

**Concluding remarks on the prevention and
control of viral hepatitis A, B and C in Israel
1972-2012**

Daniel Shouval

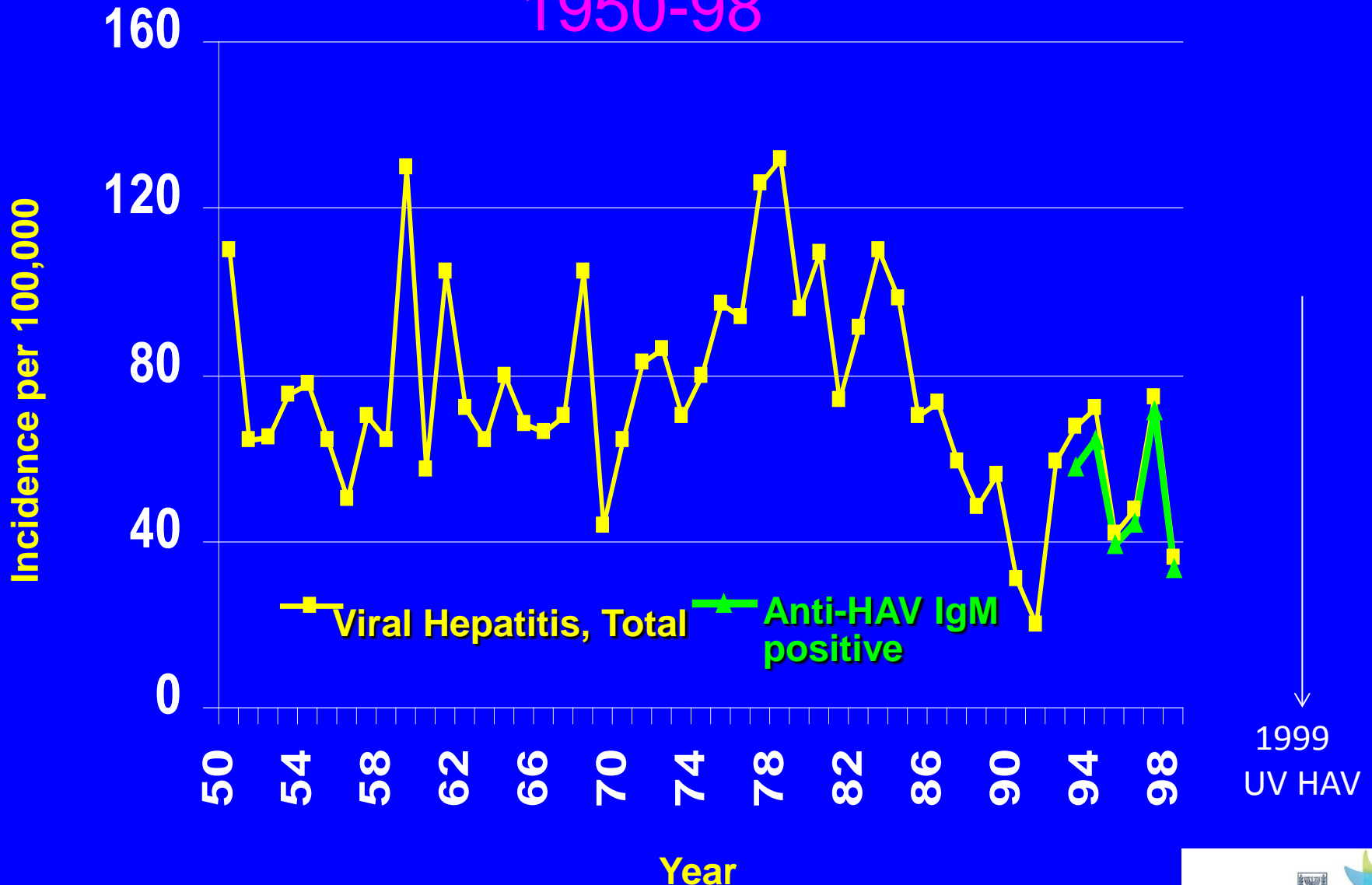
Selected Milestones in Viral Hepatitis and HCC - Israel

