**Text file S1, Example search strategy (PubMed)**

((Cautery[mesh] OR "cauterization" OR "cauterisation" OR "cautery" OR "electric cautery" OR "electrical cautery" OR "electro cautery" OR "electrocauterization" OR "electrocautery" OR "electrofulguration" OR "fulguration" OR "galvanocautery" OR Cryosurgery[mesh] OR "cryosurgery" OR "cryogenic surgery" OR High-Intensity Focused Ultrasound Ablation OR "high intensity focused ultrasound" OR Laser Therapy OR "laser treatment" OR "laser surgery" OR "Laser ablation" OR "laser scalpel" OR "laser knife" OR Ambulatory Surgical Procedures[mesh] OR "ambulatory surgery" OR "ambulant surgery" OR "ambulatory surgery" OR "ambulatory surgical procedures" OR "day surgery" OR "outpatient surgery" OR Lipectomy[mesh] OR "lipectomy" OR "lipoplasty" OR "liposuction" OR Biopsy OR Biopsy, Needle[mesh] OR "needle biopsy" OR "aspiration biopsy" OR Body Modification, Non-Therapeutic[mesh] OR "Body Piercing" OR Circumcision, Female[mesh] OR Circumcision, Male[mesh] OR "circumcision" OR Tattooing OR "tattoo" OR Curettage[mesh] OR "curettage" OR Debridement[mesh] OR "debridement" OR Drainage[mesh] OR "drainage" OR Negative-Pressure Wound Therapy[mesh] OR "negative pressure wound therapy" OR "vacuum assisted closure" OR Elective Surgical Procedures[mesh] OR "elective surgical procedure" OR "elective surgical procedures" OR Electrosurgery[mesh] OR "electrosurgery" OR Light Coagulation[mesh] OR "light coagulation" OR "photocoagulation" OR "laser coagulation" OR Keratectomy[mesh] OR "keratectomy" OR Corneal Surgery, Laser[mesh] OR "laser corneal surgery" OR Mohs Surgery[mesh] OR "Mohs surgery" OR "Moh’s surgery" OR Minor Surgical Procedures[mesh] OR "minor surgical procedures" OR "minor surgical procedure" OR "minor surgery" OR "minor surgeries" OR Ophthalmologic Surgical Procedures[mesh] OR "ophthalmologic surgical procedures" OR "ophthalmologic surgical procedure" OR Blepharoplasty[mesh] OR "blepharoplasty" OR Dacryocystorhinostomy[mesh] OR "dacryocystorhinostomy" OR "Dacryocystostomy" OR Filtering Surgery[mesh] OR "filtering surgery" OR "filtration surgery" OR Iridectomy[mesh] OR "iridectomy" OR "corectomy" OR Refractive Surgical Procedures[mesh] OR "refractive surgical procedures" OR "keratorefractive surgical procedure" OR "refractive surgery" OR "Refractive procedure" OR Scleral Buckling[mesh] OR "scleral buckling" OR Vitrectomy[mesh] OR "vitrectomy" OR "vitreous resection" OR "vitreous body resection" OR Vitreoretinal Surgery[mesh] OR "vitreoretinal surgery" OR "vitreoretinal procedure" OR Oral Surgical Procedures[mesh] OR "oral surgical procedure" OR Apicoectomy[mesh] OR "apicoectomy" OR "root end resection" OR "root resection" OR Gingivectomy[mesh] OR "gingivectomy" OR Gingivoplasty[mesh] OR "gingivoplasty" OR Oral Surgical Procedures, Preprosthetic[mesh] OR "preprosthetic oral surgical procedures" OR Sinus Floor Augmentation[mesh] OR "sinus lifting" OR "sinus floor augmentation" OR Tooth Extraction[mesh] OR "tooth extraction" OR "exodontia" OR "molar extraction" OR Tooth Replantation[mesh] OR "tooth replantation" OR "tooth reimplantation" OR Sclerostomy[mesh] OR "sclerostomy" OR Nasal Surgical Procedures[mesh] OR "nasal surgical procedures" OR "rhinoplasty" OR Dental Implantation[mesh] OR "dental implantation" OR "dental implant" OR Punctures[mesh] OR "punctures" OR "paracentesis" OR "arthrocentesis" OR "spinal puncture" OR "spinal tap" OR Reconstructive Surgical Procedures[mesh] OR "reconstructive surgical procedures" OR Body Contouring[mesh] OR "body contouring" OR "body sculpting" OR Dermatologic Surgical Procedures[mesh] OR "dermatologic surgical procedures" OR Guided Tissue Regeneration[mesh] OR "guided tissue regeneration" OR Scleroplasty[mesh] OR "scleroplasty" OR Tissue Expansion[mesh] OR "tissue expansion" OR Phacoemulsification[mesh] OR "Phacoemulsification" OR "lens emulsification" OR Piezosurgery[mesh] OR "piezosurgery" OR "piezo electric surgery" OR Wound Closure Techniques[mesh] OR "wound closure techniques" OR Suture Techniques[mesh] OR "Suture techniques" OR "suturing techniques" OR Sutureless Surgical Procedures[mesh] OR surgical stapling[mesh] OR "surgical stapling" OR "sutureless surgical procedures")

AND (("Anesthesia, Local"[Mesh]) OR "Anesthetics, Local" [Pharmacological Action] OR Benoxinate[tw] OR Benzocaine[tw] OR Benzyl Alcohol[tw] OR bumecain[tw] OR Bupivacaine[tw] OR butacaine[tw] OR butamben[tw] OR canertinib dihydrochloride[tw] OR carbizocaine[tw] OR Carticaine[tw] OR chloroprocaine[tw] OR Cocaine[tw] OR Dibucaine[tw] OR dimethisoquin[tw] OR dimethocaine[tw] OR Diphenhydramine[tw]OR dyclonine[tw]OR Ethyl Chloride[tw] OR Etidocaine[tw] OR heptacaine[tw] OR Levobupivacaine[tw] OR Lidocaine[tw] OR Lidocaine, Prilocaine Drug Combination[tw] OR Mepivacaine[tw] OR oxethazaine[tw] OR pentacaine[tw] OR pramoxine[tw] OR Prilocaine[tw] OR Procaine[tw] OR propisomide[tw] OR Propoxycaine[tw] OR proxymetacaine[tw] OR QX-314[tw] OR Ropivacaine[tw] OR TEC solution[tw] OR Tetracaine[tw] OR Tetrodotoxin[tw] OR Trimecaine[tw] OR tyrothricin, benzalkonium chloride, benzocaine drug combination[tw] OR "local anesthesia" OR "topical anesthesia" OR "local anesthetic" OR "topical anesthetic"))

