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Content
Welcome Note From the Chairperson of KPPIKG 2016........................................................................................... iii
Note from the Editors................................................................................................................................................ IV

SECTION ONE: ORIGINAL ARTICLE
1. PREVENTIVE AND SELF CARE TRAINING IN PREGNANT WOMEN TO IMPROVES KNOWLEDGE, ATTITUDE, AND PRACTICE
   Anne Agustina Suwargiani, Netty Suryanti, Asty Samiaty Setiawan................................................................. 1

2. THE EFFECT OF STRAWBERRY ON COLOR CHANGING OF TOOTH WITH EXTRINSIC STAIN
   Ita Astit Karrnawati, Ita Yulita, Rahaju Budiarti.................................................................................................. 9

3. COLOR CHANGES OF MICROHYBRID RESIN COMPOSITE AFTER BLEACHED WITH HYDROGEN PEROXIDE
   Astrid Yudhit, Kholidina Imanda Harahap, Sefty Aryani Harahap........................................................................ 15

4. SURFACE HARDNESS OF HIGH COPPER DENTAL AMALGAM AFTER IMMERSED IN FERMENTED MILK
   Kholidina. Harahap, Rusfian, Aflah Triana........................................................................................................... 19

5. ANTIDACTERIAL EFFECT OF RADISH TUBERS (Raphanus sativus L.) ON F. nucleatum AND P. gingivalis AS AN ALTERNATIVE MATERIAL FOR ROOT CANAL MEDICAMENT (in-vitro study)
   Cut Nurliza, Trimuni Abidin............................................................................................................................... 23

6. POOR ORAL HEALTH IS RELATED TO CARDIOVASCULAR DISEASES
   Bramma Kiswanjaya, Trelia Boel, Menik Priminiarti, Hanna.B. Iskandar.............................................................. 29

7. INCIDENCE OF PARESTHESIA FOLLOWING THIRD MOLAR MANDIDULAR SURGERY IN RSGMP FKGUI ON PERIOD JUNE-AUGUST 2015
   Egy P Lenggogeni, Vera Julia, Rachmitha Anne.................................................................................................. 33

8. CLINICAL EVALUATION OF 20 AMELOBLASTOMA PATIENTS POST PARTIAL MANDIDULAR RESECTION WITH RECONSTRUCTION PLATE (Research Paper)
   Santi Anggraini, Corputty Johan EM, Lilies D. Sulistyani..................................................................................... 39

9. RELATIONSHIP BETWEEN ANGLE’S CLASSIFICATION OF MALOCCLUSION AND FACIAL PROFILES PATTERN
   Rudi S Darwis, Hillda Herawati, Rina Putt; Noer Fadilah, Cindy Anggadini.......................................................... 47

10. SALIVARY PH AND BACTERIAL COUNT ASSESMENT IN CHILDREN WITH HIGH CARIES RISK
    Riana Wardani, Cucu Zuhaidah, Asty Samiaty...................................................................................................... 51

11. EFFECT OF POSITIVE IMAGES "VISIT TO THE DENTIST' TOWARDS ANXIETY (STUDY OF SALIVARY ALPHA AMYLASE)
    Adina Novia, Margaretha Suharsini, Mochamad Fahlevi Rizal............................................................................... 55

12. EFFECTIVENESS OF LIME (CITRUS AUNRANTIFOUA) EXTRACT IN INHIBITING DENTAL PLAQUE FORMATION FOR EARLY CHILDHOOD CARIES"
    Fajriani, Resky Mustafa..................................................................................................................................... 59

13. RELATIONSHIP BETWEEN EATING FREQUENCY AND EARLY CHILDHOOD CARIES (ECC) OCCURRENCE IN ENDEMIC AREA OF MALNUTRITION STATUS
    Pindobilowo, Febriana Setiawati, Rika Rina Darwita.......................................................................................... 63

14. RADIOGRAPHIC POSITION OF MENTAL FORAMEN IN BATAKAND MINANGKABAU STUDENTS IN FK UNSRI
    Putri Elya Lestari, Shanty Chairani, Erwan Naufal.............................................................................................. 67
SECTION TWO: CASE REPORT

