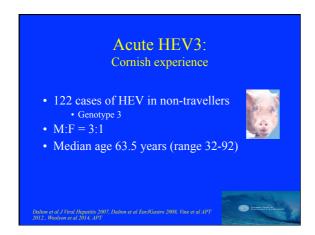
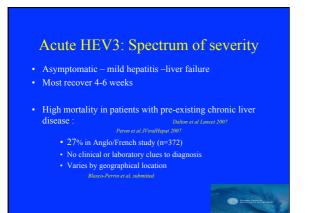


Acute viral hepatitis in Cornwall, UK

1. Acute HEV
2. Seronegative hepatitis
3. EBV hepatitis
4. Acute HBV
5. HAV
6. Acute HCV



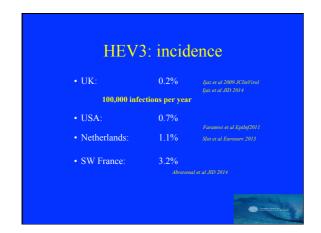
Acute HEV3: symptoms **COMMON** LESS COMMON • Jaundice Pruritis Anorexia •Weight loss Lethargy •Headaches Abdominal •Arthralgia pain •Neurological (n=9) Vomiting •No symptoms • Fever • Myalgia

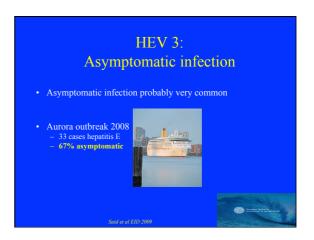


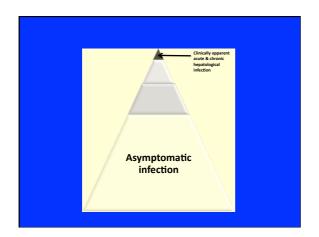


HEV: demographics and outcome UK France Japan Cases 40 23 46 54.4 yrs 59.6 yrs Mean age 65 yrs % males 77.5% 73.9% 87% Deaths 7.5% 8.7% 10.8% Liver 5% 8.7% 10.8% deaths

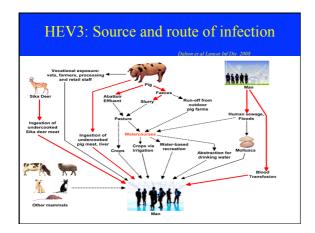








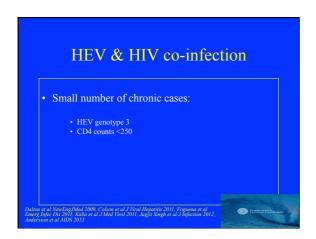
Re-infection with HEV • Genotype 4, China: • 20% are re-infections • More common in females • Milder hepatitis than primary infection • IgM negative, IgG and PCR positive Remove at al Lancer 2012 • Genotype 3, Toulouse, France: • Reinfections quite common • IgG <7 WHO units/ml

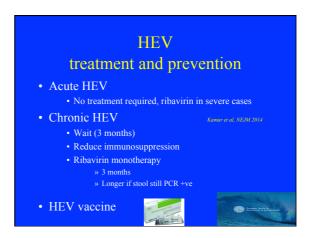


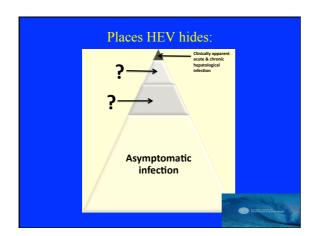
Acute HEV: Summary Older males, Genotype 3 Porcine zoonosis, route of infection uncertain Range of severity High incidence of infection Asymptomatic infection is common Prognosis poor in chronic liver disease

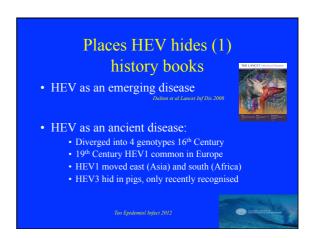
Chronic HEV infection: Transplant recipients Chronic HEV3 infection in transplant patients No symptoms, anieteric, ALT 200-300/IU/L Chronicity occurs in 60% of HEV3 infections, Genotype 3 only Tacrolimus Low platelet count Kanuar et al Gastroenterology 2011 Cirrhosis rapidly progressive Prevalence of chronic HEV High in French transplant centres: 1-2% For et al ST 2013 Kanuar et al Transplant 2010 Cirrhosis rapidly progressive Prevalence of chronic HEV High in French transplant centres: 1-2% For et al ST 2013 Kanuar et al Transplant 2010 Kanuar et al Transplant 2010 According 1007 2013 Kanuar et al Transplant 2010 Cirrhosis rapidly progressive According 1007 2013 Kanuar et al Transplant 2010 According 1007 2013 According 1

