

MYIASIS

Syn : Blow/Bot/Fly-Strike

Introduction

- Gk : “Muia” – Fly ; Scot: ‘Boateig’ – Maggot ; Blow – to deposit ; Screw – spinous horny projections
- infestation of body tissues of humans and animals by the larvae (maggots) of Diptera – Frederick William Hope (1840)
- 02 groups (based on Myiasis-causation) :
 - Obligatory** (Larval Stage in Mammalian body)
 - Facultative** (Decaying flesh, Wound)

Clinical classification (ICD-10)

- DERMAL / SUB-DERMAL
- CUTANEOUS
 - Creeping
 - Furuncular
 - Traumatic
- NASOPHARYNGEAL
- OPHTHALMOMYIASIS
- AURICULAR
- INTESTINAL
- UROGENITAL

ETIOLOGY

Muscidae (Wound Myiasis / Accidental)

- Musca domestica (Housefly)
- Fannia canicularis (lesser / latrine housefly)

Calliphoridae (blowflies – Metallic / Non-metallic)

- Cochliomyia (NW Screwworm)
- Chrysomya (OW Screwworm)
- Cordylobia (Tumbu fly / Sahara fly)
- Auchmeromyia (Senegal Sucker/Congo floor m.)
- Calliphora (Bluebottle)
- Lucilia (Phaenicia) (Greenbottle) - MDT (Serricata)
- Phormia (Black blowfish)

Sarcophagidae: (Flesh flies)

-Sarcophaga

-Wohlfahrtia

Oestridae

-Dermatobia (human botfly) FM

-Gasterophilus (horse botfly) GI

-Oestrus (Sheep nostril fly) NP

-Hypoderma (Warble heel fly) ?HES

Cuterebra (Rabbit-rodent botfly)



