Medical Doctors’ Knowledge of Dental Specialty: Implication for Referral
C.C. Azodo, O. Ehigiator, A.O. Ehizele, O. Ololo

The research goal is to assess Medical Doctors’ knowledge of the various dental specialties and to determine if their past dental experience affects their level of knowledge. Resident Doctors and Medical Officers working in the University of Benin Teaching Hospital, Nigeria were surveyed with self-administered questionnaire in 2008. A total of 142 doctors responded to the questionnaire, giving a response rate of 71%. The female: male ratio was approximately 1:2.5. The designations of respondents were Senior Registrar 21.8%, Registrar 48.6% and Medical Officers 29.6%. The Departments that returned the questionnaire were Internal Medicine 21.1%, Surgery 19%, Paediatrics 15.5% Family Medicine 11.3%, Accident and Emergency 5.6%, Radiology 4.9%, Ophthalmology 8.5%, Pathology 5.6%, Anaesthesiology 5.6% and Mental Health 2.8% The mean knowledge score was 10.1±3.3. (Maximum score =21). Only a small percentage (5.6%) had a good knowledge (scored above 16), 79.6% had a fair knowledge (scored 8-15) and 14.8% had a very poor knowledge (scored less than 8). Doctor with history of previous dental treatment had better knowledge (P<0.05). The knowledge of Medical Doctors about the various areas in Dentistry is presently not satisfactory. Comprehensive care of patients, which includes prompt and appropriate referral, can be optimized by improvement of Doctors’ knowledge of dental specialty through seminars and other educational interventions.

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Preventive Intervention of Pit Fissure Sealant to Reduce New Dental Caries Incidence in the Student of Sumbangsih Primary Schools Jakarta
Risqa Rina Darwita, Iwny Amalliah

The aim of this study to determine whether a pit fissure sealing teeth represents an effective method of decreasing the incidence of new dental caries, to gain the parents, teachers and Sumbangsih Education foundation acceptance on this new activity. Methods. The subjects were 7-11 year of age of 251 student of Sumbangsih Primary School, which located in Kemang, South Jakarta and Grogl, West Jakarta. Intra oral examinations and pit fissure sealing were done in the school dental clinic. The data were analyzed by Chi-square test. The results showed that, the number of student who receives pit-fissure sealant in primary school Kemang was 38%, and Grogl was 62%. The number of tooth with pit fissure sealant in 251 student was 825 tooth, however, the students who were received pit-fissure sealant age of 8 and 9 years old (40.36% and 43.39%) were higher then the other students of age 7, 10 and 11 years old. After 6 month evaluation, the occlusal sealant retention rates are including to, full complete retention in occlusal molar surface was 383 tooth had full retention higher significant than those of partial loss occlusant sealant retention (178 tooth). Nevertheless, the occlusal with complete sealant loss was significantly lower (p<0.001) than those of full occlusal sealant retention. The new decay was significantly decrease (p<0.001) in all student, and almost 100% of parent of student were accepted the dental

Tegument based in-silico Drug Targeting of Herpes Simplex Virus-1
Ashish Runthala, Amit Kumar Singh

Alpha Trans Inducing Factor (α-TIF) is a herpes simplex virus type 1 (HSV-1) virion tegument protein present in the tegument layer between the capsid and the envelope, in association with cellular proteins and trans-activated viral activities. α-TIF stimulates the transcription of HSV-1 Immediate Early genes during lytic virus replication. The presence or absence of functional α-TIF protein in vivo is always associated with viral activities. Its role behind latent HSV-1 infection is ambiguous. No drug is designed for HSV till now based on this protein and thus its conformational details can be very important for drug designing purpose. Methods. Docking studies on this protein becomes logical. Four different ligand molecules viz. Adenosine-3’-5’-Diphosphate, P1-(5'-Adenosyl) P4-(5’-2’-Deoxy-Thymidyly) Tetraphosphate, 9-Hydroxyethylguanaine, 9-[4-Hydroxybutyl]-N2-Phenyguanine were screened for the study. Results. P1-(5'-Adenosyl) P4-(5’-2’-Deoxy-Thymidyly) Tetrabphosphate was found to be the best ligand as it showed the lowest docking energy of - 9.238 kcal/mol. Conclusions. The best ligand was found to bind different sites of the α-TIF protein and hence can be utilized to combat HSV-1 successfully, with a synergistic effect of multiplicity of drug molecules on the target protein.


