UNIVERSITY "GOCE DEČEV" – ŠTIP FACULTY OF MEDICAL SCIENCES



ORALSURGERY TREATMENT OF RADICULAR CYSTS

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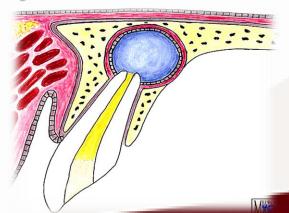


INTRODUCTION

Cysts are pathological formations that develop in the bone tissues or in the soft tissues of the upper and lower jaw.

- cystic cover
- cystic content

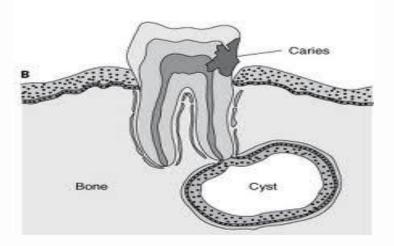
<u>Radicular cysts</u> are one of the most common and their prevalence is over 50% making up more than two thirds of all jaw cysts.





THEORETICAL BASES AND LITERATURE REVIEW

Etiopathogenesis of radicular jaw cysts



Radicular cyst / pathogenesis a lnitiation b Cyst formation c Cyst enlargement



Clinical presentation and diagnosis of radicular cysts

Asymptomatic / Symptomatic

- pain
- edema of the vestibular bone lamella
- -Changed tooth color
- -fistula





Oral surgical procedures in the treatment of jaw cysts

- Marsupialization (Cystotomy) Partsch 1
- Enucleation (Cystectomy) Patch 2
 - cystectomy with apicotomy
 - cystectomy by extraction
 - -closed technique
 - -open technique



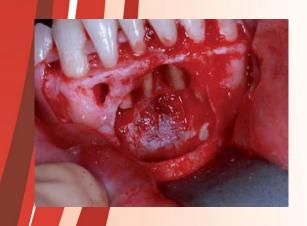


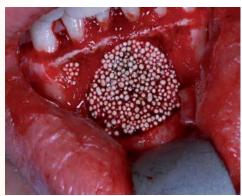
Application of allogeneic materials in the treatment of radical cysts

BONE GRAFTS

The most commonly used autogenous graft is the spongy bone of the pelvis (crista iliaca), from the rib or from the tibia.

Synthetic materials (alloplastic) mainly consist of hydroxyapatite or calcium triphosphate







PURPOSE AND SUBJECT OF LABOR

Main purpose: to evaluate the prevalence of different types of oral surgery treatment in radicular cysts.

Specific goals:

- 1. To evaluate the prevalence of radicular cysts in relation to the gender and age of the patients studied;
- 2. To determine the present symptomatology of affected teeth;
- 3. To evaluate the therapeutic procedures regarding the intraoperative parameters in the treated cases;
- 4. To determine the prevalence of postoperative parameters in the treated cases with treated radical cysts.

MATERIAL AND METHOD OF WORK

The study has been conducted at P.H.O. specialistic dental clinic for oral surgery "Dr. Nikola Dzidrov-Štip.

Research sample:

22 participants (8 female; 14 male)

Age range: 10-75

(All participants have given their consent for the usage of data provided)



3. Крварење	
-Нема: - Има:	
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-Контролни прегледи:	
1.РТГ (по 8 недели):	
2. РТГ (по 6 месеци): -коскено	
-фиброзно зарасн у вање	
Забелешка:	

Method

The following procedures have been performed during the study:

- 1. Detailed anamnesis;
- 2. Clinical examination;
- 3. Paraclinical investigations.
- diagnosis
- therapy
 - cystectomia cum apicotomia
 - enucleatio in toto cum extractio

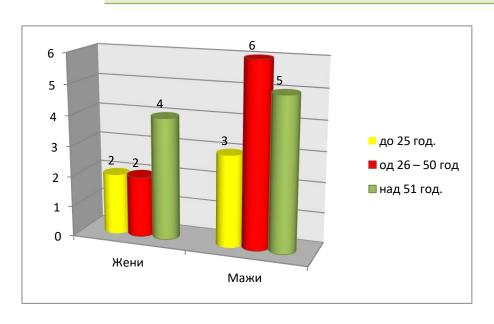


statistical analysis of the results obtained from the study

RESEARCH RESULTS

Table 1. Respondents classification by gender and age

Age	< 25 год.	26 – 50 age	> 51 год.	Total
Female	2(9%)	2(9%)	4(18%)	8(36%)
Male	3(13.7%)	6(27.4%)	5(22.7%)	14(64%)
Total	5(22.7%)	8(36.4%)	9(40.7%)	22(100%)



-Winnie Pradel and Gunter Lauer 40 -60 age 16 male and 4 female

- -Joseba Andoni and Garcia De La Fuente
- > 50 години
- -H. W. Bart Schreuder and Rene P. Veth
- 18 25 age 14 maleи 12 female

