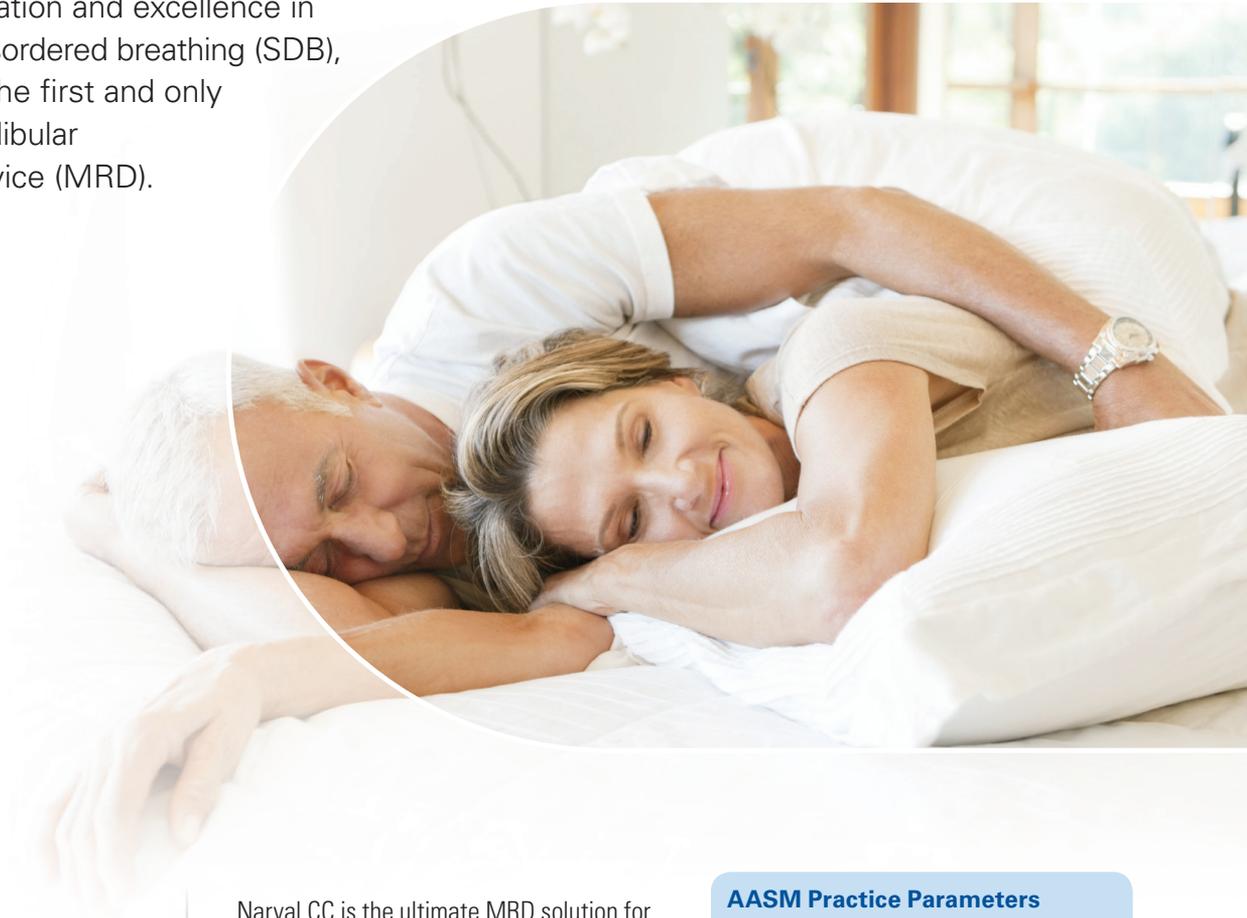


Narval™ CC MRD

Known for innovation and excellence in treating sleep-disordered breathing (SDB), ResMed offers the first and only CAD/CAM mandibular repositioning device (MRD).



Narval CC is the ultimate MRD solution for patients with mild to moderate obstructive sleep apnea (OSA), as well as those who are unable to comply with continuous positive airway pressure (CPAP) treatment. It is also a first line treatment for snoring in the absence of OSA.