Occupational risk of HIV infection among dental surgeons in Nigerian
C.C. Azodo

Background: Prevention of accidents and management of exposures in the work environment is an important oc-cupation health issue. This study was to investigate the occupational risk of HIV among Nigerian dental sur-geons. Methods: This descriptive cross sectional survey of 300 dental surgeons practicing in private and government owned dental centers in Nigeria was conducted from June 2006 to January 2007. Results: Percutaneous injury was recorded among 69.3% of respondents and only 1.2% had Post exposure prophylaxis. Those with abraded skin that will treat patient without additional barrier were 8.6%. Percutaneous injury was positively related to gender, position, additional qualifications (p<0.05). Conclusion: Percutaneous injury is significantly high and low preventive measure at such exposure. Policies, practices, and trainings geared towards protecting and reducing the prevalence of percu-taneous injury among dental surgeons, and improving post exposure prophylaxis uptake in the event of exposure is a necessity.


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Impact of interspousal violence and maternal deprivation on a child’s mental health: a case report
Alphonus N. Onyiriuka

This paper presents a case of an emotionally deprived child with some evidence of child neglect resulting from husband-wife violence and subsequent separation of parents. It also further confirms the long recognized fact that the most successful treatment of growth failure and weight loss due to psychosocial deprivation is restoration of a normal social environment. In particular, it highlights the need for a high index of suspicion and awareness on the part of medical personnel with regard to emotional disorders in children.

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X-rays referral in an emergency department
Zohair Jamil Gazzaz, Khalid Obeid Dhafar, Abdul Fatah Sindy, Mian Usman Farooq, Shakeel Ahmad Mian

This study highlighted referral rate for X-rays with positive findings in an Emergency department of a tertiary care hospital in Makka, Saudi Arabia. This was a retrospective review of Emergency department(ECD) cards/files of patients visited (ED) of Alnoor Specialist Hospital, Makka, Saudi Arabia, during the month of April, 2006G. The total of 660 (22%) out of 2980 ED patients were included in the study and 1472 X-rays of different regions were done for them. Majority 288 (43.3%) were below 24ys of age while males 372 (56.3%) and Saudis 400 (60%) were predominant. The discharged patients were 572 (86.6%), and 40(6.6%) were died. Six hundred and twenty (93.9%) patients got exposures rang of 1-4 while only four (0.6%) got more than eight exposures to X-rays. It was found that lower limb was exposed 384 times (26%), followed by chest 320 (21.7%). Overall 240 (16.3%) X-rays had positive findings with majority of upper limb 60 (50%) followed by chest 72 (22.5%). Pelvis & perineum had no positive X-ray. Patients from injury & poisoning were predominant 224 (33.9%) followed by respiratory disorders 104 (15.7%). Eighty four percent X-rays had no positive findings. Majority of X-rays were done for lower limb. Neck, pelvis & perineum X-rays had no positive findings.