- **Early 1970s** – Screening of blood products for HBsAg
- **1982** - ISG for prevention of hepatitis A in IDF
- **1982** - Introduction of first generation plasma derived hepatitis B vaccines in healthcare workers
- **1983** - Synthesis of hepatitis B surface antigen in mammalian cells: expression of the entire gene and the coding region
- **1989** – First chemo-embolization for HCC at Hadassah
- **1991** - First successful liver transplantation in Israel
- **1990s** –Licensure of the PreS/S hepatitis B vaccine
- **1992** - Universal vaccination against HBV in newborns
- **1992** - Screening of blood products for HCV
- **1999** – Universal vaccination against HAV in toddlers
- **2005** - Gradual approval of NUCs
- **2011**- Approval of protease inhibitors for chronic hepatitis c

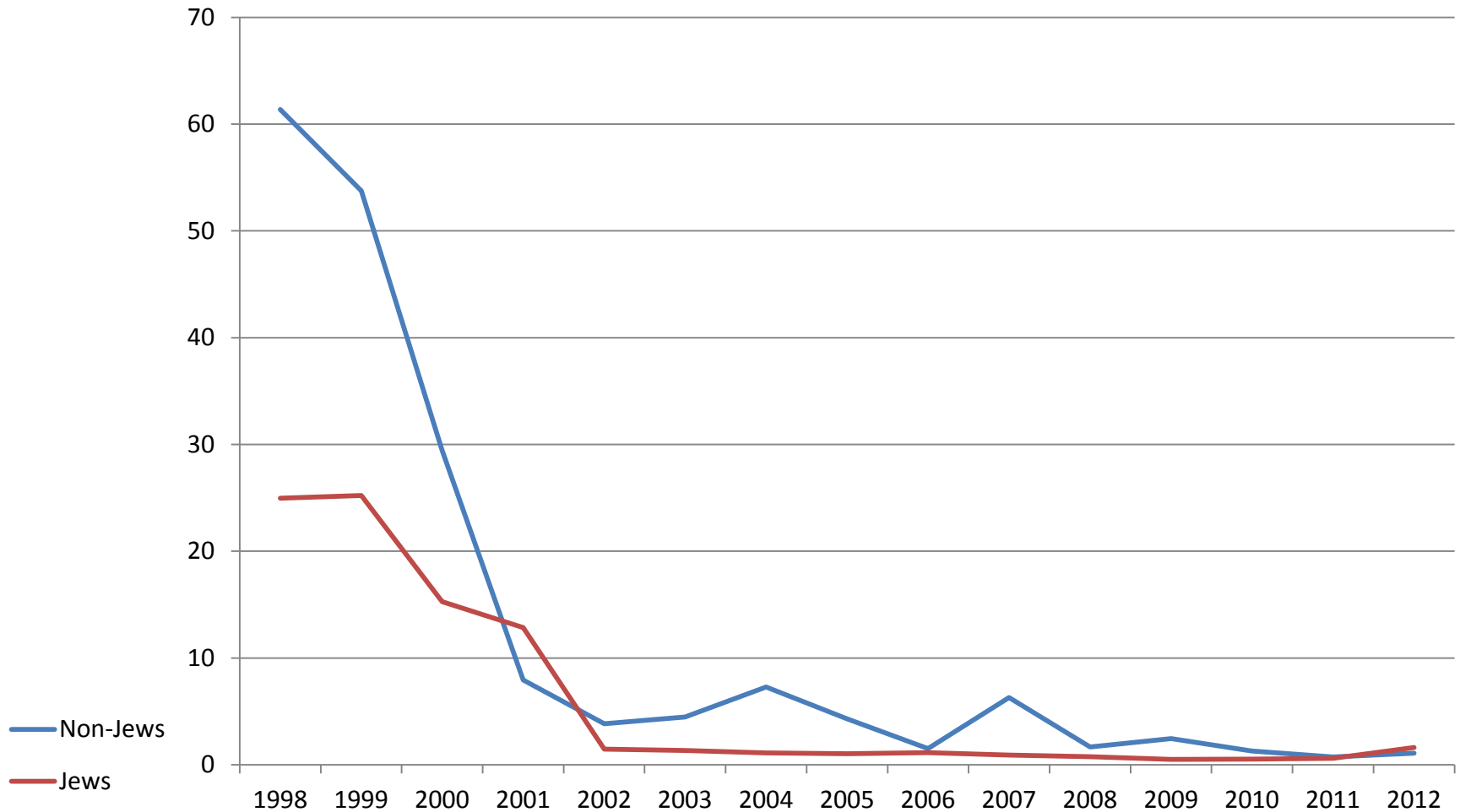
Progressive improvement in public health measures for prevention and treatment of viral hepatitis 1950-2012

