

# WEEKLY EPIDEMIOLOGICAL REPORT A publication of the Epidemiology Unit Ministry of Health \& Indigenous Medical Services 231, de Saram Place, Colombo 01000, Sri Lanka <br> Tele: + 9411 2695112, Fax: +94 11 2696583, E mail: epidunit@sltnet.Ik Epidemiologist: +94 11 2681548, E mail: chepid@sltnet.lk Web: http://www.epid.gov.Ik 

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Neglected Tropical Diseases - Mycetoma, chromoblastomycosis and other deep mycosis

Mycetoma is a chronic, progressively destructive morbid inflammatory disease, which usually occurs in the foot but can also affect any part of the body. Infection is acquired by traumatic inoculation of the fungi or bacteria into the subcutaneous tissue. It was initially called Madura foot. Mycetoma commonly affects young adults, mostly males between the ages 20 to 40 years, mostly in developing countries. People of low socioeconomic status and manual workers such as those involved in agriculture work, labourers and herdsmen are the worst affected.
Mycetoma is characterized by a triad of: i) painless subcutaneous mass, ii) multiple sinuses and iii) discharge containing grains. It will involve the skin, deep structures and bone resulting in destruction, deformity and loss of function. Mycetoma usually involves the extremities, back and gluteal region.


Figure- Mycetoma lesions
The disease progresses slowly and because the initial lesion is small, many patients present late in the the stage of advanced infection. At such times, amputation may be the only treatment. Secondary bacterial infection is common, and lesions may cause increased pain and disability and complicate with fatal septicaemia. Infection
is not transmitted from human to human.
Diagnosis is usually clinically or with surgical biopsy of specimens. PCR testing is also available. Imaging may be used to find extent of disease. Treatment is with antifungals and antibiotisc for secondary bacterial infection. Surgical management with amputation is done at times. Prevention is by health education, early diagnosis and treatment to prevent complications.

Onchocerciasis, commonly known as "river blindness"

Onchocerciasis is caused by the parasitic worm Onchocerca volvulus which is transmitted to humans through exposure to repeated bites of infected blackflies of the genus Simulium. These blackflies breed along fast-flowing bodies of water such as rivers and streams, near remote agricultural villages. When a female blackfly bites an infected person during a blood meal, it also ingests microfilariae which develop further in the blackfly and are then transmitted to the next human host during subsequent bites. The adult worms produce embryonic larvae (microfilariae) that migrate to the skin, eyes and other organs inside the human body.


Figure: Lifecycle of Onchocerca volvulus Source: Center for Disease Control

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The disease usually affects skin and eyes often leading to disfiguring and itchy lesions and visual impairment, ultimately resulting in blindness. Diagnosis is by skin biopsy and slit lamp examination of the eyes. Treatment is with ivermectin. Prevention mainly relies on vector control and large-scale administration of ivermectim.


Figure: dermatologic and ophthalmic lesions of OnchocerciaSis

## Rabies

It is a vaccine preventable zoonotic viral disease which is usually spread to humans via domestic animals, commonly dogs, and certain wild animals following bites, scratches or contact with mucous membranes. Incubation period can range from 1 week to even one year depending on host site of entry and viral load.

There are 2 forms of the disease:
Furious rabies - which results in signs of hyperactivity, excitable behaviour, hydrophobia (fear of water) and sometimes aerophobia (fear of drafts or of fresh air). Death occurs due to cardio-respiratory arrest after a few days.

Paralytic rabies - which has a longer course. Muscles become paralyzed gradually, starting at the site of the bite or scratch. A coma slowly develops, and eventually death occurs.

No definitive treatment is available. Post exposure prophylaxis is given when suspected exposures are reported. Preexposure prophylaxis is done in certain occupations. Prevention includes vaccination of dogs, dog population control, pre and post exposure prophylaxis, health education and wound care.

