarab G, Chattrattrai T, Su N, Volgenant CMC, Hilgevoord AAJ, de Vries N, Lobbezoo F. Associated factors of primary snoring and obstructive sleep apnea in patients with sleep bruxism: a questionnaire study. J Oral Rehabil. 2022. doi: 10.1111/joor.13354.
- Huang Z, Lobbezoo F, Vanhommerig JW, Volgenant CMC, de Vries N, Aarab G, Hilgevoord AAJ. Effects of demographic and sleep-related factors on snoring sound parameters. *Submitted*.
- Huang Z, Aarab G, Ravesloot MJL, de Vries N, Hilgevoord AAJ, Lobbezoo F. Association between the acoustic characteristics of recorded snoring sounds and the annoyance perceived by exposed test subjects: a pilot study. *Submitted*.
- Huang Z, Aarab G, Ravesloot MJL, Zhou N, Bosschieter PFN, van Selms MKA, den Haan C, de Vries N, Lobbezoo F, Hilgevoord AAJ. Prediction of the obstruction sites in the upper airway in sleep-disordered breathing based on snoring sound parameters: a systematic review. Sleep Med. 2021;88:116-133. doi: 10.1016/j.sleep.2021.10.015.
- Huang Z, Bosschieter PFN, Aarab G, van Selms MKA, Vanhommerig JW, Hilgevoord AAJ, Lobbezoo F, de Vries N. Predicting upper airway collapse sites found in drug-induced sleep endoscopy from clinical data and snoring sounds in obstructive sleep apnea patients: a prospective clinical study. J Clin Sleep Med. 2022. doi: 10.5664/jcsm.9998.

OTHER PUBLICATIONS

- Huang Z, Zhou N, Lobbezoo F, Almeida FR, Cistulli PA, Dieltjens M, Huynh NT, Kato T, Lavigne GJ, Masse JF, Pliska BT, van de Rijt L, Sutherland K, Thymi M, Vanderveken OM, de Vries R, Aarab G. Dental sleep-related conditions and the role of oral healthcare providers: a scoping review. Sleep Med Rev. 2022;67:101721. doi: 10.1016/j.smrv.2022.101721.
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10.1177/00220345221110443.

- Huang Z, Lobbezoo F, de Vries N, Aarab G, Hilgevoord AAJ. Temporal association between leg movements and respiratory events in patients with obstructive sleep apnea: description and differences between AASM and WASM scoring criteria. *Submitted*.

ABOUT THE AUTHOR

Zhengfei Huang was born in 1992 in Jinan, China. In 2010, he started to study Dentistry at Shandong University, where he met the other half of his life. He graduated as a dentist and obtained his Master degree in Prosthodontics in 2018. After that, he and his partner moved to the Netherlands to pursue a PhD degree. During his PhD, he shifted his research topic from dental implants, on which he did research during his Master period, to Dental Sleep Medicine, especially to snoring and obstructive sleep apnea. He is obsessed with this intriguing discipline and will continue his academic career.

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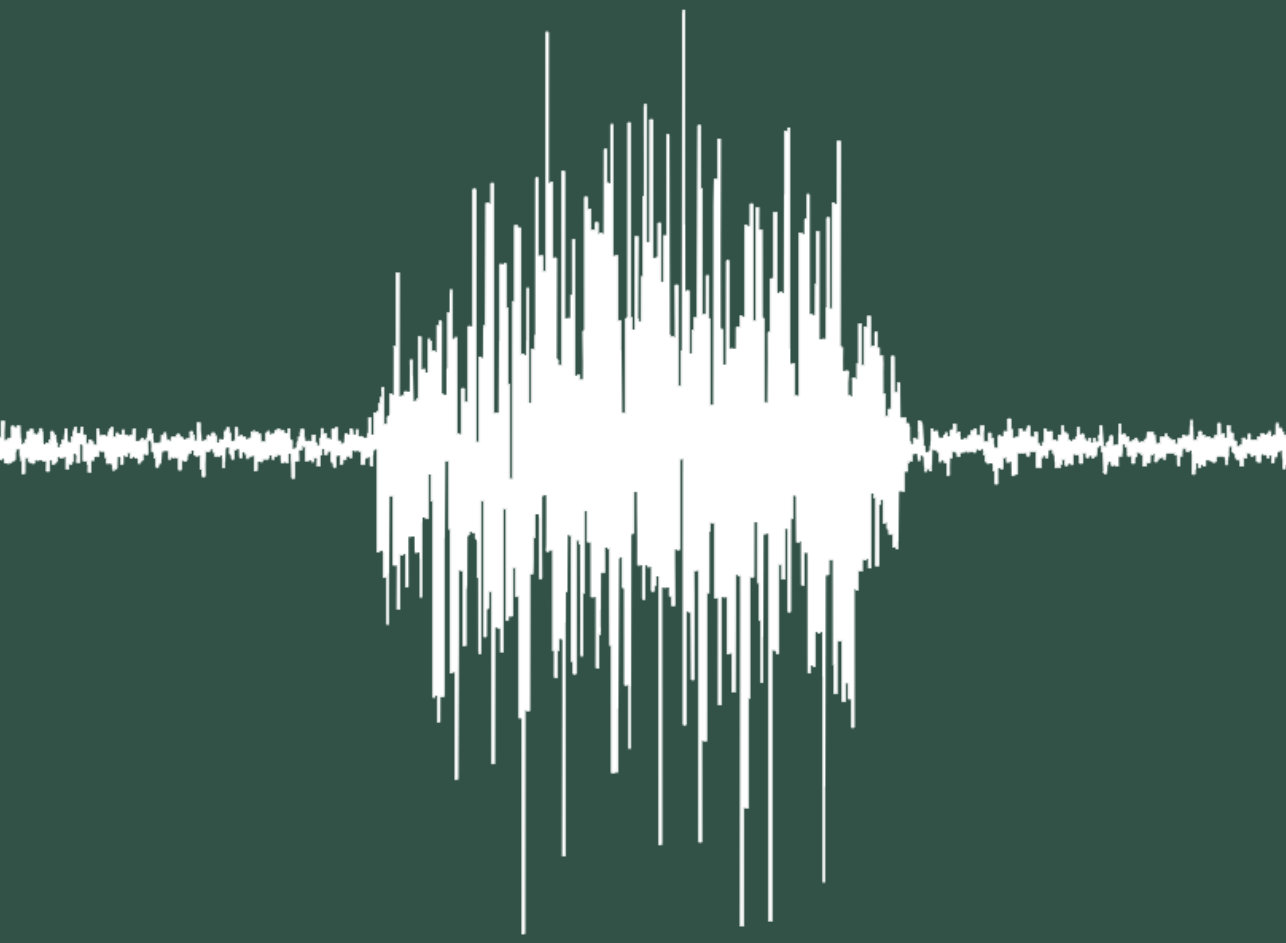
To my mentor, my family, and myself

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