1. DELAYED TOOTH REPLANTATION AFTER TRAUMATIC AVULSION: A CASE REPORT
   Emmanuella G. Untoro, Bambang Nursasongko

2. ENDODONTIC TREATMENT ON MAXILLARY THIRD MOLAR WITH LIMITED MOUTH OPENING
   Ridzki Ridhalaksani, Kamizar

3. REMOVAL OF METAL POST USING ULTRASONIC DEVICE IN NON-SURGICAL RETREATMENT PROCEDURE: A CASE REPORT
   Dian S. Nasution, Anggraini Margono

4. ROOT CANAL TREATMENT OF NON VITAL TOOTH WITH DISCOLORATION AND DIASTEMA USING INDIRECT COMPOSITE VENEER
   Syahdini Meriana, Tien Suwartini, Aryadi Subrata

5. INDIRECT COMPOSITE RESIN RESTORATION IN ENDOSONTICALLY TREATED POSTERIOR TEETH
   Melaniwati, Juantia A Gunawan, Ade Prijanti

6. ENDODONTIC TREATMENT FOR ANOMALIES TEETH
   Nevi Yanti, Fitri Yunita, Trimumi Abidin

7. RECURRENTRAIOURAL HERPES: THERAPEUTIC CHALLENGE IN DIFFERENT IMMUNE STATUS PATIENTS (Report of Two Cases)
   Ahmad Ronal, Harum Sasanti

8. THE COMPLEXITY IN TREATING NECROTIZING ULCERATIVE ORAL LESIONS IN PEDIATRIC PATIENT WITH ACUTE LEUKEMIA
   Ambar Kusuma Astuti, Harum Sasanti Yudhyono

9. PREDISPOSING FACTORS OF RECALCITRANT ORAL LICHEN PLANUS EROSIIVE TYPE (A CASE REPORT)
   Fitriany Darwis, Afi Savitri Sarsito

10. NOMA-LIKE ORAL LESIONS INDUCED BY POLICRESULEN IN A PATIENT WITH MYELOFIBROSIS
    Widya Apsari, Harum Sasanti

11. DENTIST'S ROLE IN IMPROVING ORAL FUNCTION OF PATIENT WITH ACUTE MYELOID LEUKEMIA
    Dwi Ariani, Siti A. Pradono

12. ORAL CANDIDIASIS IN HIV+ PATIENT: CHALLENGE IN TEAMWORK MANAGEMENT
    Anzany Tania Dwi Putri, Felicia Paramita

13. MALPOSITION OF TEETH PREDISPOSED RECURRENT APHTHOUS STOMATITIS: NEED TO BE OBSERVED
    Helena Meyyulinar, Siti Aliyia Pradono

14. COMBINATION OF ARCH BAR A D QUICK FIX AS MAXILLOMANDIBULAR FIXATION IN THE ANGLE AND SYMPHISIS FRACTURE OF MANDIBLE (CASE REPORT)
    Siska Sutedja, Evy Eida Vitria

15. ADENOMATOID ODONTOGENIC TUMOR OF THE MANDIBLE MIMICKING DENTIGEROUS CYST: A CASE REPORT
    Fiona Verisqa, Dwi Ariawan

16. MANAGEMENT OF SCHWANNOMA OF THE TONGUE (CASE REPORT)
    Bambang T. Susilo, Vera Julia

17. MANAGEMENT OF LOWER LIP MUCOCELES REMOVAL BY CARBON DIOXIDE (CO2) LASER: CASE REPORT
    Fredy Budhi Dharmawan, Rachmahtia Anne

18. SURGICAL MANAGEMENT OF MANDIBULAR ADENOMATOID ODONTOGENIC TUMOR: REPORT OF A RARE CASE
    Yus A. Putra Wibawa, Lilies Dwi Sulistyani
19. LIFE THREATENING ODONTOGENIC INFECTION
Hardi S Riyadi, Rachmita Anne

20. INFECTION ON LARGE ERUPTED COMPLEX ODONTOMA OF MANDIBLE: A RARE CASE
Yayan Amman, Vera Julia

21. MANAGEMENT OF RADICULAR CYST IN THE MAXILLA WITH SURGICAL ENUCLEATION:
A CASE REPORT
M Ramaditto R, Vera Julia, Benny S Latief

