

# Prevalence of hepatitis A and E viruses in wastewater in Asian countries

Raya Sunayana, 3<sup>rd</sup> year PhD (G22DTKA5)

Supervisor: Prof. Eiji Haramoto

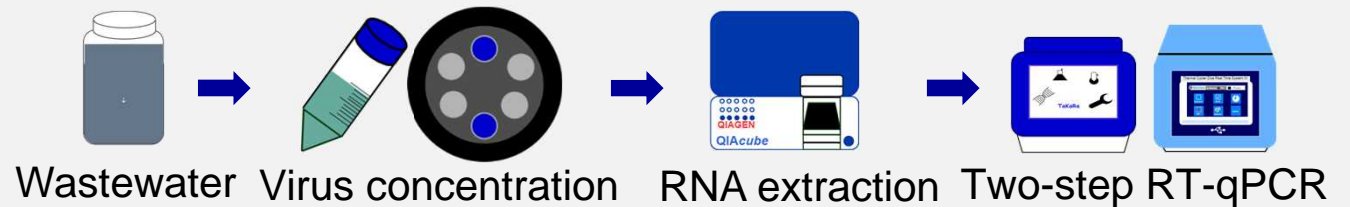


~ 5 Million cases

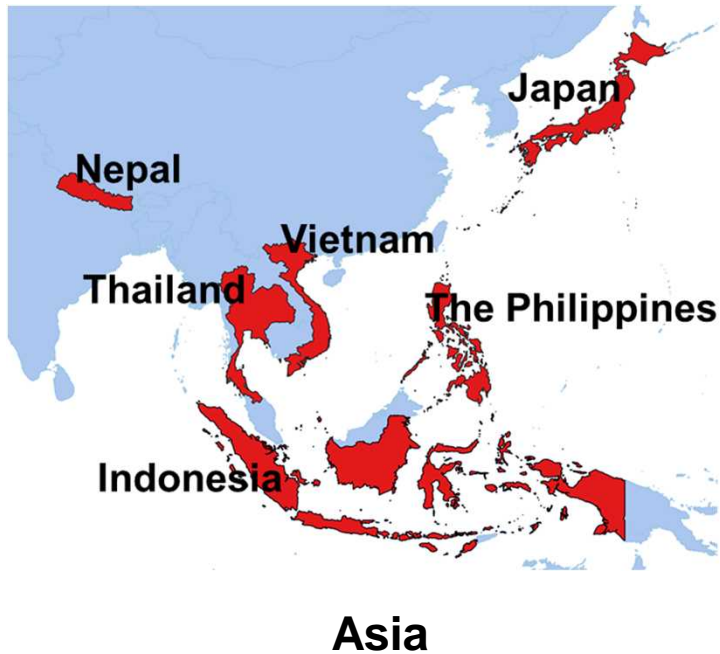
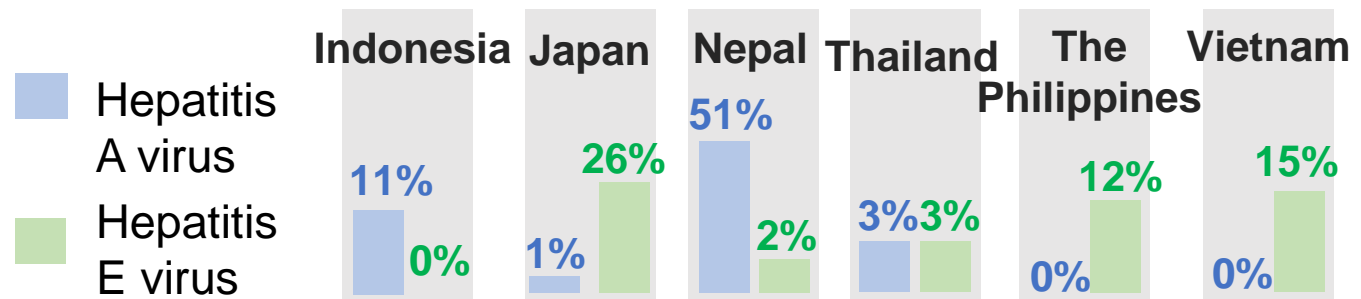
Asymptomatic cases

???

## Detection of hepatitis A and E virus



## Positive ratio of hepatitis A and E virus



Wastewater-based Epidemiology in Improving Global Health

“Towards the Eradication of viral Hepatitis”