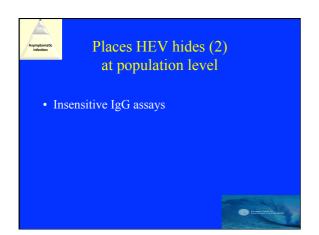
Chronic HEV infection: Haematological malignancy • 6 cases in Toulouse: • 3 acute, 3 chronic Toution et al ACT 2010 • Allogeneic stem cell transplants, Netherlands: • 8 cases, 5 chronic HEV • 4 died with HEV viraemia

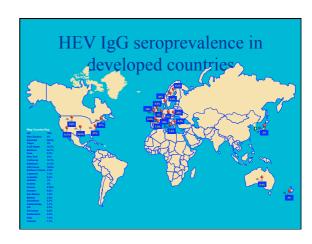


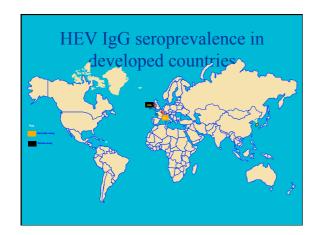


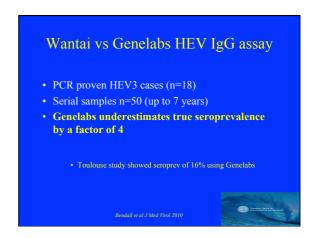


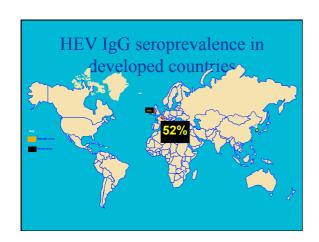




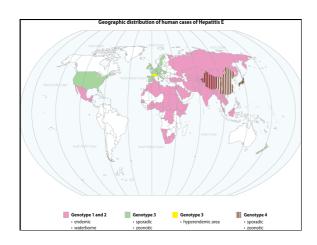


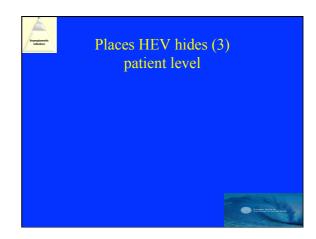


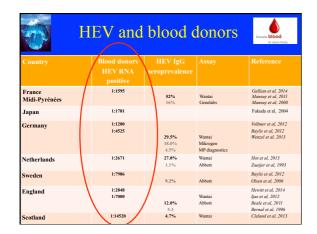


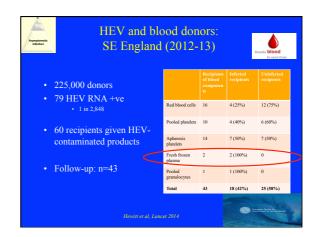


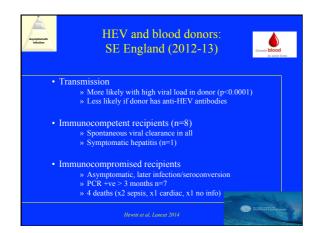


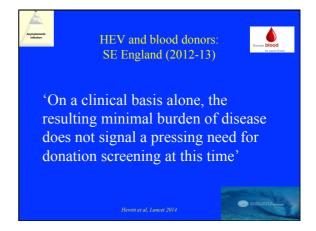




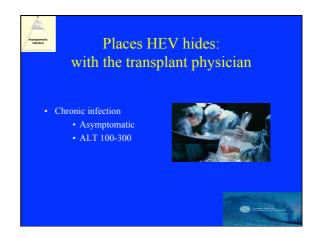


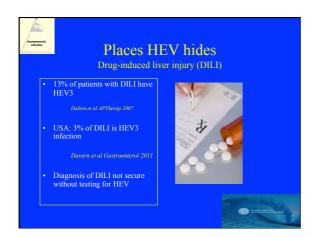


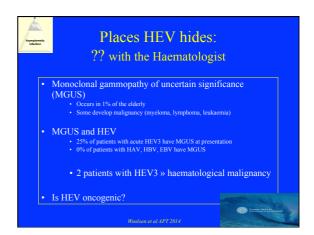


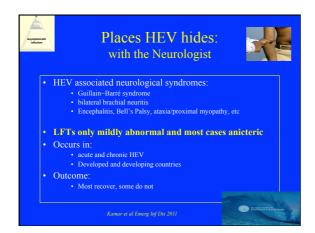


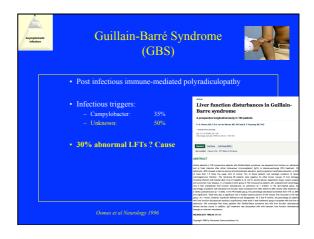


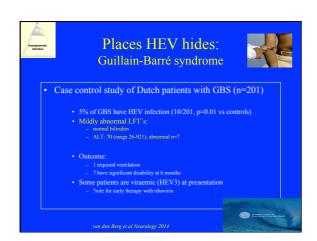


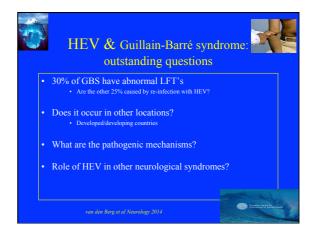


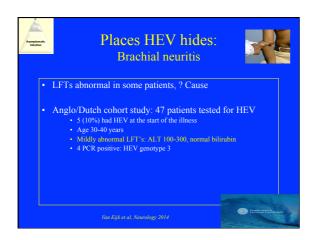