22. SURGICAL EXPOSURE OF IMPACTED MAXILLARY CENTRAL INCISOR WITH INVERTED
POSITION IN PRE-ORTHODONTIC TREATMENT: A CASE REPORT
R. Hari Triwijaya, Lilies Dwi Sulistyani

23. MARSUPIALIZATION IN PEDIATRIC RANULA
I1ham Ramadhan, Lilies. D. Sulistyani

24. SURGICAL MANAGEMENT OF AN IMPACTED MANDIBULAR THIRD MOLAR WITH
OROCUTANEOUS FISTULA: CASE REPORT
Riadin J. Patomo, Retnowati, Corputty Johan

25. MODIFIED SURGICAL TREATMENT OF HIGH BUCCAL FRENUM ATTACHMENT TO
IMPROVE PROSTHETIC STABILITY: A CASE REPORT
Yona One Sidarta, Fredy Mardiyan toro

26. THE PRINCIPLES OF SELECTING BIOPSY TECHNIQUE ON ORAL SOFT TISSUE
PATHOLOGY
Mohammad Farid Ratman, Rachmitha Anne

27. MANAGEMENT OF DENTOALVEOLAR TRAUMA WITH EYELET WIRE SPLINT IN 7 YEARS
OLD PATIENT: CASE REPORT
Tri H.W. Prasteyo, Dwi Ariawan

28. SURGICAL MANAGEMENT OF SUBMANDIBULAR GLAND SIALOLITHIASIS: A CASE
REPORT
Yohan E. Marpaung Benny S. Latief, Dwi Ariawan

29. DELAYED BLEEDING 30 DAYS AFTER REMOVAL OF IMPACTED MANDIBULAR
THIRD MOLAR
Nakul Uppal

30. REMOVAL OF IMPACTED THIRD MOLAR IN MAXILLARY SINUS ASSISTED BY
ENDOSCOPY (A CASE REPORT)
Oditya Hamzah, Nur Aini, Lilies D. Sulistyani, M. Syafrudin Hak

31. CASE REPORT: MAXILLARY & MANDIBULAR ORIF IN PATIENT WITH FRONTAL,
INFRAORBITAL, MAXILLA AND MANDIBLE FRACTURES
M. Zain Anggriadi, Pradono

32. THREE-DIMENSIONAL MODEL UTILIZATION FOR RECONSTRUCTION IN ORAL AND
MAXILLOFACIAL SURGERY: A CASE REPORT
Ista Damayanti, Vera Julia, Benny S. Latief, Dwi Ariawan

33. FOLLICULAR AMELOBLASTOMA: A CASE REPORT
Ira Suciati, Dwi Ariawan

34. MORTAL PULPOTOMY TREATMENT TO MAINTAIN DENTAL ARCH SPACE ON 8 YEARS
OLD PATIENT
Retno Oktasari, Sarworini B. Budiardjo

35. DE TAL TREATMENT FOR CEREBRAL PALSY’S PATIE T AGE II YEARS OLD
Berthaugi Ester Nurffaida Sirait, Margaretha Suharsini

36. MODIFIED OPEN COILED SPACE REGAINER FOR MESIAL DRIFTING OF TOOTH 36 IN A
7 YEARS OLD BOY (CASE REPORT)
Wahyu Rahdelita, Margaretha Suharsini

37. IDENTIFYING CLINICAL DIAGNOSIS OF AGGRESSIVE PERIODONTITIS CASES
Benso Sulijaya, Sri Lelyati Masulili, Robert Lessang, Siti Wuryan Prayitno, Agustine Irene Sukardi.

