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## Oral-appliance therapy obstructive sleep apnea-hypopnea syndrome

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**ORAL-APPLIANCE THERAPY IN  
OBSTRUCTIVE SLEEP APNEA-  
HYPOPNEA SYNDROME**

**A clinical study on therapeutic  
outcomes**

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**Rijksuniversiteit Groningen**

**ORAL-APPLIANCE THERAPY IN  
OBSTRUCTIVE SLEEP APNEA-  
HYPOPNEA SYNDROME**

**A clinical study on therapeutic outcomes**

Proefschrift

ter verkrijging van het doctoraat in de  
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aan de Rijksuniversiteit Groningen  
op gezag van de  
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- The Department of Clinical Neurophysiology, University Medical Center Groningen, The Netherlands

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- The Department of Orthodontics, Faculty of Medicine, Umeå University-Umeå, Sweden
- The Department of Clinical Neuropsychology, University Medical Center Groningen, The Netherlands
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## List of abbreviations

|                     |  |
|---------------------|--|
| AHI                 | : apnea-hypopnea index                                     |
| AUC                 | : area under the curve                                     |
| BiPAP               | : bi-level positive airway pressure                        |
| CENTRAL             | : Cochrane central register of controlled trials           |
| CI                  | : confidence interval                                      |
| CPAP                | : continuous positive airway pressure                      |
| ESS                 | : Epworth sleepiness scale                                 |
| GRISS               | : Golombok Rust inventory of sexual satisfaction           |
| LOA                 | : lapses of attention                                      |
| LVEDD               | : left ventricular end-diastolic diameter                  |
| LVEF                | : left ventricular ejection fraction                       |
| LVEDS               | : left ventricular end-systolic diameter                   |
| LVIVS               | : diastolic interventricular septal thickness              |
| LVMI                | : left ventricular mass index                              |
| LVPW                | : left ventricular posterior wall diastolic thickness      |
| MeSH                | : medical subject headings                                 |
| minSaO <sub>2</sub> | : lowest oxyhemoglobin saturation during sleep             |
| MMA                 | : maxillomandibular advancement                            |
| MRA                 | : mandibular repositioning appliance                       |
| NS                  | : not significant  |
| NT-pro-BNP          | : amino-terminal fragment of pro-brain natriuretic peptide |
| OSAHS               | : obstructive sleep apnea-hypopnea syndrome                |
| PAS                 | : posterior airway space                                   |
| P <sub>eff</sub>    | : effective positive airway pressure                       |
| PUS                 | : posterior uvular space                                   |
| RDI                 | : respiratory disturbance index                            |
| REM                 | : rapid-eye-movement                                       |
| RERA                | : respiratory effort related arousal                       |
| SDLP                | : standard deviation of the lateral position               |
| SF-36               | : medical outcomes study 36-item short-form health survey  |
| SHBG                | : sex hormone-binding globuline                            |
| UPPP                | : uvulopalatopharyngoplasty                                |



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