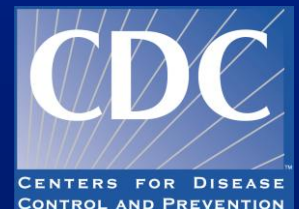
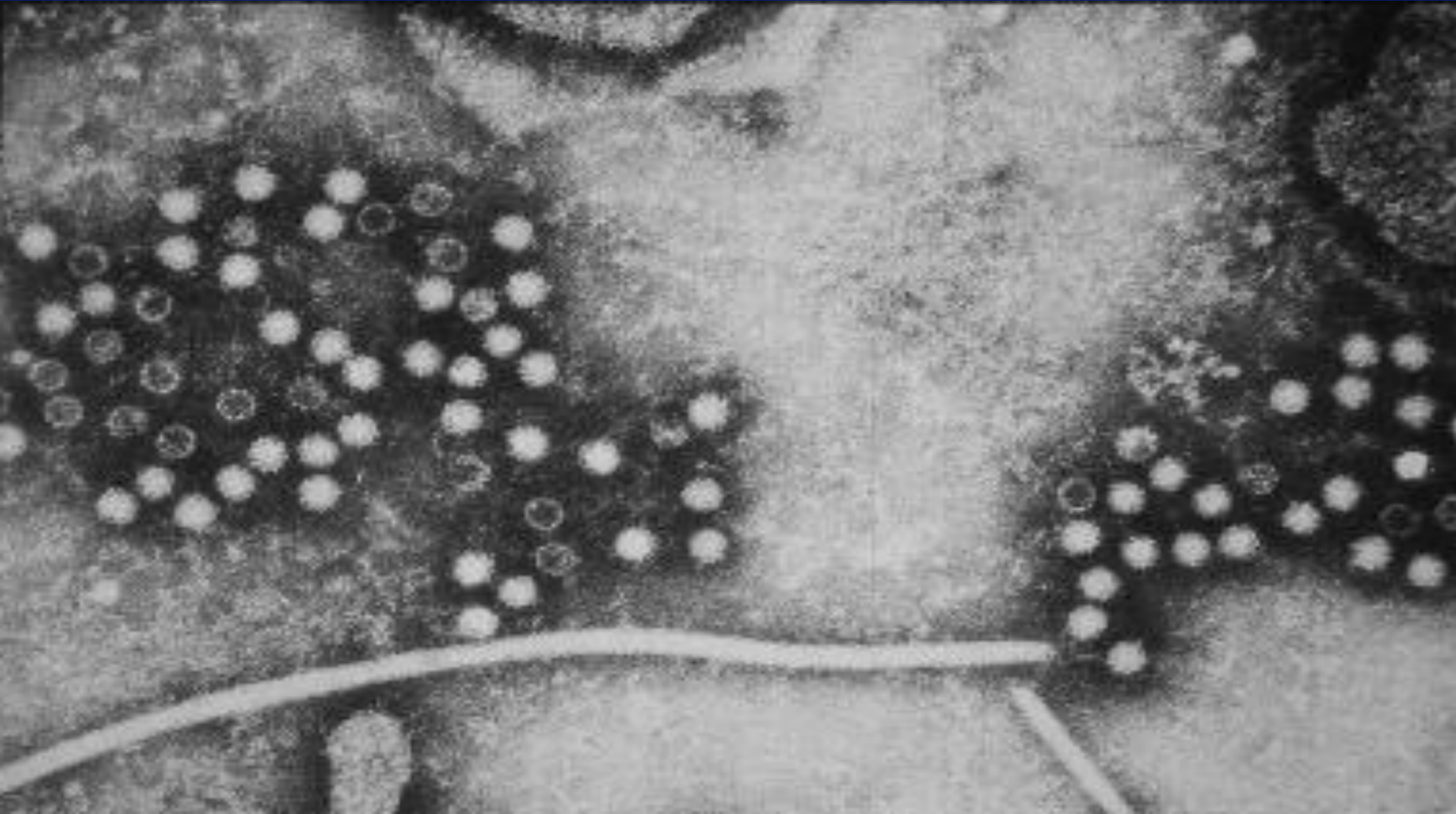


