

# **42<sup>nd</sup> World Dental Science and Oral Health Congress**

March 08-09, 2021 | Webinar



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## Management odontostomatological emergencies during the covid19 pandemic at Idrissa Pouye General Hospital in Dakar (Senegal)

**Babacar Tamba**

Institute of Dentistry and Stomatology of Cheikh Anta Diop University in Dakar, Senegal

**Introduction:** In order to reduce the risk of contamination and the spread of the covid19 virus, oral health professionals have reduced the number of patients seen in dental care services by giving priority to emergencies.

**Objective:** This motivated the initiation of this study, the objective of which was to collect the socio-demographic, clinical and therapeutic aspects of patients received for an emergency, during this pandemic period, in a reference service in surgical dentistry in Dakar.

**Methodology:** This was a descriptive cross-sectional study over a three-month period from March 3 to June 3, 2020. The study included referred and non-referred patients received for an emergency.

**Results:** The results of the present study reported 51% (n = 103) men versus 49% (n = 99) women. Non-referral patients represented 64.9% (n = 131) of the study population and referrals 35.1% (n = 71) of cases. Emergencies were infectious in 74.7% (n = 151) of cases and traumatic 14.3% (n = 29). In addition, acute apical periodontitis was found in 44.6% (n = 90), cellulitis in 16.4% (n = 33) and pulpitis in 9.4% (n = 19) of cases. The therapeutic attitudes were dominated by dental avulsion in 56.4% (n = 114) of the cases, the placement of pulp sedative in 9.4% (n = 19) of the cases and the single-jaw restraint in 8.4. % (n = 17) of cases.

### Biography

- Certificate of Higher Studies in Preventive and Social Dentistry, Senegal, 2001
- State Doctorate in Dental Surgery, Senegal, 2002
- Certificate of Higher Studies in Oral Surgery; Senegal, 2005
- Certificate of Higher Studies in Technology of materials used in dentistry (Biomaterials), Clermont-Ferrand I, France, 2008
- PhD, Odontological Sciences, Senegal, 2013
- Agrégation in Odonto-stomatology, Professor, 2018
- Hospital practitioner, Idrissa Pouye General Hospital
- Congress: Dakar, Abidjan, Marrackekh, Lille, Nantes, Toulouse, Dijon
- Member of the Senegalese Society of Odontology and Stomatology
- Member of the French Society of Oral Surgery (SFCO)

[babacartamba@yahoo.fr](mailto:babacartamba@yahoo.fr)

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## Novel Covid-19 & it's affect on Dental Healthcare

**Bashair Ahmed Rangoonwala**

Jinnah Medical & Dental College, Karachi, Pakistan

**N**ovel Covid-19 has taken the world by storm with 41,104,946 confirmed cases of Covid-19, including 1,128,325 deaths as of October 22, 2020 after it was firstly reported in Wuhan, China. According to biological and clinical research, the mode of transmission of this zoonotic virus has confirmed to be through respiratory droplets which leaves the dental healthcare professionals under the high risk category of contacting the virus as dentistry involves the use of rotary dental and surgical instruments i.e. hand pieces or ultrasonic scalers which create a visible spray that can contain particle droplets of saliva, water, blood & microorganisms. Once present in the human body, SARS-CoV-2 is present abundantly in nasopharyngeal and salivary secretions of affected patients who can be either symptomatic or asymptomatic. Additionally, with basic surgical masks not being 100 percent effective against the aerosols dental practitioners were left ill-fitted to combat the virus during the initial surge when treating dental emergencies such as dentoalveolar trauma and progressive fascial space infection. This article, based of literature review & experience, describes how Covid-19 has brought changes in dental healthcare for both dental learning students and professionals in terms of continuing education/learning hands-on, in patient screening as the oral symptoms of Covid-19 such as xerostomia and loss of taste distinct to normal flu-like symptoms can help with diagnosis, how practice of strict infection control strategies with correct donning and doffing of PPE is now more important than before and a different approach to patient management protocol.

### Biography

Bashair Ahmed is a 22 year old final year dental student currently enrolled in Jinnah Medical and Dental College, Karachi, Pakistan. With the ongoing pandemic which took a huge toll on everybody's lifestyle, she used her research skills and personal hands on experience in treating dental patients to review how COVID-19, which is here to stay, has affected dental setting around the world.

bashair.97@hotmail.com

# 42<sup>nd</sup> World Dental Science and Oral Health Congress

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## Platelet Rich Fibrin (PRF):- A Divine Blessing for Dentistry

**Nishant Kumar Tewari**

Kiran Dental Clinic & Maxillofacial Surgery Centre, Patna, Bihar, India

Immediately following tooth removal, a healing process begins that affects the eventual alveolar bone volume and architecture of the alveolar ridge. Satisfactory and timely healing are essential to obtain ideal functional reconstruction. Traumatic removal of a tooth or a poor healing response may lead to excessive bone loss, delaying tooth replacement, necessitating expensive and time-consuming procedures, or even be impossible to correct. Patients and clinicians could benefit if a cost-effective, simple technique were available that decreased bone-healing time and increased the predictability of favorable results.