38. MANAGEMENT OF PERIODONTAL TISSUE DEFECT WITH REGENERATIVE THERAPY
Billy Martin, Yulianti Kemal, Felix Hartono
### SECTION THREE: LITERATURE REVIEW

1. **MEDICAL RECORD AS EVIDENCE AND LEGAL DEFENSE FOR DENTIST**
   Tjen Dravinne Winata, Irin Kirana ........................................................................................................ 247
2. **HOSPITALITY IN DENTAL CLINIC**
   Sri Rahayu, Wahyu Sulistiadi ................................................................................................................. 251
3. **MECHANISM OF MANY NATURAL MATERIALS AS MATERIAL OF EXTRACORONAL WHITENING: A BRIEF REVIEW**
   Meitsalisa S. Mardina, Meiny F. Amin ..................................................................................................... 255
4. **PROPER TIMING FOR DENTAL IMPLANT PLACEMENT: WHEN TO RUSH IT AND WHEN TO TAKE IT SLOW**
   Ferdinand Dino .............................................................................................................................................. 259
5. **TISSUE GRAFT FOR GINGIVAL RECESSION AND FURCATION INVOLVEMENT**
   Hendri Poemomo ............................................................................................................................................ 263
6. **CORTICOTOMY FOR ACCELERATING ORTHODONTIC TOOTH MOVEMENT**
   Angelique Julikadewi .................................................................................................................................... 269
7. **PROPER AND IUDICIOUS USE OF ANTIBIOTICS IN PEDIATRIC DENTAL PATIENT**
   Sri Ratna Laksmiastuti .................................................................................................................................. 275
8. **TRANSMISSION OF STREPTOCOCCUS MUTANS AND DENTAL CARIES RISK IN CHILDREN**
   Udijanto Tedjosoasongko ............................................................................................................................ 281
9. **HYALURONIC ACID AS A PREVENTIVE ANTIBACTERIAL AGENT AGAINST DENTAL BLACK STAIN**
   Adita Gayatri, Margaretha Suharsini ........................................................................................................... 287
10. **ADENOID HYPERTRPHY AND PALATINE DIMENSIONAL CHANGES IN CHILDREN WITH MOUTH BREATHING HABIT**
    Astri Kusurnanisnringrum, Sarworini B. Budiardjo ...................................................................................... 291
11. **HEAD POSTURE AND FACIAL PROFILE OF CHILDREN WITH ADENOID HYPERTRPHY- ASSOCIATED MOUTH BREATHING HABIT**
    Joshua Calvin, Sarworini B. Budiardjo ...................................................................................................... 297
12. **ORAL HEALTH STATUS OF PATIENTS WITH LEUKEMIA**
    Aliyah, Heriandi Sutadi .................................................................................................................................. 303
13. **TOOTH ERUPTION IN CHILDREN WITH DIABETES MELLITUS**
    Danar Pradipta Rani, Margaretha Suharsini ................................................................................................. 309
14. **HUMAN Vm.USES ACCELERATE THE PERIODONTAL DISEASES**
    Dewi N. Mustaqimah, Devie Falinda .......................................................................................................... 315
15. **A SYSTEMATIC REVIEW OF PERIODONTAL DISEASE AND CARDIOVASCULAR DISEASE**
    Sandra Olivia Kuswandani, Yuniarti Soeroso, Sri Lelyati Masulili ............................................................... 319
16. **PREVALENCE AND RISK FACTORS OF DENTAL EROSION: A SYSTEMATIC REVIEW**
    Annisa Septal ita, Diah A. Maharani, Annasistra Bahar ............................................................................... 325
17. **EFFECTIVENESS OF SILVER DIAMINE FLUORIDE IN DIFFERENT CONCENTRATIONS TO ARREST DENTAL CARIES - A LITERATURE REVIEW**
    Rani Anggraini, Risqa R. Darwita, Melissa Adiatman.................................................................................. 333
18. **Masticatory Rei-Iabilitation As A Therapy For Cognitive Impairment**
    Kartika Indah Sari ......................................................................................................................................... 339
19. **ORAL APPLIANCE THERAPY FOR TREATMENT OF SLEEP BRUXISM**
    Ade Amahorseya .......................................................................................................................................... 343
MANAGEMENT OF SCHWANNOMA OF THE TONGUE

(CASE REPORT)

Bambang T. Susilo¹, Vera Julia²

¹Resident, Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Universitas Indonesia
²Staff of Oral and Maxillofacial Surgery Departement, Faculty of Dentistry, Universitas Indonesia

Corresponding email: bambang.trisusilo@yahoo.com

Background: Schwannoma is a benign and non-recurring tumor arising in the cranial nerves, bone, and gastrointestinal tract but mainly in muscles and subcutaneous tissue. Schwannoma has a slight predilection in the head and neck region. Schwannomas are rare in the oral cavity and only 1% of all extracranial schwannomas show intraoral occurrence, the tongue being the most common site in the intra oral region. Schwannoma grows as a slow growing mass occurring during long periods of time, and only producing few symptoms.