2.0 mm



CLINICAL FEATURES

FACULTATIVE / TRAUMATIC WOUND MYIASIS

Eggs / Larvae in suppurating tissues

Calliphora, Lucilia, Phormia, Sarcophaga

OBLIGATORY CUTANEOUS MYIASIS

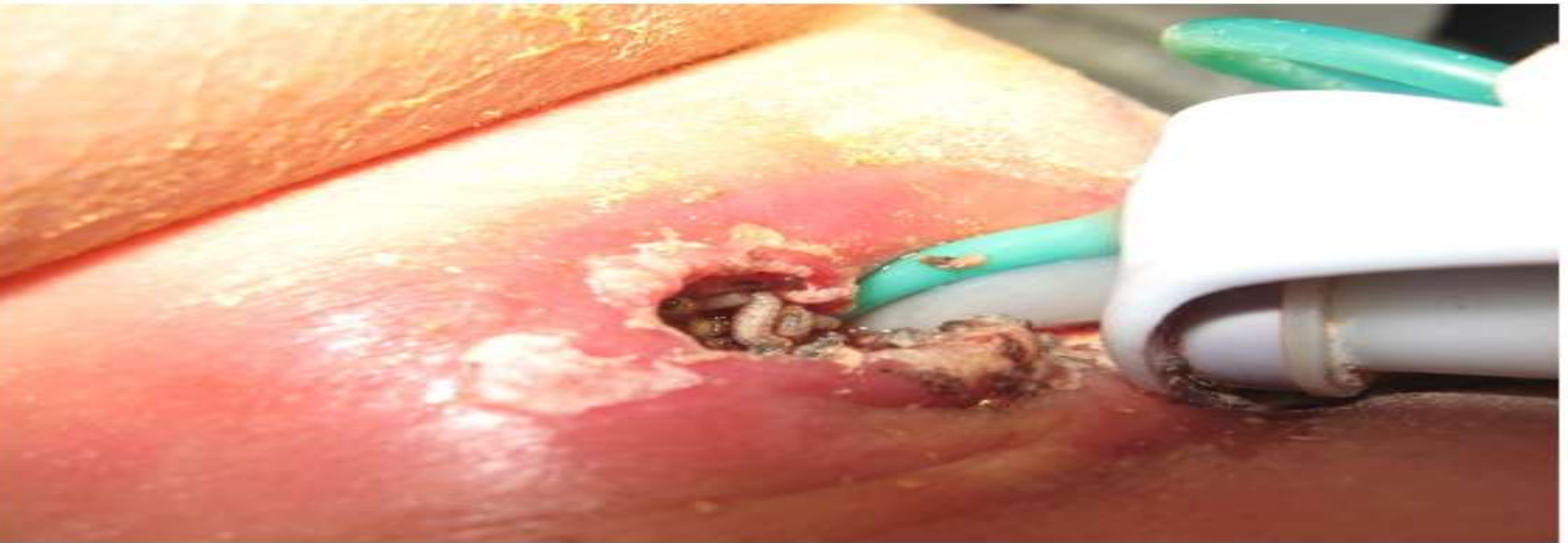
CREEPING ERUPTIONS

FURUNCULAR MYIASIS

Cordylobia, Cochliomyia, Dermatobia, Hypoderma, Gastrophilus, Oestrus

assoc with HES / Constt symptoms ; Exposed areas

Traumatic Myiasis



Furuncular Myiasis

Insidious, tender boils
central punctum
Serosanguinous discharge

posterior end of the larva,
Spiracles visible in punctum

Lymphangitis , regional LAN

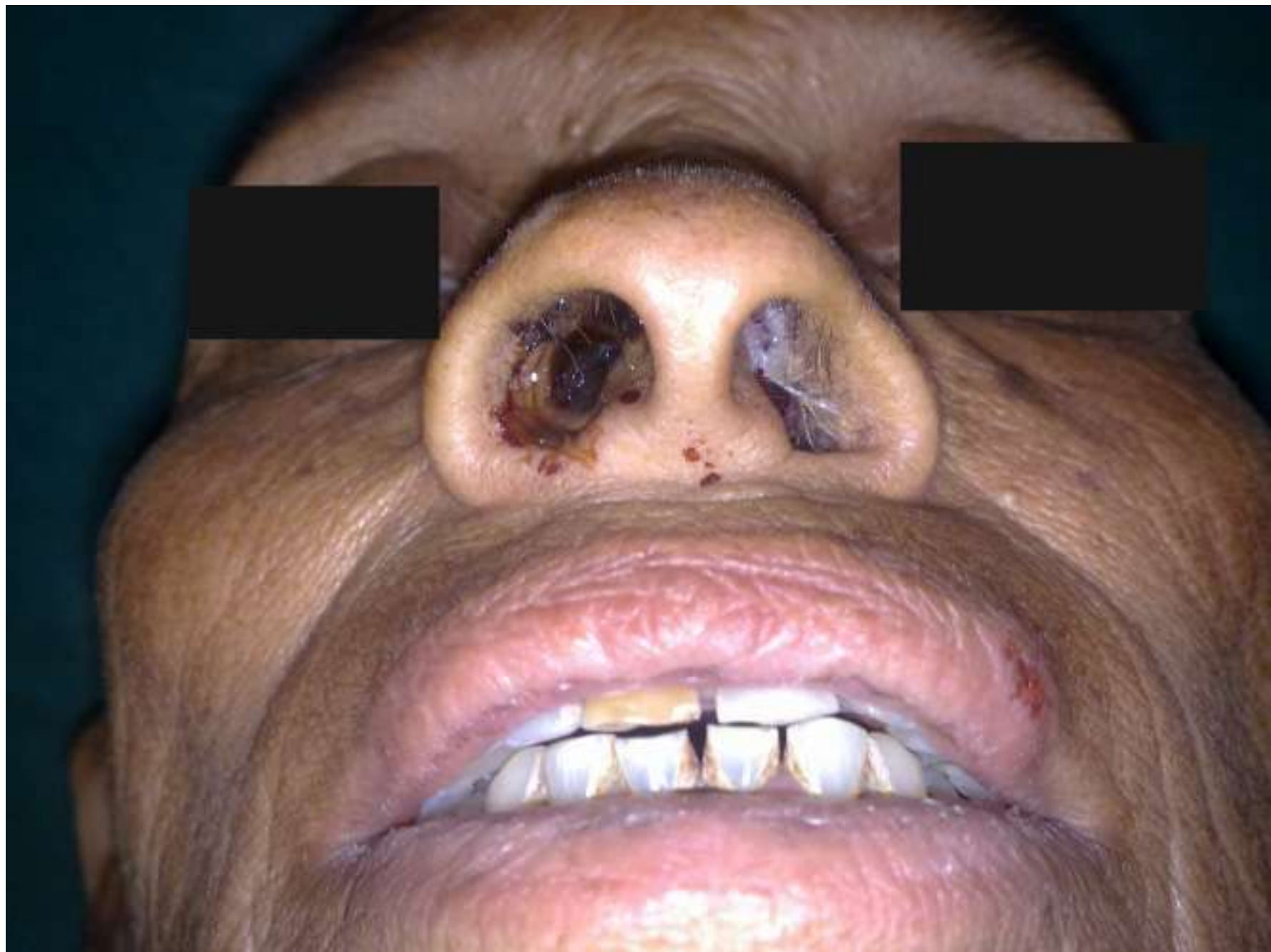
Rapid resolution on removal
of larva



Creeping Eruptions

Resembles cutaneous larva migrans
tortuous, thread-like red line with terminal
vesicle marks the passage of the larva









TREATMENT

Wound myiasis

debridement and irrigation (Chloroform, Turpentine guaze, Ether, Paraffin, Eusol)

treatment of secondary infections

Mechanical Forceps Extraction

Furuncular myiasis

traditional methods: pork fat, mineral oil, petrolatum, butter, beeswax, cigarette ash, chewing gum

surgical (I & D → Extraction)

Creeping Eruptions

Extraction beyond the vesicle

Ethyl Chloride freeze

Ivermectin 12mg PO stat ; Albendazole 400mg

THANK YOU