AASM Practice Parameters

Oral appliances (OA) are indicated for use in patients with mild to moderate OSA who prefer them to CPAP therapy, patients who do not respond to CPAP and patients who are not appropriate candidates for CPAP or fail CPAP treatment attempts.¹

1st Line Treatment

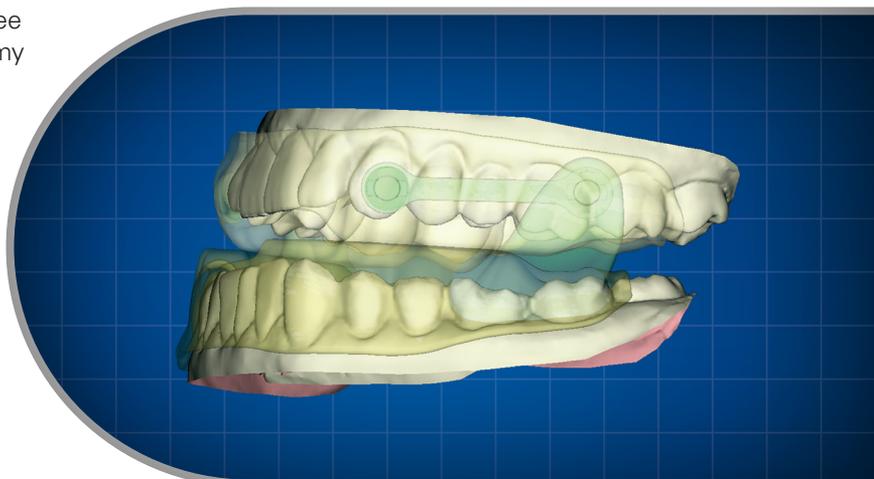
- Mild to moderate OSAS (AHI 5-30) for patients who:
 - Prefer MRDs over CPAP
 - Do not respond to CPAP
 - Are inappropriate candidates for or fail CPAP
 - Fail behavioral measures treatment
- Primary snoring for patients who do not respond or are not appropriate candidates for behavioral measures treatment

2nd Line Treatment

- Severe OSAS (AHI>30) in case of lack of compliance with CPAP.

Narval CC, the first and only CAD/CAM solution on the market, ensures precise fit and comfort retention.

- Computer-aided design (CAD) enables a high degree of customization to suit the complex dental anatomy of individual patients
- Computer-aided manufacturing (CAM) through selective laser sintering guarantees a consistently accurate MRD
- Made of highly resilient and durable biocompatible polymer material; Narval is metal-free, flexible and light weight
- Easy to reorder with CAD/CAM reproduction
- Easy to titrate; highly adjustable (15mm protrusive range—1mm increments)



Clinical benefits

High compliance

- 80% of patients wear the Narval device seven nights a week by six weeks into the treatment²
- Treatment compliance was high after 18 months with the Narval CC being worn on average 6.2 nights per week³

Demonstrated results

- Patients with moderate OSA exhibited an average decrease in apnea—hypopnea index (AHI) of 57%⁴
- Rapid improvement on parameters of sleepiness and quality of life²

Patient benefits

Discrete and comfortable—yet effective

- Narval's proprietary design combined with CAD/CAM technology offers one of the lightest solutions on the market
- Minimal bulk in the mouth ensures patient comfort and compliance
- Absence of contact with incisors reduces dental sensitivity post-wear
- Lateral flexibility eliminates "locked-in" sensation and offers freedom to talk and drink
- Patented optimized retention of the mandible (ORM) articulation promotes mouth closing and physiological breathing during sleep⁴
- Narval device does not load incisors. This limits risk of incisor tilting and improves patient comfort

For more information contact **Great Lakes Orthodontics, Ltd.**, today:

Phone: **1-800-828-7626**

Email: **cmlajoie@greatlakesortho.com**

Web: **www.greatlakessleep.com**

In partnership with ResMed, providing you with innovative, effective sleep solutions

¹ American Academy of Sleep Medicine Guidelines, Update 2006

² Vecchierini M et al. Efficacy and compliance of mandibular repositioning device in obstructive sleep apnea syndrome under a patient-driven protocol of care. *Sleep Med* 2008;9(7):762-769

³ Dookun, R. 18 month assessment of 54 patients referred for treatment of anti-social snoring (AHI \leq 30/hr) with a custom Mandibular Repositioning Device (MRD). Paper presented at the World Association of Sleep Medicine & Canadian Sleep Society Congress 2011

⁴ Geraards et al. (2010) First intention management of obstructive sleep apnea syndrome (OSAS) by custom-made mandibular advancement device: the medium-term results. Prospective study by the General Hospital Pneumologists College (CPHG). *Rev Pneumol Clin* 2010;66(5):284-292