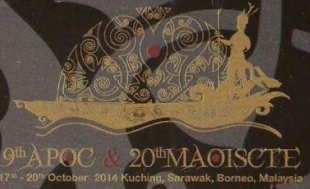


SOUVENIR PROGRAMME
EMBRACING ORTHODONTIC DISCOVERY



9TH ASIAN PACIFIC ORTHODONTIC CONGRESS
&
20TH MALAYSIAN ASSOCIATION OF ORTHODONTISTS
INTERNATIONAL SCIENTIFIC CONFERENCE
AND TRADE EXHIBITION
17TH - 20TH OCTOBER 2014
KUCHING, SARAWAK BORNEO, MALAYSIA

Legend

¹ Oral Presentations

F O 0 1 - F O 1 3

² Oral Awards Competition

F C 0 1 - F C 1 0

³ Poster Presentations

F P 0 1 - F P 3 9

F O 0 1

Effect Of Topical Application Of Controlled Release Bisphosphonate Risedronate To Prevent Relapse After Orthodontics Treatment: A Study In Guinea Pig

TITA RATYA UTARI
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Background: Relapse (a condition when tooth moves into original position) is considered a failure in orthodontics treatment. This can be happen because of bone resorption by osteoclast remains during bone remodeling. Some studies related to the preventive effects of bisphosphonate against bone resorption have been extensively done in dentistry. However, topical administration to result local effect is still problems. Drug delivery technology using drug carrier is considered to be a candidate to overcome the problems because the system is effective to transport pharmaceutical substances into targeted area and affect topically.

Objective: The aim of the study was to investigate the effect of bisphosphonate risedronate with gelatin hydrogel as a carrier to prevent relapse.

Materials and Methods: Lower incisors of 60 Guinea pigs were moved distally using open coil spring and removed when reached +3mm length. Gelatin hydrogel fabricated to result semisolid controlled release manner of 250 µmol/L (namely Bis-CR250) and 500 µmol/L (namely Bis-CR500) bisphosphonate risedronate were then injected in the mesial subperiosteum area of 20 Guinea pigs for Bis-CR250 and 20 for Bis-CR500 every 3 days. The rest 20 Guinea pigs were used as control (namely Bis-CR000 or without bisphosphonate injection). Relapse was measured on day 3, 7, 14, and 21. T-test and ANOVA were used to determine differences of the relapse among different time intervals and groups.

Results: On the day 3 and 7, there were no significant differences in the relapse length indicated among groups, but a significant difference was indicated on day 14 and 21 (p<0.05) among groups in which Bis-CR250 and Bis-CR500 showed less relapse area compared to Bis-CR000. Bis-CR500 prevent relapse more effectively than Bis-CR250.

Conclusion: Topical bisphosphonate risedronate is effective to prevent relapse after day 7 in which higher concentration of controlled release bisphosphonate risedronate (Bis-CR500) prevented more compared to lower concentration (Bis-CR250).

Keywords: Bisphosphonate risedronate, controlled release, orthodontics, relapse.

F O 0 2

Orthodontic Alignment of an Ankylosed Maxillary Lateral Incisor with Aid of Surgical Luxation in a 15-year-old Girl (Case report)

MAH ENG CHENG
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Ministry of Health, Malaysia

Ankylosed tooth can be nightmare to orthodontist as it cannot be moved by orthodontic force. A malpositioned ankylosed tooth often ends up with removal and replacement with implant or prosthesis. This case report describes the management of a malocclusion, complicated by a partially ankylosed maxillary lateral incisor by using surgical luxation and orthodontic fixed appliance.

A 15-year-old girl presented with a highly placed upper left maxillary lateral incisor which failed to align with conventional fixed appliance causing occlusion cant. Surgical luxation was carried out to loosen this tooth before being align by piggy back mechanic. After 6 months, this ankylosed maxillary incisor was successfully aligned into an ideal position without compromising the aesthetic and function. However this tooth lost its vitality and presented with mild gingival recession and minor alveolar bone resorption; otherwise there is no detrimental sign and symptom.

