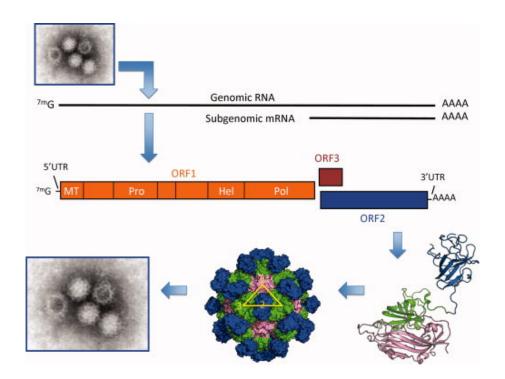
Molecular Epidemiology of Hepatitis E Virus in Israel

Nili Daudi Liver Unit,Hadassah-Hebrew University, Jerusalem, Israel

Hepatitis E Virus

RNA Virus ~7.2 Kb length 3 ORF's-ORF 1,2,3



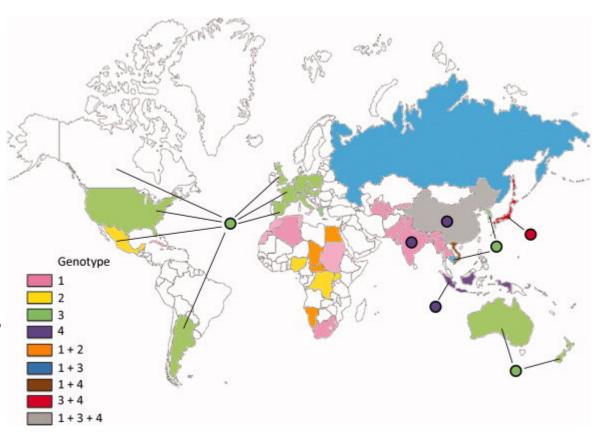
Distribution of HEV genotypes

4 genotypes identified for HEV

Genotype 1 and 2 are restricted to human

Genotypes 3 and 4 are zoonotic and have a broader host range

Interspecies transmission has been demonstrated for HEV genotypes 3 and 4



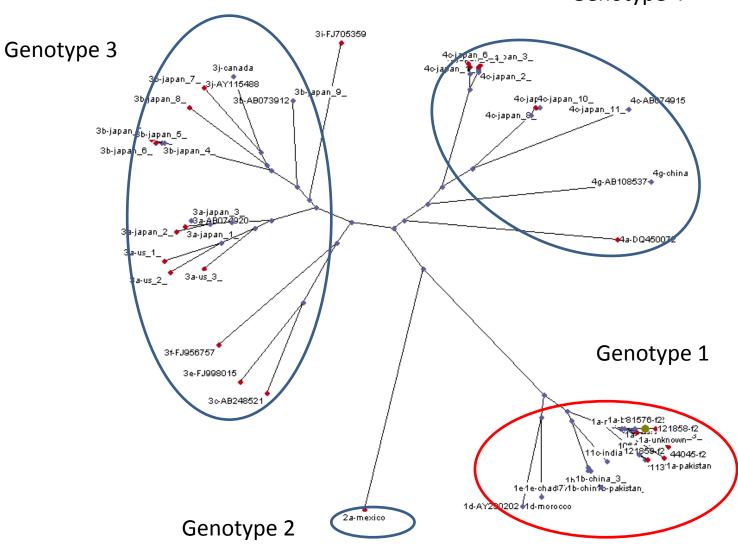
HEV Prevalence in Israel

October 1996-February 2013

- Total 580 samples tested for HEV-RNA
- •51 were positive for HEV-RNA 51/580 (8.8%)
- •14 samples sequenced (6 travel related, 4 foreign workers and 4 non travel related)