Objective: To report a successful management on Schwannoma of the tongue

Case Report: 17 year old female patient came to Oral and Maxillofacial Surgery division of Cipto Mangunkusumo Hospital Jakarta, with chief complaint of a swelling under the right tongue since 4 days before admission. Based on histopathologic examination, we diagnosed it as schwannoma. The treatment of choice is a surgical excision of the lesion.

Conclusion: This case report presents the successful surgical management on Schwannoma of the tongue. Surgical excision had been performed through an intra oral approach.

Keywords: Schwannoma, tongue, excision
**Introduction**

Schwannoma is a solitary, encapsulated, slow growing, benign tumor which originates from Schwann cells of the nerve sheath. 1 25% of schwannoma occur in the head and neck region, but only 1% arising intraorally. 2,3 The intraoral location highly effected is the tongue, followed by the palate, floor of the mouth, and gingiva. 1,3-5

The etiology of schwannoma is still unknown, but it is postulated that schwannoma arises by proliferation of Schwann cells.1 Schwannoma may happen at any age, but the highest incidence is from age 20-50 years with no gender predilection.2,3

**Case Report**

A 17-year-old female came to the Oral and Maxillofacial Surgery Division at Cipto Mangunkusumo hospital with chief complaint of a swelling on the lower part of the tongue. Five years before admission the patient felt swelling with the initial size of a corn seed, gradually increasing in size with no other symptomps.

Her general health condition was good but intraorally there was swelling on the right ventral side of the tongue with 3x2x1 cm. The swelling was that of a smooth surface, well defined border, and colour the same as the surrounding (Fig.1). Working diagnosis was soft tissue tumor on the right ventral side of the tongue and treatment planning was excisional biopsy.

Excisional biopsy was performed under general anaesthesia, and the excision was taken with an intra oral approach (Fig.2). The mass had a smooth surface, white in colour and a 3 cm diameter in size (Fig 3 and Fig 4). From the histopathology result, the description was concordant with schwannoma.

**Discussion**

Schwannoma is one of the rarest tumor that occurs intraorally. Schwannoma is benign, encapsulated, slow growing, solitare, with no symptomps at the beginning.1-3 It can occur at any age, but commonly occur at the second to sixth decade of life. 2 There is no gender predilection, but it is slightly higher in women.6 The size of tumor measures 3-
30mm in diameter and the period of growing is 1 month to 10 years. Clinical findings of Schwannoma tells that it is well circumscribed and has a clear border.  

Because schwannoma is rare in intraoral and has no specific symptoms, the diagnosis of schwannoma is made by histologic examination. MRI would be helpful to identify the exact location of the lesion and to differ from other tumor and inflammatory lesions. Biopsy and imaging are important to determine diagnosis the lesion in the head and neck region.

Differential diagnosis of schwannoma includes squamous cell carcinoma, pleomorphic adenoma, lipoma, fibroma. Surgical excision or enucleation is the treatment of choice of this lesion and the rate of recurrences are low. From histologic examination there appears to be an encapsulated benign tumor comprised entirely of elongated Schwann cells which have spindle-shaped nuclei with tapered ends. There are two patterns based upon the degree of cellularity and known as “Antoni A” and “Antoni B”.  

**Conclusions**

Schwannoma is one of the rarest benign lesion that occurs intraorally. Only 1% from 25% of all schwannoma in the head and neck region occur intraorally. Definitive diagnosis are only made by biopsy to differ from another lesion. Surgical excision or enucleation are treatments of choice from schwannoma. Recurrence rate is low if it is totally excised.
References