AND (anti-anxiety[tw] OR anxiety[tw] OR anxiolytic[tw] OR anxiolytics[tw] OR Quazepam[tw] OR Quiedorm[tw] OR Doral[tw] OR Sch 16134[tw] OR Sch-16134[tw] OR Triazolam[tw] OR U-33,030[tw] OR U 33,030[tw] OR U33,030[tw] OR Halcion[tw] OR Trilam[tw] OR Apo-Triazo[tw] OR Apo Triazo[tw] OR Gen-Triazolam[tw] OR Gen Triazolam[tw] OR Olanzepine[tw] OR 2-Methyl-4-(4-methyl-1-piperazinyl)-10H-thieno(2,3-b)(1,5)benzodiazepine[tw] OR LY-170052[tw] OR LY 170052[tw] OR LY170052[tw] OR Zyprexa[tw] OR Zolafren[tw] OR LY 170053[tw] OR Olanzapine Pamoate[tw] OR Midazolam[tw] OR Midazolam Maleate[tw] OR Dormicum[tw] OR Versed[tw] OR Midazolam Hydrochloride[tw] OR Ro 21-3981[tw] OR Ro 21 3981[tw] OR Ro 213981[tw] OR Medazepam[tw] OR Rusedal[tw] OR Nobrium[tw] OR Ro 5-4556[tw] OR Ro 5 4556[tw] OR Ro 54556[tw] OR Medazepam AWD[tw] OR Rudotel[tw] OR Medazepam Hydrochloride[tw] OR Medazepam Monohydrochloride[tw] OR Estazolam[tw] OR Tasedan[tw] OR ProSom[tw] OR D-40TA[tw] OR D40TA[tw] OR Nuctalon[tw] OR Clobazam[tw] OR Urbanyl[tw] OR Onfi[tw] OR 1-Phenyl-5-methyl-8-chloro-1,2,4,5- tetrahydro-2,4-diketo-3H-1,5-benzodiazepine[tw] OR HR 376[tw] OR LM-2717[tw] OR LM 2717[tw] OR LM2717[tw] OR Frisium[tw] OR Clorazepate Dipotassium[tw] OR Dipotassium Chlorazepate[tw] OR 4306-CB[tw] OR Chlorazepate[tw] OR Clorazepate[tw] OR Tranxene[tw] OR Tranxilium[tw] OR Clorazepic Acid[tw] OR Clorazepate Monopotassium[tw] OR Chlordiazepoxide[tw] OR 7-Chloro-N-methyl-5-phenyl-3H-1,4-benzodiazepin-2-amine 4-oxide[tw] OR 7 Chloro N methyl 5 phenyl 3H 1,4 benzodiazepin 2 amine 4 oxide[tw] OR Methaminodiazepoxide[tw] OR 7-Chloro-2-methylamino-5-phenyl-3H-1,4-benzodiazepine-4-oxide[tw] OR 7 Chloro 2 methylamino 5 phenyl 3H 1,4 benzodiazepine 4 oxide[tw] OR Chlordiazepoxide Hydrochloride[tw] OR Chlordiazepoxide Monohydrochloride[tw] OR Librium[tw] OR Chlozepid[tw] OR Elenium[tw] OR Chlordiazepoxide Hydrobromide[tw] OR Chlordiazepoxide Perchlorate[tw] OR Temazepam[tw] OR Hydroxydiazepam[tw] OR Oxydiazepam[tw] OR 3-Hydroxydiazepam[tw] OR 3 Hydroxydiazepam[tw] OR Methyloxazepam[tw] OR Planum[tw] OR PMS-Temazepam[tw] OR PMS Temazepam[tw] OR Pronervon T[tw] OR Remestan[tw] OR Restoril[tw] OR Ro-5-5345[tw] OR Ro 5 5345[tw] OR Ro55345[tw] OR SaH 47-603[tw] OR SaH 47 603[tw] OR SaH 47603[tw] OR Signopam[tw] OR Temaze[tw] OR Temazep Von Ct[tw] OR Tenox[tw] OR WY-3917[tw] OR WY 3917[tw] OR WY3917[tw] OR Apo-Temazepam[tw] OR Apo Temazepam[tw] OR Dasuen[tw] OR Euhypnos[tw] OR Gen-Temazepam[tw] OR Gen Temazepam[tw] OR Levanxol[tw] OR Norkotral Tema[tw] OR Normison[tw] OR Temtabs[tw] OR Nocturne[tw] OR Normitab[tw] OR Nortem[tw] OR Novo-Temazepam[tw] OR Novo Temazepam[tw] OR Nu-Temazepam[tw] OR Nu Temazepam[tw] OR Prazepam[tw] OR Lysanxia[tw] OR Reapam[tw] OR Centrax[tw] OR Mono Demetrin[tw] OR Demetrin[tw] OR Pirenzepine[tw] OR Pyrenzepine[tw] OR