STANDARD TREATMENT WORKFLOW (STW)

Otorrhoea

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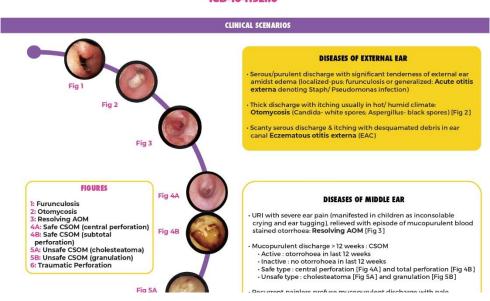
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Standard Treatment Workflow (STW) for the Management of

OTORRHOEA ICD-10-H92.10



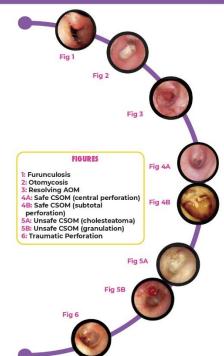




Standard Treatment Workflow (STW) for the Management of **OTORRHOEA**

ICD-10-H92.10

CLINICAL SCENARIOS



DISEASES OF EXTERNAL EAR

- Serous/purulent discharge with significant tenderness of external amidst edema (localized-pus: furunculosis or generalized: **Acute otitis externa** denoting Staph/ Pseudomonas infection)
- Thick discharge with itching usually in hot/ humid climate: Otomycosis (Candida- white spores: Aspergillus- black spores) [Fig 2]
- Scanty serous discharge & itching with desquamated debris in ear canal Eczematous otitis externa (EAC)

DISEASES OF MIDDLE EAR

- URI with severe ear pain (manifested in children as inconsolable crying and ear tugging), relieved with episode of mucopurulent blood stained otorrhoea: Resolving AOM [Fig 3]
- Mucopurulent discharge > 12 weeks : CSOM

- Active : otorrohoea in last 12 weeks
 Inactive : no otorrohoea in last 12 weeks
 Safe type : central perforation [Fig 4A] and total perforation [Fig 4B]
 Unsafe type : cholesteatoma [Fig 5A] and granulation [Fig 5B]
- Recurrent painless profuse mucopurulent discharge with pale granulations/ multiple perforations unresponsive to antibiotics: Tubercular otitis media should be suspected and needs biopsy
- · Bloody otorrhoea following Trauma: Traumatic perforation
- Acute onset bloody discharge with neural deficits/ neck nodes: **Neoplasia**
- · Watery otorrhoea (may be associated with trauma): CSF Otorrhoea

CLINICAL EXAMINATIONS

INVESTIGATIONS

- Otoscopy as a part of Complete ENT examination by primary physician (Tele-otoscopy interpreted by physician) Hearing evaluation by conversation/whisper/Tuning forks tests Ceneral and systemic clinical examination

- Pure tone audiometry
 Routine hemogram including blood sugar (fasting and postprandial)
 CT/ MRI in suspected complications
- (refer to red flags)
 Soft tissue x ray nasopharynx (To examine adenoid enlargement in
- children)
 Culture & sensitivity of aural secretions

- red sensorium.
 fal palsy/ Neurological defecits
 betic with severe deep seated ear pain / neural
 ecits (Skull base osteomyelitis)
 syical trauma with bloody/ watery discharge
 spected CSF leak)
 spected tuberculosis/ neoplasm

MANAGEMENT

PHC / PRIMARY LEVEL

- externa: Oral Ciprofloxacin/ Amoxycillin clavulanic acid combination for 7-10 days (2 weeks nd analgesics. Ichthammol gycerine (1:9) packing of EAC in moderate to severe edema. Refer furuncle to DH Cleaning and Clotrimazole ear drops otitis externa: Ciprofloxacin ear drops with steroid combination. ving AOM: Oral amoxicillin / Erythromycin / Clarithromycin for 10 days. With no response in 3 noxycillin clavulanic acid combination for 10 days. Refer to DH if no resolution

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DISTRICT HOSPITAL

- Surgical managemen of intracranial com including neuro
- Patient to be educated for proper technique of ear mopping, contralateral lie (10 min) following instillation of drops & avoiding water entry e.g ear-plugs during bathing

 To ensure adequate immunization (measles/ H.Influenza/ Pneumococcus) in recurrent AOM and to adopt correct posture during breastfeeding while avoiding bottle feeding

 Pus culture sensitivity to guide antibiotic regime in recurrent/ complicated cases

 Patient education to refrain from indigenous (oil/ hot water/ acid etc) ear treatments

★ KEEP A HIGH THRESHOLD FOR INVASIVE PROCEDURES

CT: Computerized Tomogram
MRI: Magnetic Resonance Imaging
AOM: Acute Otitis Media
CSOM: Chronic Suppurative Otitis Media

EAC: External Auditory Canal URI: Upper Respiratory Infection

- Otitis media (acute): antimicrabial prescribing. NICE guideline. Published: 28 March 2018. rice.org.uk/guidence/rg/91

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