- Surveillance
- Blood and blood product safety
- Safety of interventions in the healthcare system
- Vaccination
 - HBV
 - HAV
- Access to up-to-date anti-viral agents for HBV and HCV
- Introduction of liver transplantation in 1991
- Surveillance and treatment of hepatocellular carcinoma

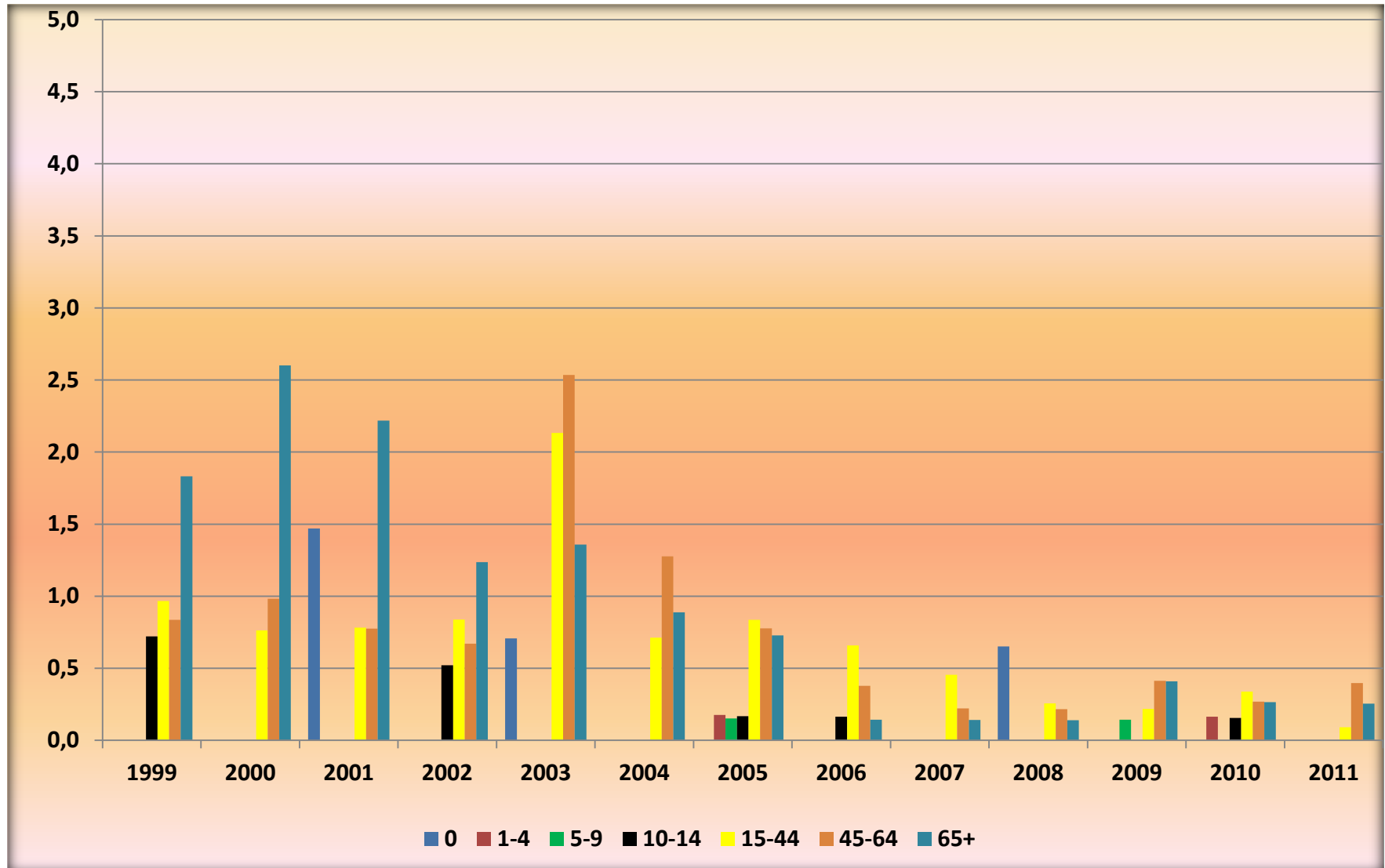
Annual Incidence of Hepatitis, Israel 1950-98