Socket healing is a highly coordinated sequence of biochemical, physiologic, cellular and molecular responses involving numerous cell types, growth factors, hormones, cytokines and other proteins, which is directed towards restoring tissue integrity and functional capacity after injury. The development of bioactive surgical additives, regulating, enhancing healing and regeneration of tissues and bone remains one of the great challenges in clinical research.

### Platelet-Rich Fibrin—A Natural Fibrin Matrix

Platelet-rich fibrin represents a new step in the platelet gel therapeutic concept with simplified processing without any artificial biochemical modification. Unlike other platelet concentrates, this technique requires neither anticoagulants nor bovine thrombin (nor any other gelifying agent), making it no more than centrifuged natural blood without additives. The PRF production protocol attempts to accumulate platelets and released cytokines in a fibrin clot.

This new biomaterial can be used in socket preservation, filling up of maxillofacial bony defects, as a membrane to cover the tissue defects, sinus lift along with other bone grafts, etc. It also has found numerous applications in other branches of dentistry as well, such as Periodontics and Oral Implantology.

### Biography

Nishant Tewari has done his BDS from the prestigious Manipal University in the year 2009 and his MDS in Oral & Maxillofacial Surgery from Rajiv Gandhi of Health Sciences, Bangalore in 2014. Ever since, he is concentrating on private clinical practice and is the Director of Kiran Dental Clinic & Maxillofacial Surgery Centre, Patna, Bihar. He has published more than 15 papers in reputed national and international journals and has been a guest lecturer for various CDE programs and State Dental Conferences all over the state of Bihar.

nishantkumar.tewari@gmail.com

# 42<sup>nd</sup> World Dental Science and Oral Health Congress

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## An Audit evaluating local compliance with NICE NG12 suspected cancer: recognition and referral pathway at Bridgewater NHS Foundation Trust Community Dental Services

**Iffah Zaman**

Bridgewater NHS Foundation Trust, United Kingdom

**Background:** Dentists have a responsibility to thoroughly assess the head and neck area for patients which enables them to help identify patients with signs or symptoms that could be caused by cancer.

### **Aims:**

Evaluate local compliance with Nice Guidelines (NG12) for suspected cancer: recognition and referral pathway across the Community Dental Services at Bridgewater NHS Trust at Oldham, Rochdale and Bury Boroughs (ORB).

Identify potential areas for improvement.

Analyse a baseline staff questionnaire regarding current practices.

### **Results:**

- None of the patients met 100% of the criteria for suspected cancer referrals.
- 13.3% of patients that were referred had confirmed cancer that we are aware of.
- 100% of referrals were sent due to signs/symptoms that conform to the NICE NG12 guidelines.
- There was 100% compliance with documenting patient symptoms.
- 10% of patients had no mention of their cancer risk factors in their records.
- 13% of patients had no documented consent for their urgent referral.
- 37% of patients had no clinical documentation of further information provided to them.
- 13.3% of patients who had suspected cancer referrals sent were followed up by us within 2 weeks.
- For 33.3% of the patients referred didn't heard back from the specialist department.

**Discussion:** We should address inconsistencies identified with clinical record keeping, addressing risk factors, gaining valid consent and the follow-up process both locally and from specialist services. The staff survey identified staff lacked confidence in identifying suspicious lesions and varied awareness of NG12 requirements.

### **Biography**

Iffah Zaman is a General Dental Practitioner with experience in Oral and Maxillofacial Surgery and Community Dentistry

[iffah.zaman@nhs.net](mailto:iffah.zaman@nhs.net)

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## Improving practice operational efficiency through employee scheduling: a linear programming approach

**Swathi Premkumar**

West Texas A&M, USA

Linear programming (or also known as linear optimization) is a well known mathematical technique to achieve optimized outcome (such as higher revenue, best utilization, lower cost etc. which is the objective function) where requirements (also known as constraints) are linear in nature. The technique is well adopted across industries in business and operations planning. Dentistry finds potential application of the approach in employee utilization, stock optimization and improved patient care. This paper aims to provide the application of linear programming in the dental context and demonstrates the technique using a simple model to scheduling employees such as data hygienists and assistants across multiple offices of a dental chain in order to achieve highest efficiency. Even though dental chains which operate in multiple locations are considered more efficient and have controlling factors at a chain level, there exist inefficiencies especially in terms of employee utilization and scheduling. The linear scheduling model is developed in microsoft excel so that any practice that operates as multiple offices can implement the scheduling approach. Our results show over 40% improvement in employee utilization which results in higher profitability to practices. Employees also receive higher remuneration/improved schedules, and lesser burnouts based on the model approach. The results also become important in current situations like COVID-19 pandemic where it is essential for practices to maintain profitability and improved resource utilization. The findings can also be extended to stock scheduling, patient scheduling, and asset utilization.

### Biography

Swathi Premkumar is a dentist from India and has completed her Bachelors in Dental Surgery (BDS) from Amrita Viswavidyapeetham. She also completed her MBA with healthcare management emphasis from West Texas A&M University (with CGPA of 4/4). She has clinical experience in India and has volunteered with multiple practices in Texas. Her research interests include new dental techniques and tools, implementation and adoption of management practices in dentistry and financial evaluations to improve practice efficiency.

swathipremdent@gmail.com