Pirenzepin[tw] OR L-S 519[tw] OR LS-519[tw] OR LS 519[tw] OR LS519[tw] OR Pirenzepine Dihydrochloride[tw] OR Gastrozepin[tw] OR Ulgescum[tw] OR Piren-Basan[tw] OR Piren Basan[tw] OR Pirenzepin Von Ct[tw] OR Pirenzepin-Ratiopharm[tw] OR Pirenzepin Ratiopharm[tw] OR Gastrotsepin[tw] OR Ulcoprotec[tw] OR Nitrazepam[tw] OR Nitrodiazepam[tw] OR Dormo-Puren[tw] OR Eatan[tw] OR Imadorm[tw] OR Imeson[tw] OR Mogadon[tw] OR Nitrazadon[tw] OR Nitrazep[tw] OR Nitrazepam AL[tw] OR Nitrazepam-Neuraxpharm [tw] OR Nitrazepam Neuraxpharm[tw] OR Novanox[tw] OR Radedorm[tw] OR Remnos[tw] OR Serenade[tw] OR Somnite[tw] OR Rhoxal-Nitrazepam[tw] OR Rhoxal[tw] OR Nitrazepam[tw]OR Alodorm[tw] OR Dormalon[tw] OR Oxazepam[tw] OR Serax[tw] OR Tazepam[tw] OR Adumbran[tw] OR Lorazepam[tw] OR Ativan[tw] OR Orfidal Wyeth[tw] OR Témesta[tw] OR Tolid OR Donix[tw] OR Duralozam[tw] OR Durazolam[tw] OR Idalprem[tw] OR Laubeel[tw] OR Lorazep Von Ct[tw] OR Lorazepam Medical[tw] OR Lorazepam-Neuraxpharm[tw] OR Lorazepam Neuraxpharm[tw] OR Lorazepam-Ratiopharm[tw] OR Lorazepam Ratiopharm[tw] OR Novo-Lorazem[tw] OR Novo Lorazem[tw] OR Nu-Loraz[tw] OR Nu Loraz[tw] OR Sedicepan[tw] OR Sinestron[tw] OR WY-4036[tw] OR WY 4036[tw] OR WY4036[tw] OR Apo-Lorazepam[tw] OR Apo Lorazepam[tw] OR Somagerol[tw] OR Temesta[tw] OR Flurazepam[tw] OR Dalmane[tw] OR Dalmadorm[tw] OR Dormodor[tw] OR Flurazepam Hydrochloride[tw] OR Flurazepam Dihydrochloride[tw] OR Flurazepam Monohydrochloride[tw] OR Staurodorm[tw] OR Apo-Flurazepam[tw] OR Apo Flurazepam[tw] OR Flurazepam Mono-Perchlorate[tw] OR Flurazepam Mono Perchlorate[tw] OR Flunitrazepam[tw] OR Fluridrazepam[tw] OR Flunibetav OR Flunimerck[tw] OR Fluninoc[tw] OR Rohypnol[tw] OR Rohipnol[tw] OR Narcozep[tw] OR Flunitrazepam-Ratiopharm[tw] OR Flunitrazepam Ratiopharm[tw] OR Flunitrazepam-Teva[tw] OR Flunitrazepam Teva[tw] OR Flunizep Von Ct[tw] OR RO-5-4200[tw] OR RO54200[tw] OR Fluni 1A Pharma[tw] OR Flunitrazepam-Neuraxpharm[tw] OR Flunitrazepam Neuraxpharm[tw] OR Flumazenil[tw] OR Flumazepil[tw] OR Romazicon[tw] OR Lanexat[tw] OR Ro 15-1788[tw] OR Ro 15 1788[tw] OR Ro 151788[tw] OR Anexate[tw] OR Nordazepam[tw] OR Deoxydemoxepam[tw] OR Desmethyldiazepam[tw] OR N-Descyclopropylmethylprazepam[tw] OR N Descyclopropylmethylprazepam[tw] OR N-Descyclopropylmethyl-Prazepam[tw] OR N Descyclopropylmethyl Prazepam[tw] OR Nordiazepam[tw] OR Norprazepam[tw] OR Demethyldiazepam[tw] OR N-Destrifluoroethylhalazepam[tw] OR N Destrifluoroethylhalazepam[tw] OR Ro 5-2180[tw] OR Ro 5 2180[tw] OR Ro 52180[tw] OR Vegesan[tw] OR Nordaz[tw] OR Tranxilium N[tw] OR Dealkylprazepam[tw] OR N-Desalkylhalazepam[tw] OR N Desalkylhalazepam[tw] OR Calmday[tw] OR Diazepam[tw] OR 