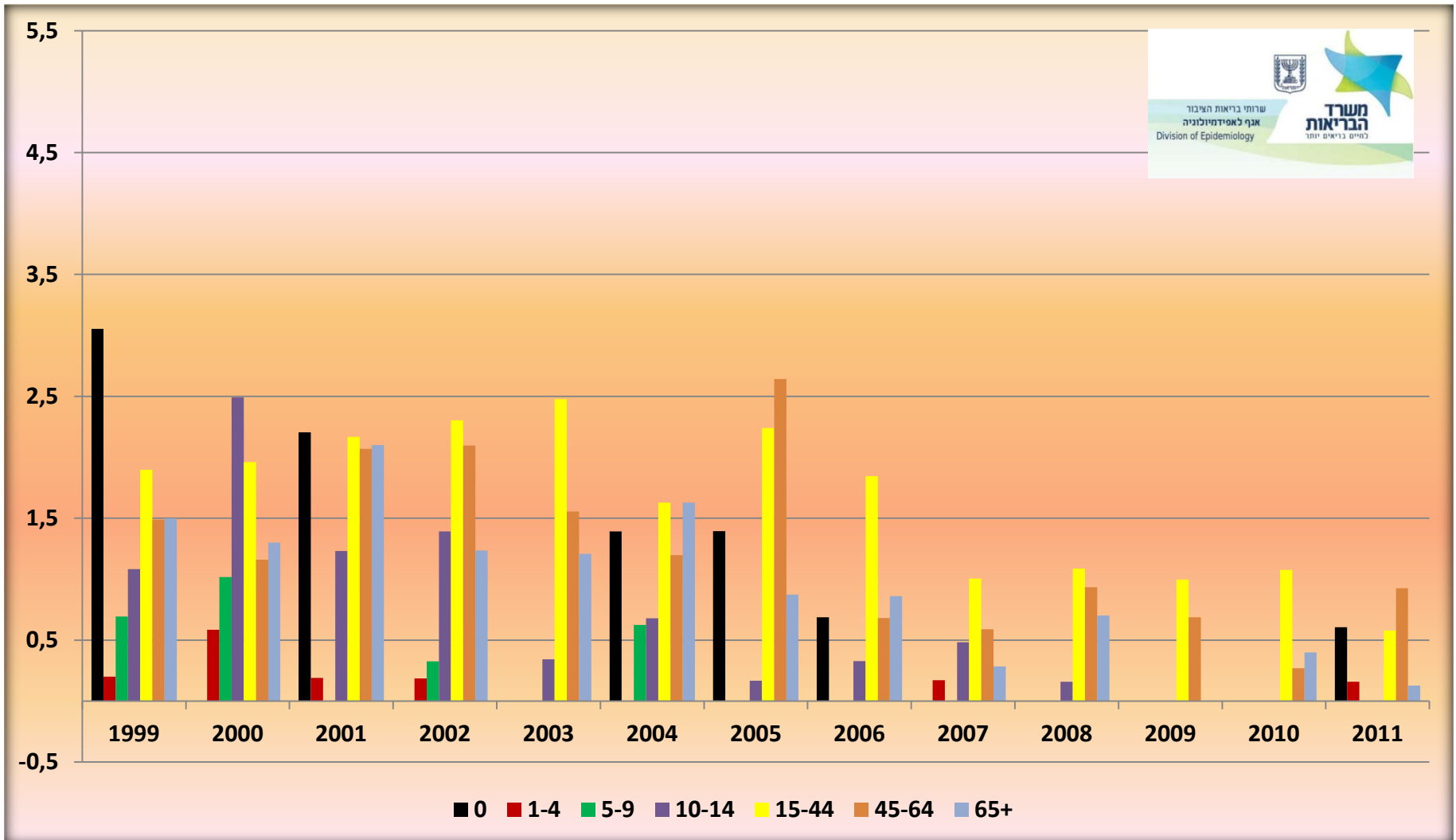
Incidence of acute HAV in Israel, 1998 – 2012, rate/100.000, by population group