Table 2. Representation of respondents' reason for visiting a dentist

Reason	Male	Female	Total
Pain	9(41%)	6(27.5%)	15(68.5%)
Swell and pain	3(13.5%)	0(0%)	3(13.5%)
Other reasons	2(9%)	2(9%)	4(18%)

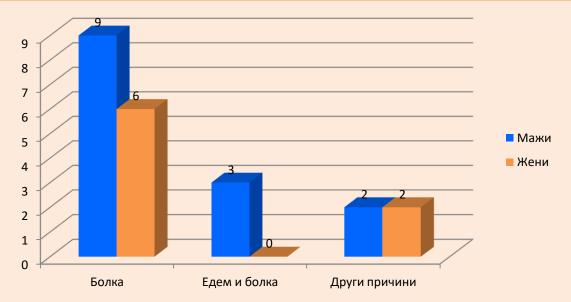
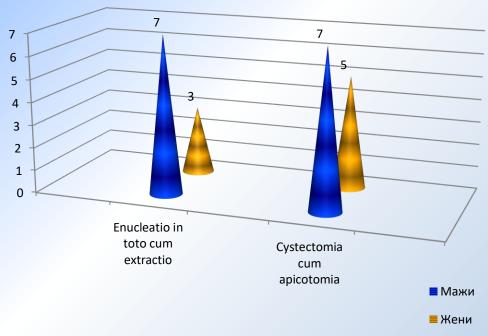


Table 3. Representation of the therapy results

Therapy	Male	Female	Total
Enucleatio in toto cum extractio	7(32%)	3(13%)	10(45%)
Cystectomia cum apicotomia	7(32%)	5(23%)	12(55%)



Winnie Pradel and Gunter Lauer

17 cases (77%) -Cystectomia cum apicotomia

5 cases (23%) –Enucleatio in toto cum extractio

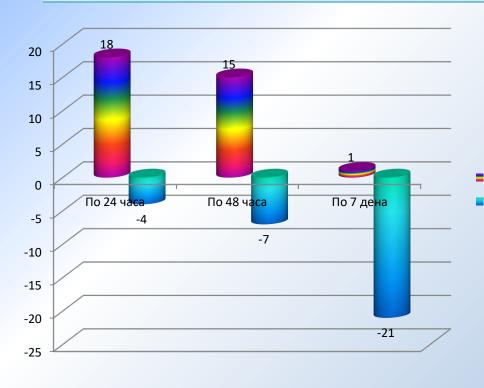
H. W. Bart Schreuder and Rene P. Veth

15 cases (57.6%) –Cystectomia cum apicotomia

11 cases (42.4%) –Enucleatio in toto cum extractio

Table 4. Results of postoperative parameters – pain

Pain	+	-
24 hours	18 (82%)	4 (18%)
48 hours	15 (68%)	7 (32%)
7 days	1 (4.5%)	21 (95.5%)

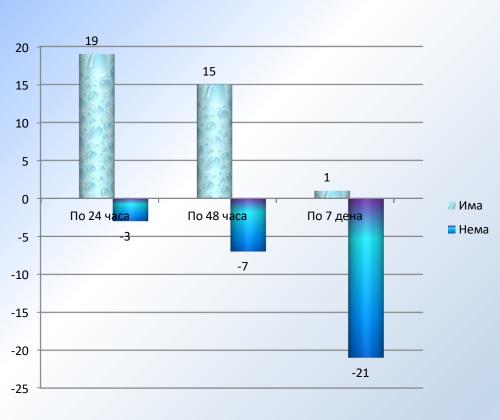


H. W. Bart Schreuder and Rene P. Veth

18 cases(66.6%)-24 hours
10 cases (37%) -48 hours
Steven Gitelis, Warren Haggard and
Patricia Piasecki, 24 hours (8.6%)
,(4.5%)48hours

Table 5. Results of postoperative parameters – edema

Edema	+	-
24 hours	19 (86%)	3 (14%)
48 hours	15 (68%)	7 (32%)
7 days	1 (4.5%)	21 (95.5%)



H. W. Bart Schreuder and Rene P. Veth, 24 hours (66.6%), 48 hours (37%).

Steven Gitelis, Warren Haggard and Patricia Piasecki,

24 hours (8.6%), 48 hours (4.5%)

CONCLUSION

- 1. The prevalence of radicular cysts is higher among males (64%), compared to females (36%), while in terms of age, radicular cysts are most prevalent among respondents over the age of 51 (40.7%).
- 2. In terms of affected teeth and segments of the jaws, the most commonly affected by radical cysts are the first molar in both maxilla and mandible (28%).

- 3. Symptoms in affected teeth with radicular cyst were: pain (present in 90% of the participants), edema (60%), fistula (10%), and tooth discoloration (35%).
- 4. The therapeutic procedures used for the treatment of radicular cysts were: extraction-induced enucleation (45%) and cystectomy with apicotomy (55%).
- 5. From the postoperative parameters, pain and edema were present in 82% of the participants in the first 24 hours, 68% felt pain in the following 48 hours, and only 4.5% felt pain in the following 7 days. Postoperative bleeding was noticed by 4.5% of the participants in the first 24 hours.