
Tilmelding af Foredrag

Foredragets titel

Systematic review of upper airway surgery in obstructive sleep apnea including drug-induced sleep endoscopy findings in the preoperative evaluation

Forfatter(e)

Bertelsen JB (1),
Ovesen T(1+2),
Zainali-Gill K (1)

Afdeling/praksis

1. University Clinic for Flavour, Balance and Sleep, Dept. ORL-HN surgery, Region Hospital West Jutland, Denmark
2. Department of Clinical Medicine, Aarhus University, Denmark

Uddannelsesniveau

JBB: Afdelingslæge, PhD
TO: Professor, overlæge, Dr. med.
KZG: Afdelingslæge, PhD

Introduktion

The objective is to evaluate the effectiveness of upper airway surgery in adults with Obstructive sleep apnea (OSA) verified on Drug Induced Sedation Endoscopy (DISE) and evaluated by change in apnea-hypopnea-index (AHI) with minimum 3 month`s follow-up.

Materiale/metode

Cochrane, PubMed, CINAHL and Embase were systematically searched on December 12th, 2019. Abstracts in languages other than English were deselected. Relevant studies were selected and full texts were obtained for critical appraisal. Relevant data were extracted for data synthesis.
Surgeries targeting other anatomical sites than upper airways with a known reduction in AHI as bariatric surgery were also excluded.

Resultater

Ten studies were finally included for review, comprised by three studies for surgeries of the velum and oropharynx, four studies addressing the base of tongue (BOT) and three studies in multi-level surgery.
Velum and oropharynx surgery led to an AHI-decrease of 11.86, 95% CI (10.21; 13.51) event/hour. ESS was reduced 7.01 (5.99; 8.04). In BOT surgery AHI was reduced 19.31 (17.81;20.81) events/hour and ESS decreased with 7.03 (6.44; 7.63). Multilevel surgery reduced AHI with 28.65 (24.60, 32.69) events/hour and ESS with 8.55 (6.73; 10.38).

Diskussion

Including DISE in the preoperative evaluation of OSA patients improved the selection of patients for specific upper airway surgeries and it caused a better surgical outcome measured by a reduction in AHI and ESS.

Forfatters fulde navn

Jannik buus Bertelsen



DANSK SELSKAB FOR

Otorhinolaryngologi,
Hoved- & Halskirurgi

Forfatters email

jannik.bertelsen@auh.rm.dk