Literature Search Results from PubMed at the US NLM

Scientific Investigation Committee 2018

Literature Abstract Review 2018

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The Committee



David Hancock





Warren Jesek



Jack Marincel

Aad Zonnenberg, Chair



Michael Radu



Jette Holbrook



Tim Walker



- National Library of Medicine)
- * Parameters of the search for new articles: from 2016/11/01 to 2017/11/01
- Joint Disorders"[mh] OR tmd OR ((temporomandibular OR craniomandibular) AND "therapy" [Subheading]) Filters: English, Dental journals.

* Search results from NCBI (National Center for Biotechnology Information) at the NLM (US

* Search strategy HQ (PubMed): ("centric relation"[mh] OR "dental occlusion"[mh] OR dental occlusion OR ((bite OR mouth OR night OR occlusal) AND (guard* OR splint*)) OR "Occlusal Adjustment"[mh]) OR (occlusal AND (adjustment OR equilibration)) OR "Temporomandibular (disorder* OR dysfunction* OR disfunction*))) OR "Tooth Wear"[mh] OR ((tooth OR teeth OR dental) AND (abrasion OR attrition OR erosion OR abfraction OR grind*)) OR ((sleep OR nocturnal) AND bruxism*) OR "Sleep Bruxism"[mh]) AND (manag* OR treat* OR therap* OR



- * Search yielded 1067 articles.
- named all items (AI)
- * Out of 185 HQ records no abstracts available: 1, 3, 42, 137.
- 117, 127, 144, 157, 181.

* The search was divided in 185 high quality records (HQ) and 882 records

* Free HQ articles (open access): 2, 9, 10, 13, 14, 21, 25, 26, 27, 28, 36, 37, 39, 41, 44, 49, 50, 52, 53, 60, 61, 63, 64, 73, 74, 83, 85, 89, 92, 93, 96, 100, 106, 113, 116,

- * Search 882 All items yielded 270 Open Access articles
- 965, 970, 972, 978, 1001, 1007, 1014, 1033, 1943, 1045, 1049, 1051, 1067.

* Free AI articles (open access): 2, 3, 4, 5, 6, 8, 9, 10, 17, 18, 19, 21, 23, 24, 28, 29, 30, 37, 38, 45, 48, 52, 53, 55, 58, 59, 61, 62, 73, 75, 76, 82, 83, 84, 89, 92, 98, 104, 107, 108, 109, 125, 126, 127, 129, 134, 136, 137, 138, 140, 141, 142, 143, 151, 152, 155, 157, 165, 171, 172, 179, 185, 188, 189, 195, 196, 199, 201, 202, 215, 216, 217, 219, 220, 223, 227, 228, 229, 231, 232, 236, 243, 244, 245, 262, 266, 269, 273, 275, 278, 279, 280, 283, 284, 285, 286, 289, 298, 304, 305, 306, 318, 329, 336, 337, 349, 361, 369, 370, 371, 372, 374, 375, 379, 380, 381, 383, 384, 395, 397, 399, 405, 408, 409, 410, 411, 413, 414, 416, 422, 425, 426, 428, 435, 442, 446, 447, 448, 449, 450, 455, 456, 463, 465, 467, 472, 473, 482, 483, 491, 492, 493, 495, 498, 501, 506, 511, 513, 514, 515, 520, 532, 535, 541, 543, 544, 548, 549, 555, 557, 558, 559, 560, 561, 573, 574, 575, 585, 586, 587, 589, 593, 595, 597, 600, 602, 604, 613, 628, 632, 638, 639, 640, 641, 644, 645, 646, 657, 659, 660, 662, 668, 680, 681, 682, 684, 685, 705, 706, 707, 708, 710, 713, 717, 718, 719, 721, 725, 732, 736, 740, 742, 743, 744, 745, 752, 763, 764, 765, 766, 768, 779, 780, 781, 782, 783, 788, 789, 794, 795, 796, 798, 803, 809, 851, 852, 853, 863, 864, 868, 870, 915, 923, 928, 934, 935, 940,

- * Articles from CRANIO: 37
- * HQ: 179.
- 1042.
- * Articles from JPD: 22
- * HQ: 94, 141, 157.