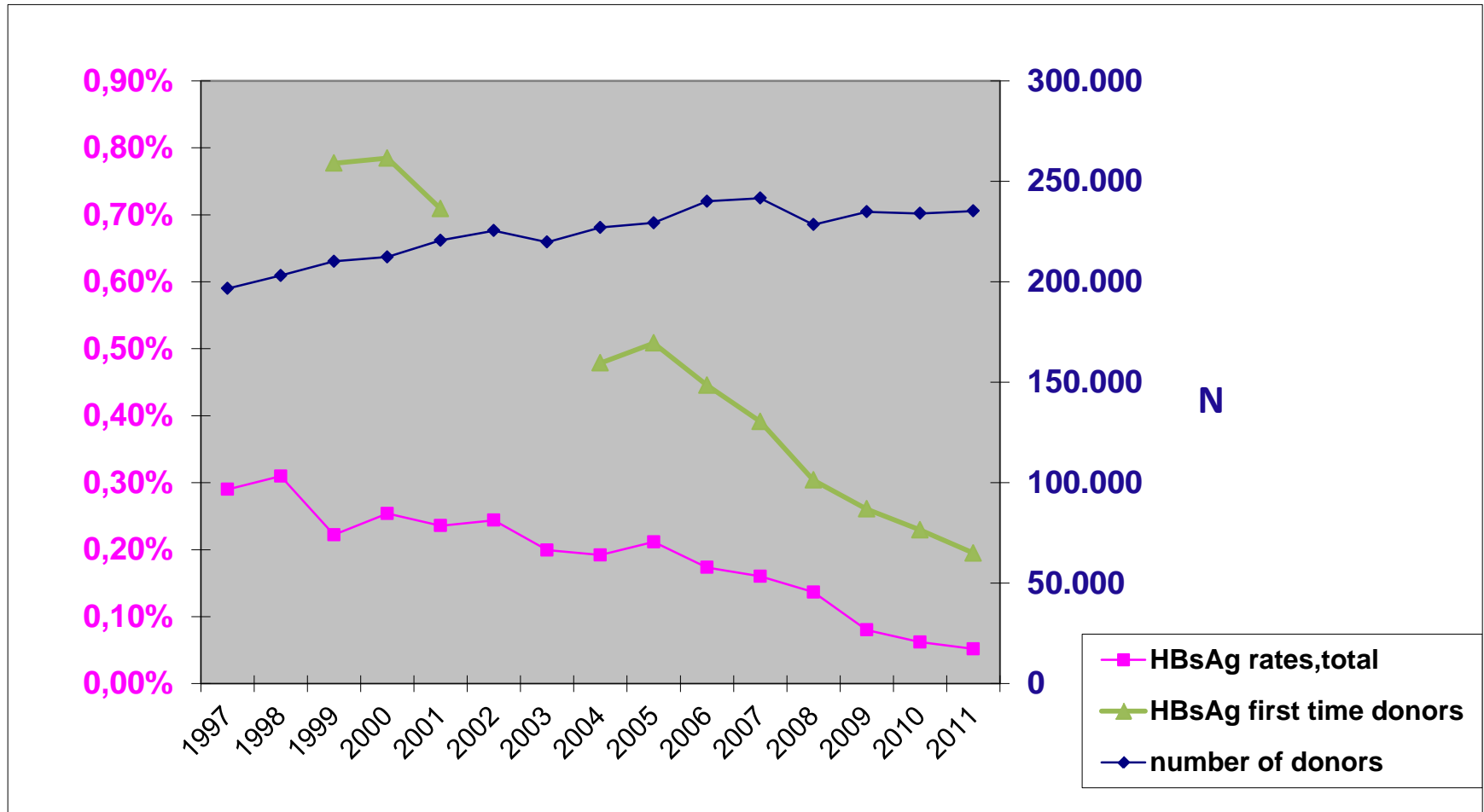
Incidence of acute HBV in Israel, 1999 – 2011, rate/100.000, by Age-groups