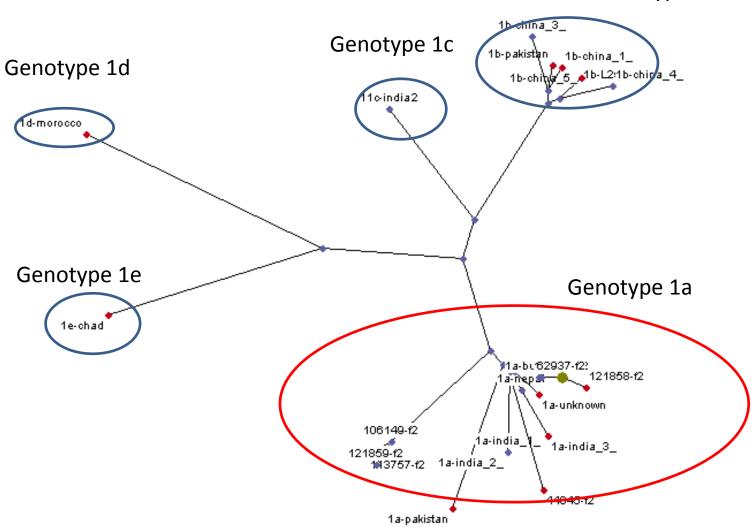
Distribution of HEV genotypes (I)



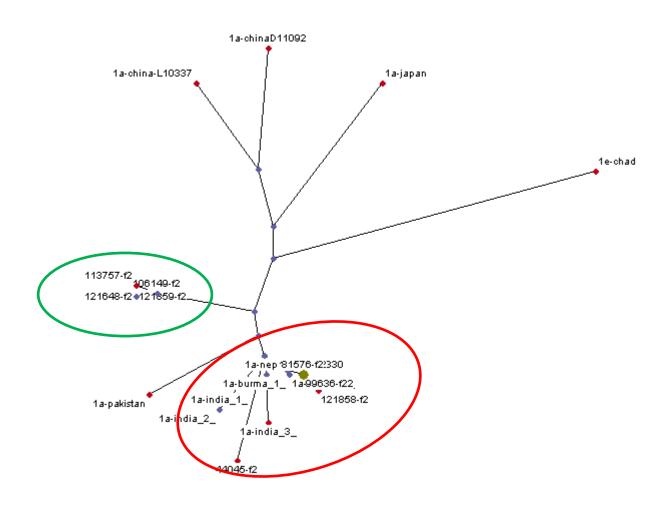


Distribution of HEV genotypes (II)



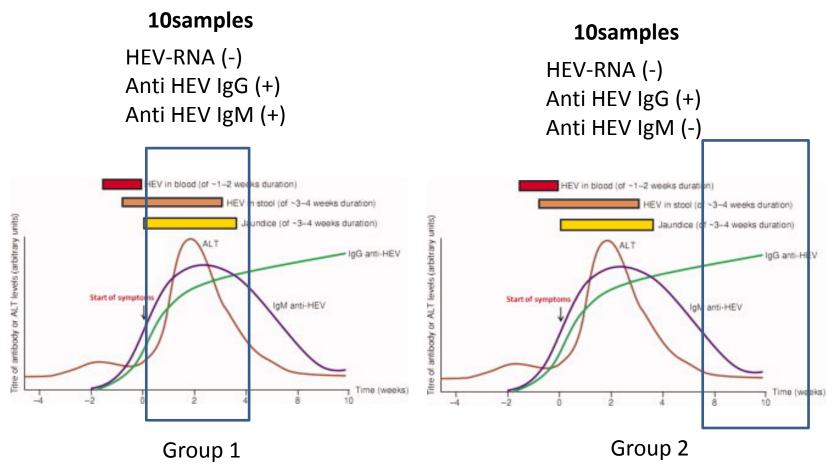


Distribution of HEV genotypes (III)



Serogic diagnosis anti HEV IgG and anti HEV IgM

316 samples tested for anti-HEV IgG and anti-HEV IgM



conclusions

- •HEV RNA is identified in Israel, in both travelers and non travel related patients.
- All samples identified as genotype 1a
- Diagnosis of HEV infection should be confirmed by evidence for both HEV RNA and serological tests for anti-HEV antibodies

Co-Workers

Nili Daudi Tamar Lachish Ortal Erez Eli Schwartz Daniel Shouval