From the desk of the Editor

Main Article
Epidemiological Profile of Hearing Deficiency in a Tertiary Care Hospital (2018-2021)

Indranil Sen, Anup Kumar Das, Arijit Das

Comparative Study of Combined Steroid-Antibiotic Aural Pack versus Antibiotic Drop in Otitis Externa

Jayanta Saha, Debabrata Biswas, Tithi Debnath, Subhadeep Choudhury

A Comparative Study between the Effects of Intra-Articular Injections of Platelet-Rich Plasma versus Corticosteroid with Local Anaesthetic in Refractory Cases of Temporomandibular Joint Disorders

Madhumita Batabyal, Indranil Sen, Rabi Hembrom, Pradip Kumar Ray, Arijit Nag, Kapil Bala, Jayanta Barman, Anamika Anamika

A Study of Predictive Value of Middle Ear Risk Index on Hearing Improvement in Patients Undergoing Surgery for Chronic Suppurative Otitis Media

Bipin Kishore Prasad, Nitya Singh, Ramesh AV

Case Series
Our Experience in Endoscopic Transnasal Optic Nerve Decompression

Saravana Selvan Velmurugan, Vivek Mariappan, Mohamed Siddique Samsudeen, Suresh Kumar Narayanan, Asith Jakkiriya Basha, Revathi Subramanian

Choanal Atresia: Clinical Features and Factors Affecting Its Surgical Outcomes

Abhilasha Somashekar, Prem Kumar, Sandhya Poothatta Manolikandy, Syed Mohammed Shoib

CONTENTS
Bengal Journal of Otolaryngology and Head Neck Surgery
(Incorporating and directly descended from State Journal of Otolaryngology and Otolaryngology, Calcutta)

Published by
The Association of Otolaryngologists of India, West Bengal
CMC House, 91B Chittaranjan Avenue,
Kolkata - 700073,
West Bengal,
India.

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CONTENTS

Tuberculous Otitis Media: A Mysterious Ailment - A Case Series
Saravana Selvan Velmurugan, Vivek Mariappan, Mohamed Siddique Samsudeen, Suresh Kumar Narayanan, Rhea Mathai, Tany James Maria 165

Case Report
Cat Scratch Disease: A Diagnostic Challenge in Cervical Lymphadenopathy
Bipin Kishore Prasad, Yamuna Ranganathan, Ganjan Dwivedi, Devika Gupta 171

Isolated Infra-orbital Nerve Schwannoma
Debjyoti Mallick, Saumitra Kumar, Rojan Ravi, Ankita Atin Mukherjee 175

Squamous Cell Carcinoma of Nasofacial Groove
Tamajit Sau, Saumitra Kumar, Ankita Atin Mukherjee, Debalina Mazumdar 179
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Antibiotics have undoubtedly revolutionized the treatment of infectious diseases and saved countless lives. Antibiotics are often considered a “magic bullet”. But for many reasons, antibiotic resistance has become one of the world’s emerging health problems. The unnecessary use of antibiotics for viral diseases has led to an increase in antibiotic resistance. Antibiotic misuse is facilitated by a number of factors, including availability online, the desire to recover quickly, the possibility of developing new illnesses, and leftover medicines. It’s tempting to stop taking antibiotics as soon as you feel better. But to destroy the bacteria that cause the disease, you must go through the entire course of treatment. If you do not take the antibiotic as directed, you may need to restart the treatment later. If you stop using it, it can also encourage the spread of antibiotic-resistant traits among harmful bacteria. Antibiotics can disrupt sensitive gut flora and cause other infections, such as Clostridium difficile and other antibiotic-related diarrhea. Misuse of antibiotics increases the incidence of untreated skin diseases. Antibiotic-resistant infections lead to more serious illness, longer recovery times, more healthcare provider visits, more frequent or longer hospitalizations, and more expensive treatments. WHO has developed strategies to improve the appropriate use of antimicrobials. WHO has also emphasized antimicrobial stewardship programs (ASPs), including education for doctors and patients. Each healthcare institute must develop its own antibiotic guidelines based on the existing hospital-specific antibiogram with the help of a hospital-level infection control committee (HICC). A state-level antibiotic guideline will help institutes and treating doctors, who do not have institution-specific antibiotic guideline, to prescribe empirical antibiotic therapy prior to receiving the culture and sensitivity reports. The presence of infectious disease specialists in hospitals can also help reduce irrational antibiotic prescribing. Over-the-counter sale of antibiotics should be prohibited. Physicians must actively participate in audits, improving patient communication using brochures. The public also plays a role in antibiotic stewardship program. They should avoid pressuring a healthcare provider to prescribe antibiotics. They must take the antibiotics exactly as prescribed by the doctor and complete the entire course of treatment. They should tell their doctor if any side effect occurs. They should never take leftover antibiotics for a later illness. They should never take antibiotics prescribed for another person or let someone else take their antibiotics.

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