7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one[tw] OR Diazemuls[tw] OR Faustan[tw] OR Valium[tw] OR Seduxen[tw] OR Sibazon[tw] OR Stesolid[tw] OR Apaurin[tw] OR Relanium[tw] OR Devazepide[tw] OR MK-329[tw] OR MK 329[tw] OR MK329[tw] OR L-364,718[tw] OR L 364,718[tw] OR L364,718[tw] OR Clonazepam[tw] OR Ro 5-4023[tw] OR Ro 54023[tw] OR Antelepsin[tw] OR Rivotril[tw] OR Bromazepam[tw] OR Apo-Bromazepam[tw] OR Apo Bromazepam[tw] OR BromaLich[tw] OR Bromaz 1A Pharma[tw] OR Bromazanil[tw] OR Bromazep Von Ct[tw] OR Bromazepam AL[tw] OR Bromazepam Beta[tw] OR Bromazepam Heumann[tw] OR Bromazepam-Neuraxpharm[tw] OR Bromazepam[tw] OR Neuraxpharm[tw] OR Bromazepam-Ratiopharm[tw] OR Bromazepam Ratiopharm[tw] OR Durazanil[tw] OR Gen-Bromazepam[tw] OR Gen Bromazepam[tw] OR Lexotan[tw] OR Lexomil[tw] OR Lexatin[tw] OR Lexotanil[tw] OR Ro 5-3350[tw] OR Ro 53350[tw] OR Anxyrex[tw] OR Anthramycin[tw] OR Antramycin[tw] OR Anthramycin, (11a alpha)-Isomer[tw] OR anthramycin[tw] OR Alprazolam[tw] OR Alprazolan[tw] OR Trankimazin[tw] OR U-31,889[tw] OR U31,889[tw] OR Xanax[tw] OR Alprox[tw] OR Esparon[tw] OR Cassadan[tw] OR D-65MT[tw] OR D65MT[tw] OR Kalma[tw] OR Novo-Alprazol[tw] OR Novo Alprazol[tw] OR Nu-Alpraz[tw] OR Nu Alpraz[tw] OR Ralozam[tw] OR Tafil[tw] OR Apo-Alpraz[tw] OR Apo Alpraz[tw] OR "Benzodiazepines"[Mesh] OR Benzodiazepine Compounds[tw] OR Benzodiazepine[tw])

**Text file S2, Reference list for included articles**

1. Aeschliman SD, Blue MS, Williams KB, Cobb CM, et al. A preliminary study on oxygen saturation levels of patients during periodontal surgery with and without oral conscious sedation using diazepam. J Periodontol. Jul 2003;74(7):1056-9.
2. Aydintug YS, Okcu KM, Guner Y, Gunaydin Y, et al. Evaluation of oral or rectal midazolam as conscious sedation for pediatric patients in oral surgery. Mil Med. Apr 2004;169(4):270-3.
3. Beer GM, Spicher I, Seifert B, Emanuel B, et al. Oral premedication for operations on the face under local anesthesia: a placebo-controlled double-blind trial. Plast Reconstr Surg. Sep 01 2001;108(3):637-43.
4. Berthold CW, Dionne RA, Corey SE. Comparison of sublingually and orally administered triazolam for premedication before oral surgery. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. Aug 1997;84(2):119-24.
5. Bezalel SA, Brewer JD, Baum CL, Arpey CJ, et al. Safety of Oral Midazolam as a Perioperative Anxiolytic for Outpatient Dermatologic Procedures. Dermatol Surg. 12 2020;46(12):1588-1592.
6. Boezaart AP, Berry RA, Laubscher JJ, Nell ML. Evaluation of anxiolysis and pain associated with combined peri- and retrobulbar eye block for cataract surgery. J Clin Anesth. May 1998;10(3):204-10.