* AI: 67, 104, 130, 214, 218, 238, 287, 346, 373, 497, 510, 550, 620, 631, 648, 692, 848, 907, 916, 946, 948, 989, 993, 998, 1008, 1019, 1020, 1022, 1022, 1024, 1025, 1026, 1027, 1028, 1029,

* AI: 78, 106, 293, 293, 294, 401, 450, 509, 536, 716, 820, 821, 846, 928, 979, 986, 987, 1010, 1011.



Levels of evidence

- 1. Meta-analysis/Systematic Review of RCTs
- 2. Randomized Controlled Trials (RCTs)
- 3. Controlled Clinical Trials (without randomization)
- 4. Case-Controlled/Cohort Studies
- 5. Narrative/Literature Review of Qualitative/Descriptive Studies
- 6. Qualitative or Descriptive Studies
- 7. Opinion/Editorial/Case Report/Product/Animal/In vitro/Finite Element

Levels of evidence (HQ)

- 1. Meta-analysis/Systematic Review of RCTs (46)
- 2. Randomized Controlled Trials (RCTs) (23)
- 3. Controlled Clinical Trials (without randomization) (10)
- 4. Case-Controlled/Cohort Studies (18)
- 5. Narrative/Literature Review of Qualitative/Descriptive Studies (12) 6. Qualitative or Descriptive Studies (10)
- 7. Opinion/Editorial/Case Report/Product/Animal/In vitro/Finite Element (12)



Levels of evidence (All items)

- 1. Meta-analysis/Systematic Review of RCTs (12)
- 2. Randomized Controlled Trials (RCTs) (11)
- 3. Controlled Clinical Trials (without randomization) (0)
- 4. Case-Controlled/Cohort Studies (46)
- 5. Narrative/Literature Review of Qualitative/Descriptive Studies (67) 6. Qualitative or Descriptive Studies (44)
- 7. Opinion/Editorial/Case Report/Product/Animal/In vitro/Finite Element (14)



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Home > Scientific Research

The AES Scientific Investigation Committee is always looking for worthy research projects to support. For further information please contact committee chair Dr. Aad Zonnenberg at adriaanzonnenberg@me.com

> The AES Scientific Investigation Committee completes a Scientific Literature Review annually. The following links are available for your perusal:

> > AES 2016 Literature Search Results AES Lit Review Abstracts Presentation 2016-17

AES 2015-16 Scientific Literature Review Article Links

AES Literature Review 2014-15 & Abstracts

AES Literature Search - Abstract Review 2013 AES 2012 Literature Search Results AES 2012 Literature Search





Final instructions

Click AES 2017 Literature Search Results
This literature search has been divided in

185 high quality records (HQ)
1067 all items records (AI), example # 56

This presentation mainly contains HQ records

* AES Lit Review Abstracts Presentation 2017-2018 contains this presentation

- A neview on Detection and Treatment Methods of Sleep Aprea.
- 53. Jayaraj R, Mohan J, Kanagasabai A. J Clin Diagn Res. 2017 Mar;11(3):VE01-VE03. doi: 10.7860/JCDR/2017/24129.9535. Epub 2017 Mar 1. Review. PMID: 28511486 Free PMC Article
- 54. Systematic Review and Meta-analysis.

Gilheaney O, Zgaga L, Harpur I, Sheaf G, Kiefer L, Béchet S, Walshe M. Dysphagia. 2017 May 16. doi: 10.1007/s00455-017-9808-0. [Epub ahead of print] Review. PMID: 28508937

- Pathogenesis and FDG-PET/CT findings of Epstein-Barr virus-related lymphoid neoplasms.
- Toriihara A, Nakajima R, Arai A, Nakadate M, Abe K, Kubota K, Tateishi U. 55. Ann Nucl Med. 2017 Jul;31(6):425-436. doi: 10.1007/s12149-017-1180-5. Epub 2017 May 11. Review. PMID: 28497429
 - Temporomandibular disorders and whiplash injury: a narrative review. Landzberg G, El-Rabbany M, Klasser GD, Epstein JB. Oral Surg Oral Med Oral Pathol Oral Radiol. 2017 Aug;124(2):e37-e46. doi: 10.1016/j.cooo.2017.03.001. Epub 2017 Mar 10. Review. PMID: 28483470
- Treatment of Isolated Zygomatic Arch Fracture: Improved Outcomes with External Splinting. 57. Hindin DI, Muetterties CE, Mehta C, Boukovalas S, Lee JC, Bradley JP. Plast Reconstr Surg. 2017 May; 139(5):1162e-1171e. doi: 10.1097/PRS.0000000000003281.

https://www.ncbi.nim.nih.gov/pubmed

56.