## Scabies and other ectoparasites

Human scabies is a parasitic infestation caused by a species of mite known as Sarcoptes scabiei var hominis. The mite burrows into the skin and lays eggs, eventually triggering a host immune response that leads to intense itching and rash. Scabies could be complicated with bacterial infection leading to septicemia, heart disease and chronic renal disease.

Scabies is usually transmitted person-to-person through close
skin contact an infested individual. The risk of transmission increases with the level of infestations, with highest risk due to contact with individuals with crusted scabies. Transmission due to contact with infested personal items (e.g. clothes and bed linens) is unlikely with common scabies, but may be important for individuals with crusted scabies. Diagnosis is usually clinically or by examining skin scrapings under the microscope.

Primary treatment is with topical permethrin, malathion, ivermectin, benzyl benzoate and sulphur. Sometimes oral invermectin is given. Secondary management is with treatment of secondary bacterial infections. Education of mode of transmission and maintaining good hygienic practices is needed. Prevention includes proper hygienic practices, household treatment, early diagnosis and treatment.


Figure: Scabies


Lifecycle of Sarcoptes scabiei var hominis

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## References:

World Health Organisation: Fact sheets on NTDs https://www.who.int/news-room/fact-sheets/detail/mycetoma https://www.cdc.gov/parasites/onchocerciasis/treatment.html https://www.who.int/news-room/fact-sheets/detail/rabies https://www.who.int/neglected diseases/diseases/scabies-and-other-ectoparasites/en/\#:~:text=The\%20Disease,to\% 20intense\%20itching\%20and\%20rash

Table 1：Selected notifiable diseases reported by Medical Officers of Health $15^{\text {th }}$ 21st $^{\text {st }}$ Aug 2020 （ $34^{\text {th }}$ Week）

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Table 2: Vaccine-Preventable Diseases \& AFP

| Disease | No. of Cases by Province |  |  |  |  |  |  |  |  | Number of <br> cases <br> during <br> current <br> week in <br> 2020 | Number of cases <br> during <br> same <br> week in <br> 2019 | Total number of cases to date in 2020 | Total number of cases to date in <br> 2019 | Difference between the number of cases to date in 2020 \& 2019 |
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|  | W | C | S | N | E | NW | NC | U | Sab |  |  |  |  |  |
| AFP* | 01 | 00 | 02 | 00 | 00 | 00 | 00 | 00 | 00 | 03 | 03 | 29 | 53 | - 45.2 \% |
| Diphtheria | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 \% |
| Mumps | 01 | 00 | 01 | 00 | 01 | 00 | 00 | 00 | 00 | 03 | 05 | 122 | 237 | - 48.5 \% |
| Measles | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 05 | 37 | 230 | - 83.9 \% |
| Rubella | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 \% |
| CRS** | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 \% |
| Tetanus | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 03 | 14 | - 76.9 \% |
| Neonatal Tetanus | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 \% |
| Japanese Encephalitis | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 31 | 10 | 210 \% |
| Whooping Cough | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 05 | 36 | - 86.1 \% |
| Tuberculosis | 58 | 15 | 12 | 03 | 11 | 12 | 04 | 11 | 14 | 140 | 189 | 4024 | 5534 | - 0 \% |

## Key to Table 1 \& 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.
RDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna, KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam, AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.
Data Sources:
Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Neonatal Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps., Rubella, CRS,
Special Surveillance: AFP* (Acute Flaccid Paralysis ), Japanese Encephalitis
CRS $^{* *}=$ Congenital Rubella Syndrome
NA = Not Available

## Dengue Prevention and Control Health Messages <br> Look for plants such as bamboo, bohemia, rampe and banana in your surroundings and maintain them free of water collection.

Comments and contributions for publication in the WER Sri Lanka are welcome. However, the editor reserves the right to accept or reject items for publication. All correspondence should be mailed to The Editor, WER Sri Lanka, Epidemiological Unit, P.O. Box 1567, Colombo or sent by E-mail to chepid@sItnet.lk. Prior approval should be obtained from the Epidemiology Unit before publishing data in this publication

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