



Short Commentary

Ear Symptoms and Malocclusion

Kengo Torii*

Department of Comprehensive Dental Care Unit, School of Life Dentistry,
Nippon Dental University, Tokyo, Japan

Short Commentary

Since Dr. Myrhaug described the relationship between ear symptoms and bite anomalies [1], we have reported some cases of aural symptoms related to dental occlusion [2,3-5]. He didn't describe the detail about the bite anomalies, because he wasn't a dental practitioner, but medical.

First of all, we reported tinnitus related to occlusal discrepancy [2]. The occlusal discrepancy means that habitual occlusal position isn't coincident with muscular position. The habitual occlusal position is obtained by voluntary jaw closing while in an upright position. The muscular position is obtained during voluntary jaw closing, while in an upright position and after wearing an anterior bite plate for a short period of time [6]. These reported tinnitus cases were all unilateral symptoms. This means that unilateral deviation of the mandible might cause the tension of the masticatory muscles and the tension in turn might cause tinnitus with the spasmodic synkinesis of the tensor tympani and the stapedius [2]. Secondly, we reported two vertigo cases diagnosed as having Ménière's disease [3,4].

*Corresponding author: Kengo Torii, Department of Comprehensive Dental Care Unit, School of Life Dentistry, Nippon Dental University, Tokyo, Japan, Tel: 054-247 2966; E-mail: wbs89508@mail.wbs.ne.jp

Citation: Torii K (2019) Ear Symptoms and Malocclusion. J Otolaryng Head Neck Surg 5: 029.

Received: April 26, 2019; **Accepted:** May 02, 2019; **Published:** May 09, 2019

Copyright: © 2019 Torii K. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

In these cases, a semi rotatory shift from the muscular position to the habitual position was found which is frequent, short and cyclically repeated in mastication, would be recognized as the rotatory movement and would cause nystagmus, thereby giving the patient had an illusion of rotation and resulting in vertigo. Finally, we reported a case of sudden deafness [5]. In this case, the strong tension of masticatory muscles induced with the occlusal discrepancy between the habitual occlusal position and the muscular position might cause the tensor tympani and the stapedius tension which might restrict the movement of auditory ossicles, causing low-frequency hearing loss. Moreover, the tensor tympani tension might cause the contraction of the semicircular muscle tensor tympani that resulted in ear fullness.

Dr. Myrhaug described that the issue is an oto-dental syndrome which demands close co-operation between medical and dental practitioners [1].

References

1. Myrhaug H (1964) The incidence of ear symptoms in cases of malocclusion and temporomandibular joint disturbances. Br J Oral Surg 2: 28-32.
2. Torii K (2011) Tinnitus and temporomandibular disorders: In: Fayed B Jr (eds.). Up to Date on Tinnitus. Intech, Rijeka, Pg no: 15-32.
3. Torii K, Chiwata I (2007) Occlusal management for a patient with aural symptoms of unknown etiology: A case report. J Med Case Rep 1: 85.
4. Torii K (2016) Occlusal analysis and management of a patient with vertigo: A case report. Clin Med Invest 2:1-3.
5. Torii K (2019) Occlusal analysis and management for a patient with low-frequency hearing loss and ear fullness: A case report. Clin Med Invest 4: 1-3.
6. Torii K, Chiwata I (2005) Relationship between habitual occlusal position and flat bite plane induced occlusal position in volunteers with and without temporomandibular joint sounds. Cranio 23: 16-21.



Journal of Anesthesia & Clinical Care
Journal of Addiction & Addictive Disorders
Advances in Microbiology Research
Advances in Industrial Biotechnology
Journal of Agronomy & Agricultural Science
Journal of AIDS Clinical Research & STDs
Journal of Alcoholism, Drug Abuse & Substance Dependence
Journal of Allergy Disorders & Therapy
Journal of Alternative, Complementary & Integrative Medicine
Journal of Alzheimer's & Neurodegenerative Diseases
Journal of Angiology & Vascular Surgery
Journal of Animal Research & Veterinary Science
Archives of Zoological Studies
Archives of Urology
Journal of Atmospheric & Earth-Sciences
Journal of Aquaculture & Fisheries
Journal of Biotech Research & Biochemistry
Journal of Brain & Neuroscience Research
Journal of Cancer Biology & Treatment
Journal of Cardiology: Study & Research
Journal of Cell Biology & Cell Metabolism
Journal of Clinical Dermatology & Therapy
Journal of Clinical Immunology & Immunotherapy
Journal of Clinical Studies & Medical Case Reports
Journal of Community Medicine & Public Health Care
Current Trends: Medical & Biological Engineering
Journal of Cytology & Tissue Biology
Journal of Dentistry: Oral Health & Cosmesis
Journal of Diabetes & Metabolic Disorders
Journal of Dairy Research & Technology
Journal of Emergency Medicine Trauma & Surgical Care
Journal of Environmental Science: Current Research
Journal of Food Science & Nutrition
Journal of Forensic, Legal & Investigative Sciences
Journal of Gastroenterology & Hepatology Research
Journal of Gerontology & Geriatric Medicine
Journal of Genetics & Genomic Sciences
Journal of Hematology, Blood Transfusion & Disorders
Journal of Human Endocrinology
Journal of Hospice & Palliative Medical Care
Journal of Internal Medicine & Primary Healthcare
Journal of Infectious & Non Infectious Diseases
Journal of Light & Laser: Current Trends
Journal of Modern Chemical Sciences
Journal of Medicine: Study & Research
Journal of Nanotechnology: Nanomedicine & Nanobiotechnology
Journal of Neonatology & Clinical Pediatrics
Journal of Nephrology & Renal Therapy
Journal of Non Invasive Vascular Investigation
Journal of Nuclear Medicine, Radiology & Radiation Therapy
Journal of Obesity & Weight Loss
Journal of Orthopedic Research & Physiotherapy
Journal of Otolaryngology, Head & Neck Surgery
Journal of Protein Research & Bioinformatics
Journal of Pathology Clinical & Medical Research
Journal of Pharmacology, Pharmaceutics & Pharmacovigilance
Journal of Physical Medicine, Rehabilitation & Disabilities
Journal of Plant Science: Current Research
Journal of Psychiatry, Depression & Anxiety
Journal of Pulmonary Medicine & Respiratory Research
Journal of Practical & Professional Nursing
Journal of Reproductive Medicine, Gynaecology & Obstetrics
Journal of Stem Cells Research, Development & Therapy
Journal of Surgery: Current Trends & Innovations
Journal of Toxicology: Current Research
Journal of Translational Science and Research
Trends in Anatomy & Physiology
Journal of Vaccines Research & Vaccination
Journal of Virology & Antivirals
Archives of Surgery and Surgical Education
Sports Medicine and Injury Care Journal
International Journal of Case Reports and Therapeutic Studies

Submit Your Manuscript: <http://www.heraldopenaccess.us/Online-Submission.php>