The Prevalence of Oropharyngeal Dysphagia in Adults Presenting with Temporomandibular Disorders Associated with RI





Format: Abstract +

Oral Surg Oral Med Oral Pathol Oral Radiol. 2017 Aug;124(2):e37-e46. doi: 10.1016/j.ocoo.2017.03.001. Epub 2017 Mar 10.

Temporomandibular disorders and whiplash injury: a narrative review.

Landzberg G¹, El-Rabbany M², Klasser GD³, Epstein JB⁴.

Author information

Abstract

OBJECTIVES: The objective of this study was to conduct a review investigating the relationship between temporomandibular disorders (TMDs) and whiplash injuries (WIs).

STUDY DESIGN: The authors conducted a search of PubMed/Medline, Cochrane Database, and EMBASE for studies discussing the prevalence, incidence, severity, treatment, and prognosis of TMDs following WIs. English language studies published between January 2010 and March 2016 were included. Study quality was assessed by using the Ottawa-Newcastle scale.

RESULTS: Eight studies investigating TMDs in patients with histories of WI were included. These studies reported associations between WIs and TMDs and an increase in symptom severity among patients with TMDs and a history of WIs. Additionally, patients with TMD and trauma histories display more severe subjective, objective, and psychological dysfunction compared with typical patients with TMDs. This results in poorer treatment outcomes.

CONCLUSIONS: These findings highlight the need for early evaluation of patients with WI for TMDs and for a multidisciplinary approach to their management.

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PMID: 28483470 DOI: 10.1016/j.oooc.2017.03.001 [Indexed for MEDLINE]



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Review Temporomandibular disorder pain after whiplash trauma: a systema [J Orofac Pain. 2013]

Review Whiplash-associated disorders and temporomandibular sym [Quintessence Int. 2011]

The prevalence of temporomandibular disorders in patients with late whit [J Am Dent Assoc. 2013]

Review [The relationship between whiplash injury and temporomandibular jc [Harefuah. 2013]

Related information MedGen



- * Ref. # 13. Systematic Review (according PRISMA guidelines)
- Clark J, Nijs J, Yeowell G, Goodwin PC. What are the predictors of altered central pain modulation chronic musculoskeletal pain populations? Pain Paysician 2017; 20: 487-500.
- * Premorbid and acute stage high sensory sensitivity and/or somatization are the strongest predictors of altered central pain modulation in chronic musculoskeletal pain to date. Early identification of people at risk of developing chronic pain with altered central pain modulation may guide clinicians in appropriate management, diminishing the burden of persistent pain.



- * Ref. # 14. Descriptive Review.
- Monaco A, Cattaneo R, Marci MC, Pietropaoli D, Ortu E. Central Sensitization-Based Classification for Temporomandibular Disorders: A Pathogenetic Hypothesis. Pain Res Manag 2017, Epub 2017 Aug 28.
- * Preliminary data on sensory, ultra low frequency transcutaneous electrical nerve stimulation (ULFTENS) show it is a reliable tool for the study of central and autonomic pathways in TMD. An alternative classification the DC/TMD based on the presence of Central Sensitization and on individual response to sensory ULFTENS is proposed.



- * Ref. # 59. Meta-analysis.
- * Al-Moraissi EA, Wolford LM, Perez D, Laskin DM, Ellis E 3rd. Does Orthognathic Surgery Cause or Cure Temporomandibular Disorders? 1835-47.
- * Orthognathic surgery caused a decrease in TMD symptoms for many smaller group of patients who were asymptomatic before surgery.

A Systematic Review and Meta-Analysis. J Oral Maxillofac Sure 2017; 75:

patients who had symptoms before surgery, but it created symptoms in a

- * Ref. # 185. Qualitative study.
- Guided by an Occlusal Splint in Management of Myofascial Pain: A Prospective Clinical Trial. Open Dent J 2017; 11: 301-11.
- this procedure, making it an excellent technique for clinicians.