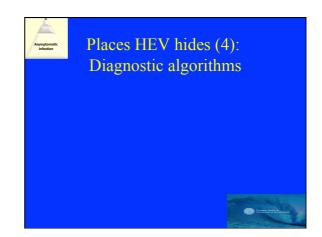


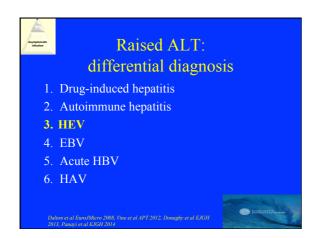


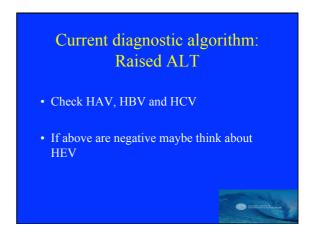


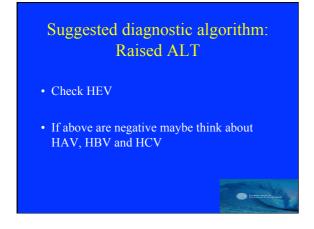


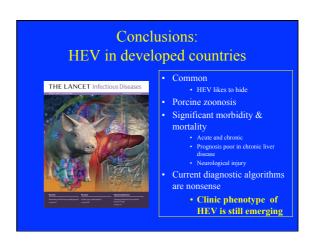












Acknowledgments

- Lemon Street Gallery, Truro
- Sheila Sherlock Travelling Bursary 2011





- Office of Chief Scientist Scotland
- Duchy Charity
- British Medical Association



research collaborators

- Colleagues in SW Englan
 - Dr Richard Bendall
 - Dr Frances Keane (Truro), Dr Mark Gompels (Bristol)
- UK, national:
 - Malcolm Banks: Veterinary Laboratory Association (Surrey
 - Linda Scobie: Glasgow Caledonian University
 - Prof Richard Tedder, Dr Samreen liaz: Health Protection Agency (London)
 - Filio Barnes: University of Oxford
- Boh Purcell/Sue Emerson NIH Bethesda Mary
 - · Bart Jacobs and colleagues, Erasmus MC and Nijmegen, The Netherland
 - Alessandro Bartoloni Florence Italy
 - Prof Ting Wu, Xiamen University, China
 - · Jacques Izopet, Nassim Kamar & colleagues, Toulouse, France