7. Butz DR, Gill KK, Randle J, Kampf N, et al. Facial Aesthetic Surgery: The Safe Use of Oral Sedation in an Office-Based Facility. Aesthet Surg J. Feb 2016;36(2):127-31.
8. Cagiran E, Eyigor C, Sipahi A, Koca H, et al. Comparison of oral Midazolam and Midazolam-Ketamine as sedative agents in paediatric dentistry. Eur J Paediatr Dent. Mar 2010;11(1):19-22.
9. Chen M, Hill GM, Patrianakos TD, Ku ES, et al. Oral diazepam versus intravenous midazolam for conscious sedation during cataract surgery performed using topical anesthesia. J Cataract Refract Surg. Feb 2015;41(2):415-21.
10. da Cunha RS, Amorim KS, Gercina AC, de Oliveira ACA, et al. Herbal medicines as anxiolytics prior to third molar surgical extraction. A randomized controlled clinical trial. Clin Oral Investig. Mar 2021;25(3):1579-1586.
11. de Alencar VM, Gonçalves RD, Cruz AA. Oral medication with diazepam or midazolam associated or not with clonidine for oculoplastic office surgery under local anesthesia. Ophthalmic Plast Reconstr Surg. 2010 Jul-Aug 2010;26(4):269-72.
12. de Morais HH, Barbalho JC, de Holanda Vasconcellos RJ, Landim FS, et al. Comparative study of hemodynamic changes caused by diazepam and midazolam during third molar surgery: a randomized controlled trial. Oral Maxillofac Surg. Sep 2015;19(3):267-73.
13. Dell'Olio F, Capodiferro S, Lorusso P, Limongelli L, et al. Light Conscious Sedation in Patients with Previous Acute Myocardial Infarction Needing Exodontia: An Observational Study. Cureus. Dec 30 2019;11(12):e6508.
14. Dellovo AG, Souza LMA, de Oliveira JS, Amorim KS, et al. Effects of auriculotherapy and midazolam for anxiety control in patients submitted to third molar extraction. Int J Oral Maxillofac Surg. May 2019;48(5):669-674.
15. Divinyi T, Perczel T, Barabás J, Andrássy B, et al. The effect of tofisopam (grandaxin) on driving ability of outpatients after oral surgical intervention. Ther Hung. 1983;31(1):19-23.
16. Erlandsson AL, Bäckman B, Stenström A, Stecksén-Blicks C. Conscious sedation by oral administration of midazolam in paediatric dental treatment. Swed Dent J. 2001;25(3):97-104.
17. Frojo G, Dotson A, Christopher K, Kaswan S, et al. Facelift Performed Safely With Local Anesthesia and Oral Sedation: Analysis of 174 Patients. Aesthet Surg J. 04 08 2019;39(5):463-469.
18. Gatti JE. Oral sedation allows for comfort and amnesia during office surgery. Ann Plast Surg. May 2000;44(5):502-7.
19. Harel M, Shalom A, Frand J, Leibou L. Safety of Premedication with Oral Midazolam before Rhinoplasty as Indicated by Intraoperative Levels of Blood Oxygen Saturation. Isr Med Assoc J. Nov 2019;21(11):743-746.
20. Heine GH, Weindler J, Gabriel HH, Kindermann W, et al. Oral premedication with low dose midazolam modifies the immunological stress reaction after the setting of retrobulbar anaesthesia. Br J Ophthalmol. Aug 2003;87(8):1020-4.
21. Kiefer RT, Weindler J, Ruprecht KW. The endocrine stress response after oral premedication with low-dose midazolam for intraocular surgery in retrobulbar anaesthesia. Eur J Ophthalmol. 1998 Oct-Dec 1998;8(4):239-45.
22. Kontinen VK, Maunuksela EL, Sarvela J. Premedication with sublingual triazolam compared with oral diazepam. Can J Anaesth. Sep 1993;40(9):829-34.
23. Kumar A, Tandon OP, Bhattacharya A, Bose S, et al. Recovery from pre-operative sedation with clonidine--brain stem auditory evoked response. Anaesthesia. Jun 1994;49(6):533-7.