Age adjusted incidence of acute HCV in Israel 1999 – 2011, by Age-groups

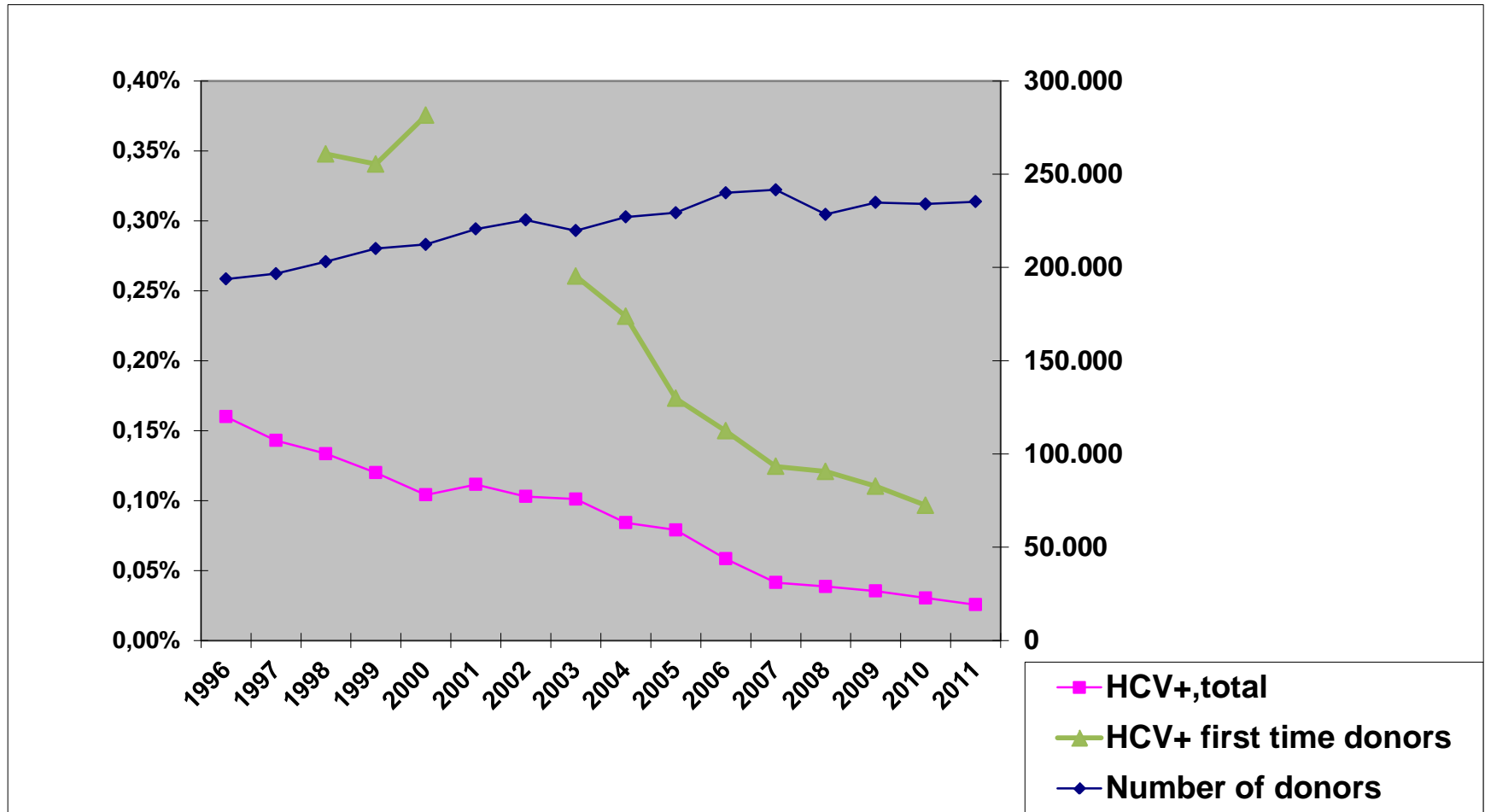


Detection of HBV in Israeli blood donors (1st time and total donors)



Source : MDA Israel Blood Banking Services, 2012-E.Shinar, V.Yahalom

Detection of HCV in Israeli blood donors (1st time and overall donors)



Source : MDA Israel Blood Banking Services, 2012-E.Shinar, V.Yahalom

Thank You