# VIRAL HEPATITIS E

mkolar@med.muni.cz EPI; Autumn 2019



# Hepatitis E Virus



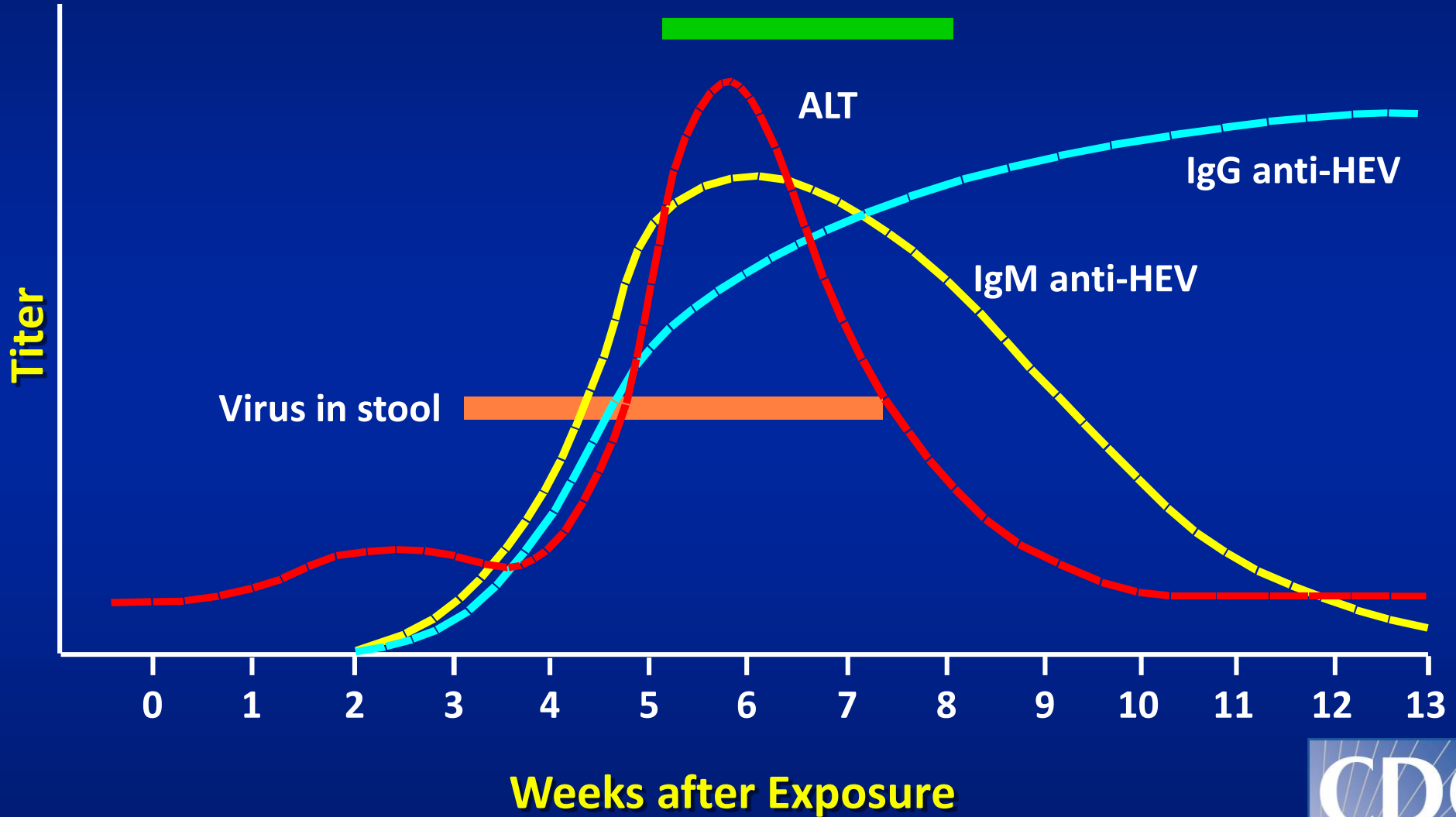
# Hepatitis E - Clinical Features

- Incubation period: Average 40 days  
Range 15-60 days
- Case-fatality rate: Overall, 1%-3%  
Pregnant women, 15%-25%
- Illness severity: Increased with age
- Chronic sequelae: None identified