24. Laube T, Krohner H, Franke GH, Brockmann C, et al. Clorazepate dipotassium versus midazolam for premedication in clear corneal cataract surgery. J Cataract Refract Surg. Oct 2003;29(10):1956-61.
25. Lindemann M, Reader A, Nusstein J, Drum M, et al. Effect of sublingual triazolam on the success of inferior alveolar nerve block in patients with irreversible pulpitis. J Endod. Oct 2008;34(10):1167-70.
26. Luhmann JD, Kennedy RM, Porter FL, Miller JP, et al. A randomized clinical trial of continuous-flow nitrous oxide and midazolam for sedation of young children during laceration repair. Ann Emerg Med. Jan 2001;37(1):20-7.
27. Okcu KM, Guner Y, Aydintug YS, Gunaydin Y, et al. Evaluation of Oral or Rectal Midazolam As Conscious Sedation for Pediatric Patients in Oral Surgery. Military Medicine 2004;169(4):270-273.
28. O'Boyle CA, Harris D, Barry H. Sedation in outpatient oral surgery. Comparison of temazepam by mouth and diazepam i.v. Br J Anaesth. Apr 1986;58(4):378-84.
29. O'Boyle CA, Harris D, Barry H, McCreary C, et al. Comparison of midazolam by mouth and diazepam i.v. in outpatient oral surgery. Br J Anaesth. Jun 1987;59(6):746-54.
30. O'Boyle CA, Barry H, Fox E, McCreary C, et al. Controlled comparison of a new sublingual lormetazepam formulation and i.v. diazepam in outpatient minor oral surgery. Br J Anaesth. Mar 1988;60(4):419-25.
31. O'Boyte CA, Harris D, Barry H, Cullen JH. Differential effect of benzodiazepine sedation in high and low anxious patients in a "real life" stress setting. Psychopharmacology (Berl). 1986;88(2):226-9.
32. Otley CC, Nguyen TH, Phillips PK. Anxiolysis with oral midazolam in pediatric patients undergoing dermatologic surgical procedures. J Am Acad Dermatol. Jul 2001;45(1):105-8.
33. Ravitskiy L, Phillips PK, Roenigk RK, Weaver AL, et al. The use of oral midazolam for perioperative anxiolysis of healthy patients undergoing Mohs surgery: conclusions from randomized controlled and prospective studies. J Am Acad Dermatol. Feb 2011;64(2):310-22.
34. Rodrigo MR, Cheung LK. Oral midazolam sedation in third molar surgery. Int J Oral Maxillofac Surg. Jun 1987;16(3):333-7.
35. Romano MM, Soares MS, Pastore CA, Tornelli MJ, et al. A study of effectiveness of midazolam sedation for prevention of myocardial arrhythmias in endosseous implant placement. Clin Oral Implants Res. Apr 2012;23(4):489-95.
36. Salonen M, Forssell H, Lehmijoki O, Kaila T, et al. A comparison of two sedative premedications for minor oral surgery under local anaesthesia. Int J Oral Maxillofac Surg. Aug 1989;18(4):202-5.
37. Shanmugaavel AK, Asokan S, Baby JJ, Priya G, et al. Comparison of Behavior and Dental Anxiety During Intranasal and Sublingual Midazolam Sedation - A Randomized Controlled Trial. J Clin Pediatr Dent. 2016;40(1):81-7.
38. Studer FR, Grätz KW, Mutzbauer TS. Comparison of clonidine and midazolam as anxiolytic premedication before wisdom tooth surgery: a randomized, double-blind, crossover pilot study. Oral Maxillofac Surg. Dec 2012;16(4):341-7.
39. Thom A, Sartory G, Jöhren P. Comparison between one-session psychological treatment and benzodiazepine in dental phobia. J Consult Clin Psychol. Jun 2000;68(3):378-87.
40. van der Bijl P, Roelofse JA, Joubert JJ. Comparison of sublingual lorazepam with intramuscular diazepam as sedatives during oral surgery. J Oral Maxillofac Surg. Jul 1988;46(7):559-68.