This case report shown that partial ankylosed tooth can be aligned by orthodontic treatment with the aid of surgical luxation.

Supporting Agency: Dental Division, Ministry of Health, Malaysia

Keywords: luxation, ankylosis, ankylosed tooth, later incisor



FREE 18TH-19TH OCTOBER 2014 COMMUNICATIONS ABSTRACTS



ORAL PRESENTATIONS (FO)
SUNDAY 19TH OCTOBER 2014

VENUE: MEETING ROOM 2 & 3, BCCK

Presentation code	Name of Presenter	Organisation	Title	Time(hrs)
F001	Tita Ratya Utari	Graduate School of Dental Sciences, Faculty of Dentistry, Gajah Mada University, Yogyakarta, Indonesia	Effect Of Topical Application Of Controlled Release Bisphosphonate Risedronate To Prevent Relapse After Orthodontics Treatment: A Study In Guinea Pig	0900-0910
F002	Mah Eng Cheng	Dental Division, Ministry of Health, Malaysia	Orthodontic alignment of an ankylosed maxillary lateral incisor with aid of surgical luxation in a 15-year-old girl. (Case report)	0915-0925
F003	Noraina Norman	Department of Orthodontics, University of Manchester, United Kingdom	Nickel Titanium springs versus Stainless Steel springs: A randomized clinical trial of two methods of space closure.	0930-0940
F004	Hooi Imm Soon	Department of Orthodontics, University College London (UCL) Eastman Dental Institute United Kingdom	A Study to Investigate the Bond Strength of Orthodontic Brackets Bonded to Prosthetic Acrylic Teeth	0945-0955
F005	Puvanendran Balasingham	Ministry of Health, Malaysia	Statistical analysis of impacted canine cases treated at two specialist centres; Malacca and Seremban	1000-1010
F006	Yu-Ling Huang	Jhan-Sin Orthodontic Clinic, Taiwan	A predictable method to correct posterior buccal crossbite: A case report	1015-1025
Tea-Break				1030-1100
F007	Ching-Ming Su	Department of Orthodontics, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan.	Distalization of the maxillary arch depending on the orthodontic miniscrews	1100-1110
F008	Hsiu-Ching Ko	Department Of Dentistry, National Taiwan University Hospital, Graduate Institute Of Clinical Dentistry, School Of Dentistry, National Taiwan University, Taiwan.	Surgical-Orthodontic Management of Skeletal Class II malocclusion with Obstructive Sleep Apnea in an Adult Patient - A Case Report	1115-1125
F009	Hung Hsiang Liao	Department of Dentistry and Graduate Institute of Clinical Dentistry School of Dentistry, National Taiwan University, Taiwan.	Treatment of Severe Deep Bite in an Interdisciplinary Case	1130-1140
F010	Yu-Jen Hsu	Department Of Dentistry And Graduate Institute Of Clinical Dentistry, School Of Dentistry, National Taiwan University, Taiwan.	Surgical-Orthodontic Correction Of Dentofacial Deformity Associated With Partial Mandibulectomy To Treat Ameloblastoma - A Case Report	1145-1155
F011	Chien-Cheng Chen	Division Of Orthodontics, Department Of Dentistry, Taipei Tzu Chi Hospital, Taiwan	Full Mouth Rehabilitation Of A Patient With Ectodermal Dysplasia By Interdisciplinary Treatment: A Case Report	1200-1210
F012	Wayne Hickory	Embassy Row Orthodontics, Washington, D.C., USA	Doubling the Rate of Tooth Movement with Micro-Osteoperforations	1215-1225
F013	Mohammed Taher Bukhary	Department of Pediatric Dentistry and Orthodontics, College of Dentistry, King Saud University, Riyadh, Saudi Arabia.	Procliner - A New Patented Intraoral Device For Non-Surgical Treatment Of Class III Skeletal Discrepancy.	1230-1240

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