# Hepatitis E Virus Infection

## Typical Serologic Course

Symptoms

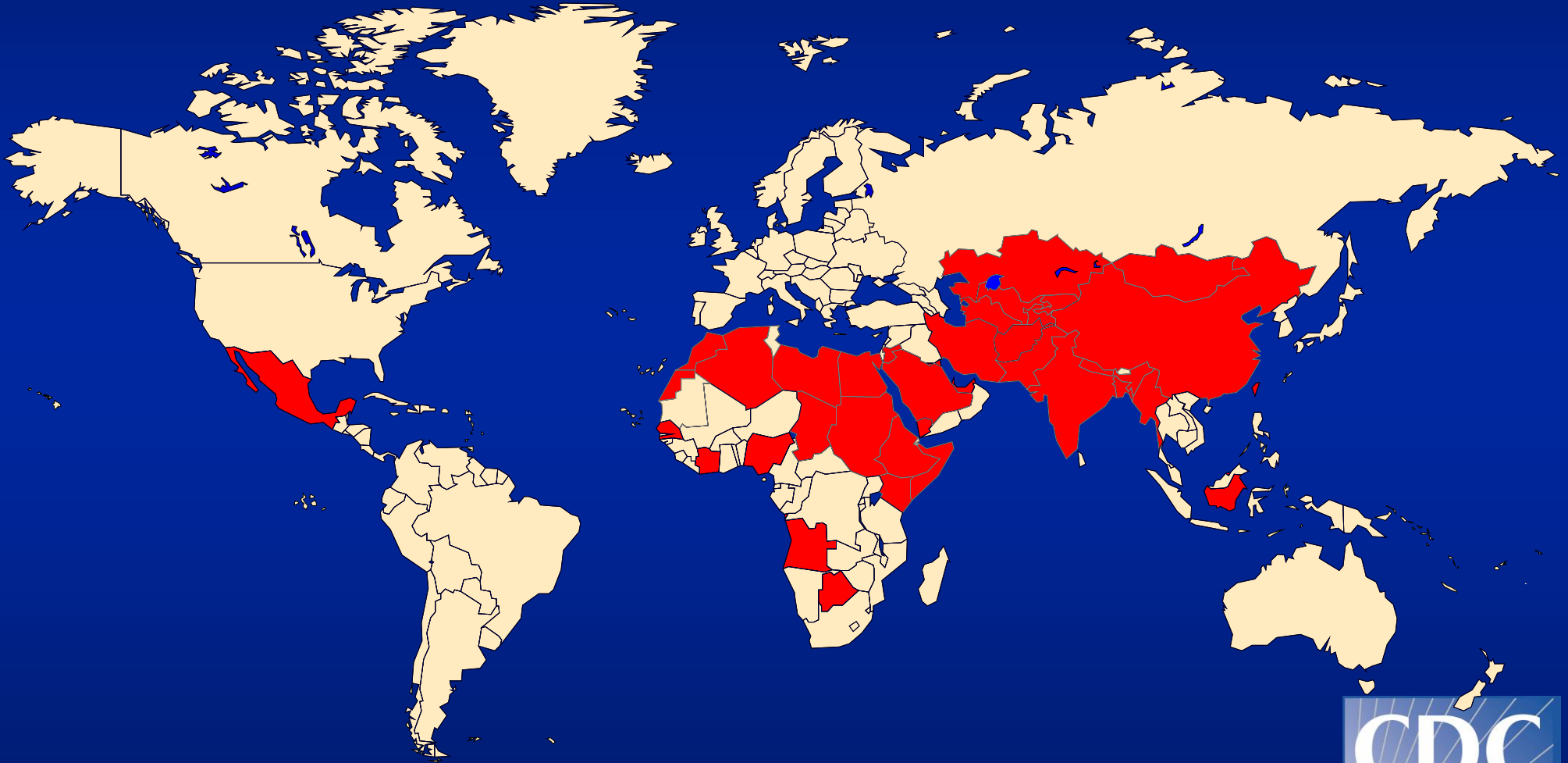


# Hepatitis E - Epidemiologic Features

- Most outbreaks associated with fecally contaminated drinking water
- Minimal person-to-person transmission
- U.S. cases usually have history of travel to HEV-endemic areas

# Geographic Distribution of Hepatitis E

Outbreaks or Confirmed Infection in >25% of Sporadic Non-ABC Hepatitis



# Prevention and Control Measures for Travelers to HEV-Endemic Regions

- **Avoid drinking water (and beverages with ice) of unknown purity, uncooked shellfish, and uncooked fruit/vegetables not peeled or prepared by traveler**
- **IG prepared from donors in Western countries does not prevent infection**
- **Unknown efficacy of IG prepared from donors in endemic areas**
- **Vaccine?**

Viral hepatitis (VH)						
		A	B	C	D	E
Causative agent		Picornaviridae	Hepadnaviridae	Raviviridae	Deltaviridae	Hepeviridae
	nucleic acid	RNA	DNA	RNA	RNA	RNA
Clinical features		fever, malaise and abdominal discomfort				
Association with cirrhosis and hepatocellular carcinoma (fulminant %)		no	+	+	with VHB	no
Incubation period (days)		0,1	0,1-1,0	50	5 - 20	1-2 (10-20 in pregnancy)
The period of infectivity	Incubation period	15-50	28-180	15-160	???	15-45
	acute illness	last 2 weeks	last 2 months	last 2 months	??	??
	transition to chronicity %	first day	entire period	entire period	??	??
Output Port - infectious biological material	faeces	no	1 - 10	50	possible	no
	blood	++++	-	-	-	+++
	genital secretions	+ viremia 1 day	+++	++	+	--
		-	+++	++	?	-
Mode of transmission	fecal-oral	+	-	-	-	+
	by blood	rarely	+	+	+	-
	sexual contact	+	+	rarely	+	
	vertical	-	+	rarely	+	-
Imunization		Inactivated hepatitis A vaccines	active + passive imunization	no	no	no