SEM evaluation of the morphological changes in hard dental tissues prepared by Er: YAG laser and rotary instruments
Georgi Tomov

Effective ablation of dental hard tissues by means of the erbium:yttrium-aluminum garnet (Er: YAG) laser has been reported recently, and its application to caries removal and cavity preparation has been expected. However, few studies have investigated the morphological changes in hard dental tissues after Er: YAG laser caries treatment. In the present study the morphological changes in hard dental tissues after Er: YAG laser caries ablation in vitro was compared with that of conventional mechanical treatment. Thirty extracted human teeth with caries were used. Ten tooth was treated with the Er: YAG laser, and the other was treated with a conventional steel and diamond burs. Laser treatment was performed by means of a non-contact irradiation modes with cooling water spray, with a new Er: YAG laser (LiteTouch). Conventional bur treatment was conducted by means of a low-speed micromotor and air turbine with water cooling. Scanning electron microscope (SEM) observations were performed for each treatment. The Er: YAG laser ablated carious dentin effectively with minimal thermal damage to the surrounding intact dentin, and removed infected and softened carious dentin to the same degree as the burtreatment. In addition, a lower degree of vibration was noted with the Er: YAG laser treatment. The SEM examination revealed characteristic micro-irregularities of the lased dentin and enamel surfaces with potential benefits for adhesive restorations. Our results show that the Er: YAG laser is promising as a new technical modality for caries treatment.


Twin birth order, birthweight and birthweight discordance: any relationship
Alphonus N. Onyiriuka

Background: It is widely believed that in twin pairs, at birth, the first-born weigh more than the second-born but this concept has been challenged. Objective: To assess the truthfulness of this common concept that first-born twins are usually heavier than their second-born siblings at birth. Methods: In a series of 104 sets of live-born twins, the birth weights of first-born twins were compared with those of their second-born siblings, after controlling for gender. Their intra-pair birthweight differences were determined and twin pairs whose birthweight difference was 15% or more were designated as discordant. Results: Twin I was heavier than Twin II in 61.5% of cases while Twin II was heavier than Twin I in 28.9% of cases. Twins I and II had equal birthweights in 9.6% of cases. Comparing the mean birthweight of the first-born male twin with that of second-born- male twin, it was 2515±427g (95% Confidence Interval, CI=2402-2628) versus
2432 +435g (95% CI=2321-2543) p>0.05. The mean birthweight of first-born-female twin was 2326+445g (95% CI=2214-2439) while that of the second-born-female twin was 2325+501g (95% CI=2197-2453) p>0.05. When the birthweight difference exceeded 750g, the probability that Twin I will be heavier than Twin II was 83.3% (5 of 6). Conclusion: Although the first-born twin was more often heavier than their second-born siblings, either could weigh more or less at birth. The larger the birthweight difference between growth-discordant twin pair, the greater the probability that the heavier twin would be delivered first.


The interaction of public-school teachers with student users of psychoactive substances
L.C. De Castro Rossi, I. Dalben, S.C. Mangini Bocchi

The increasing and early use of psychoactive substances by children and adolescents represents a challenge to public-health practice. To understand teachers’ interactions with student users of drugs and develop a representative theoretical model of such experience this study was conducted. Qualitative study conducted in Sro Paulo, Brazil, with 32 teachers from public schools by means of focal groups and based on the Grounded Theory as its methodological framework. Progressively comprehensive categories converged to three phenomena: Identifying student’s users; Feeling powerless in face the challenges of drugs use; Silencing to preserve oneself from a threatening scenario. These phenomena constructed the core category of the experience: Silencing to preserve oneself from a threatening scenario in face of the fragility of rescuing student’s users of drugs. The clash between inducing and protective factors in the concrete situations of drugs use was revealed, thus pointing out that the lack of State and social support associated with the user’s relation with drug trafficking and violence leads teachers to silence as they feel unprotected in face of a situation surrounded by stigma and prejudice. Coping strategies should include the educators, relatives, health care professionals and government institutions, thus providing ways to prevent and treat use, orientate and reconstruct lives in a process of active participation for all students.


Alternative practices of health maintenance in elderly age
Elena V. Chernyshkova

The analysis of elderly people attitude to alternative practices of health maintenance in the context of activity prolongation is presented. By the example of conducted sociological research it is demonstrated that besides medication, health resources maintenance includes the following relevant methods: physical exercises and fitness; quit pernicious habits; rational nutrition; sexual activity.