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# What are Endemics?

- ▶ Defined as those diseases or illnesses which tend to always be present at low levels in populations in a defined geographical area or region (Bartfay & Bartfay, 2020).
- ▶ E.g., Chicken Pox, Lyme Disease, Schistosomiasis



Erythema migrans  
(Bull's Eye Rash)

The bacterium *Borrelia burgdorferi* and *Borrelia mayonii* cause Lyme disease in North America and is transmitted by black-legged ticks, while *Borrelia afzelii* and *Borrelia garinii* are the leading causes in Europe and Asia.

# Hippocrates of Cos<sup>15</sup> (460-377 BC)

- ▶ Greek physician, scholar and father of modern medicine
- ▶ Also coined the terms “epidemic” and “endemic” in his books entitled “*Airs, Waters and Places, Epidemic I and Epidemic II*”.



Hippocrates was the first individual who attempted to explain disease causation from a non-secular or divine perspective.

# Smallpox Eradicated

- ▶ Worldwide Global Smallpox Eradication Campaign began in the late 1960s.
- ▶ On Oct. 26, 1977, WHO reported that they tracked down the last known case of naturally occurring smallpox in the world.
- ▶ Patient was Ali Maow Maalin, hospital cook residing in Merka, Somalia.



# Doll and Hill's Studies on Smoking and Lung Cancer

- ▶ These researchers were disturbed by the striking increase in deaths related to lung cancer in males and females in England and Wales following World War II.



Wartime collection cigarette box for soldiers in hospital.



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