41. Wigmore W, Rhodes S, Thompson J, Fell D, et al. Sedation for Day Care Cataract Surgery. Eur J Implant Ref Surg. Sept 1992; 4(3): 168-72.
42. Wilson KE, Girdler NM, Welbury RR. A comparison of oral midazolam and nitrous oxide sedation for dental extractions in children. Anaesthesia. Dec 2006;61(12):1138-44.
43. Wilson KE, Welbury RR, Girdler NM. A randomised, controlled, crossover trial of oral midazolam and nitrous oxide for paediatric dental sedation. Anaesthesia. Sep 2002;57(9):860-7.

**Table S1, Newcastle-Ottawa scoring for each article**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Author/Year** | **Selection (max 4)** | **Comparability (max 2)** | **Outcome/ exposure (max 3)** | **Total score (max 9)** |
| Aeschliman SD 2003 | 3 | 2 | 3 | 8 |
| Aydintug YS 2004 | 3 | 0 | 3 | 6 |
| Beer GM 2000 | 3 | 2 | 3 | 8 |
| Berthold CW 1999 | 3 | 2 | 2 | 7 |
| Bezalel SA 2020 | 4 | 2 | 2 | 8 |
| Boezaart AP 1998 | 2 | 1 | 3 | 6 |
| Butz DR 2016 | 3 | 0 | 2 | 5 |
| Cagiran E 2010 | 3 | 2 | 3 | 8 |
| Chen M 2015 | 3 | 2 | 3 | 8 |
| da Cunha RS 2020 | 3 | 2 | 3 | 8 |
| de Alencar VM 2010 | 3 | 0 | 3 | 6 |
| de Morais HHA 2014 | 3 | 0 | 3 | 6 |
| Dell'Olio F 2019 | 3 | 0 | 2 | 5 |
| Dellovo AG 2019 | 3 | 2 | 3 | 8 |
| Divinyi T 1983 | 2 | 0 | 3 | 5 |
| Erlandsson AL 2001 | 2 | 0 | 2 | 4 |
| Frojo G 2019 | 3 | 0 | 2 | 5 |
| Gatti JE 2000 | 3 | 0 | 3 | 6 |
| Harel M 2019 | 3 | 0 | 1 | 4 |
| Heine GH 2003 | 2 | 2 | 3 | 7 |
| Kiefer RT 1998 | 2 | 2 | 3 | 7 |
| Kontinen VK 1993 | 3 | 2 | 3 | 8 |
| Kumar A 1994 | 2 | 2 | 3 | 7 |
| Laube T 2003 | 3 | 2 | 3 | 8 |
| Lindemann M 2008 | 3 | 2 | 3 | 8 |
| Luhmann JD 2001 | 2 | 2 | 2 | 6 |
| O'Boyle CA 1986 | 3 | 2 | 2 | 7 |
| O'Boyle CA 1988 | 3 | 2 | 2 | 7 |
| O'Boyle CA 1986 | 3 | 2 | 2 | 7 |
| O'Boyle CA 1987 | 3 | 1 | 2 | 6 |
| Okcu KM 2004 | 2 | 0 | 3 | 5 |
| Otley CC 2001 | 2 | 0 | 3 | 5 |
| Ravitskiy L 2011 | 3 | 2 | 3 | 8 |
| Rodrigo MRC 1987 | 3 | 2 | 3 | 8 |
| Romano MM 2012 | 2 | 2 | 3 | 7 |
| Salonen M 1989 | 3 | 2 | 3 | 8 |
| Shanmugaavel AK 2016 | 2 | 1 | 3 | 6 |
| Studer FR 2012 | 2 | 2 | 3 | 7 |
| Thom A 2000 | 2 | 3 | 2 | 7 |
| Van Der Bijl P 1988 | 3 | 0 | 3 | 6 |
| Wigmore W 1992 | 3 | 2 | 3 | 8 |
| Wilson KE 2006 | 2 | 2 | 3 | 7 |
| Wilson KE 2002 | 3 | 2 | 3 | 8 |