* Fernandez Gonzalez FJ, Cabero Lopez J, et al. Efficacy of Selective Grinding

* All facial types, specially the hyperdivergent face type, showed a reduction in condylar displacement (CD) and less craniomandibular symptoms using

- * Ref. # 74. (Retrospective) Cohort study about DDwoR (closed lock)
- * Yang JW, Huang YC, Wu SL, Ko SY, Tsai CC. Clinical efficacy of a centric relation occlusal splint and intra-articular liquid phase concentrated growth factor injection for the treatment of temporomandibular disorders. Medicine Baltimore 2017; 96: e6302.
- After CentricRelationOcclusalSplint treatment, except for the joint crepitus sound, which failed to achieve significant improvement (P>0.05), other symptoms, such as DOM, TMD-associated headache, myofascial pain with referral, TMJ arthralgia, and MIO, all achieved statistically significant improvements (P<0.05).



- * Ref. # 85. Systematic Review of Qualitative Studies.
- * Caruso S, Storti E, Nota A, Esani S, Gatto R. Temporomandibular Joint
- * The main topics treated in the studies are the volume and surface of the mandibular condyle, the bone changes on cortical surface, the facial Additional studies will be necessary in the future, constructed with longitudinal methodology, especially in growing subjects.

Anatomy Assessed by CBCT Images. Biomed Res Int 2017; Epub 2017.

asymmetry, and the optimum position of the condyle in the glenoid fossa.

- * Ref. # 94. Systematic Review of Qualitative Studies
- * Donovan TE, Marzola R, Murphy KR, Cagna DR, Eichmiller F, McKee JR, Metz JE, Albouy JP. Annual review of selected scientific literature: Report of the committee on scientific investigation of the American Academy of Restorative Dentistry.
- * Analysis of the scientific literature published in 2015 is divided into 7 sections, dental materials, periodontics, prosthodontics, occlusion and temporomandibular disorders, sleep-disordered breathing, cariology, and implant dentistry.

- Lipoprotein Function in High-Cardiovascular-Risk Individuals: A Randomized Controlled Trial. Circulation 2017; 135: 633-43.
- oil, improved HDL atheroprotective functions in humans.

* Ref. # 101. Randomized Controlled Trial. (though not indicated, it is free)

* Hernaez A, Castaner O, et al. Mediterranean Diet Improves High-Density

* The mediterranean diet (TMD), especially when enriched with virgin olive

- * Ref. # 127. Systematic Review.
- Patients with Subjective Tinnitus: A Systematic Review.

* Michiels S, Naessens S, et al. The Effect of Physical Therapy Treatment in

* Despite the methodological issues in the included studies and the consequent low quality evidence, it is noteworthy that all included studies show positive treatment effects. Before recommendations can be made, these results need to be confirmed in larger, high quality studies, using unambiguous inclusion criteria, state-of-the-art treatment, and high quality outcome measures.



- * Ref. # 129. Systematic Review. (Cochrane Database Systematic Review) * Weston P, Yaziz YA, Moles DR, Needleman I. WITHDRAWN: Occlusal interventions for periodontitis in adults.
- * There is only one randomised trial that has addressed this question. The data from this study are inconclusive. We therefore conclude there is no evidence for or against the use of occlusal interventions in clinical practice. This question can only be addressed by adequately powered bias-protected randomised controlled trials.



- * Ref. # 169. Randomized Clinical Trial
- * Omure H, Kanematsu-Hashimoto K, et al. Evaluation of a Proton Pump 1479-86.
- * Since the clinical application of a proton pump inhibitor (PPI) for sleep reflux disease treatment for SB patients.

Inhibitor for Sleep Bruxism: A Randomized Clinical Trial. J Dent Res 2016; 95:

bruxism (SB) treatment should remain on hold at present, the results of this trial highlight the potential application of pharmacological gastroesophageal



- * Articles about T-scan. Occlusal adjustment new style. * Ref. # 497, 907, 979, 998, 1019, 1042 * JPD: 979
- * CRANIO: 497, 907, 998, 1019, 1042
- and more predictable (personal remark from your presenter).

* A breakthrough in occlusal adjustment: technic helps to make the work easier



Choice from SIC Members

* High quality articles: 56, 106, 117.
* All items: 406, 659, 770.

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NOW, ACCESS THIS INFORMATION, USE IT, AND SHARE IT THANK YOU FOR DONATING TO THE SCIENTIFIC INVESTIGATION COMMITTEE. WE WILL INVEST IT WISELY IN OUR FUTURE