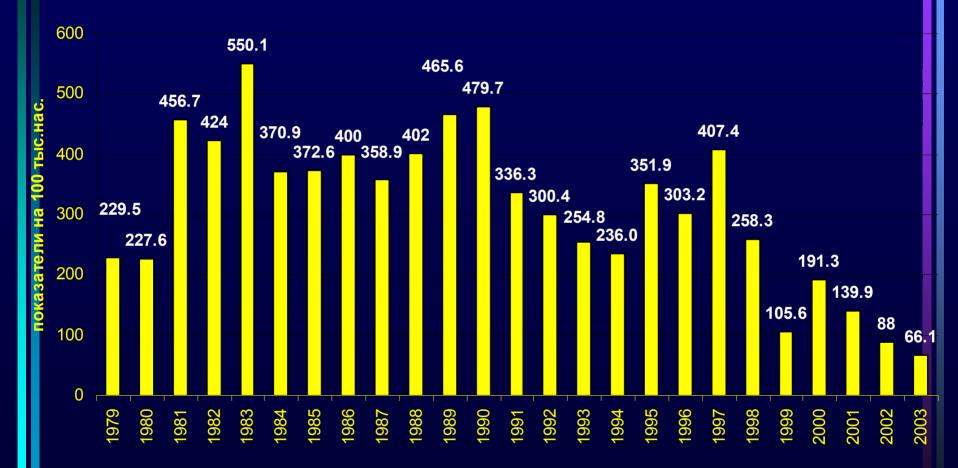
# Hepatitis B Immunization Program in the Republic of Kazakhstan

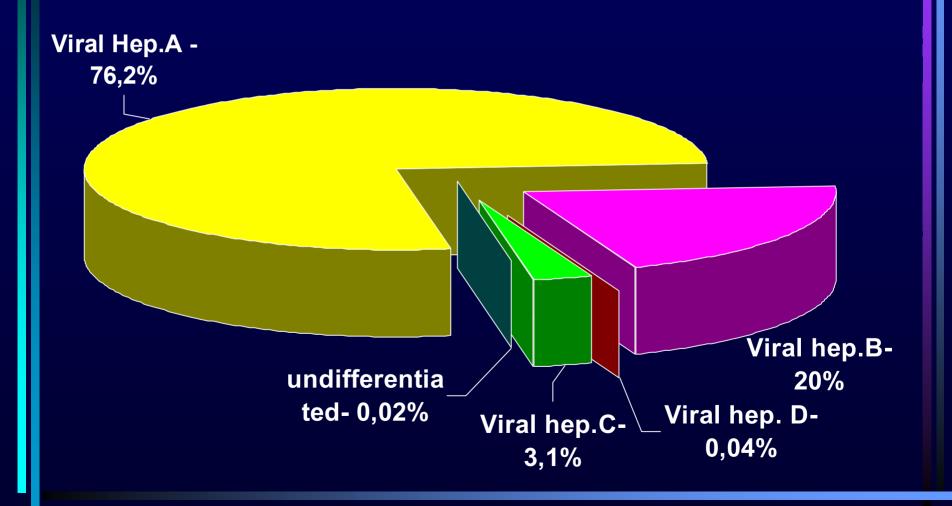
Republican Sanitary Epidemiological Station, Kazakhstan



## Incidence of acute viral hepatitis by years, 1979 – 2002, Kazakhstan.



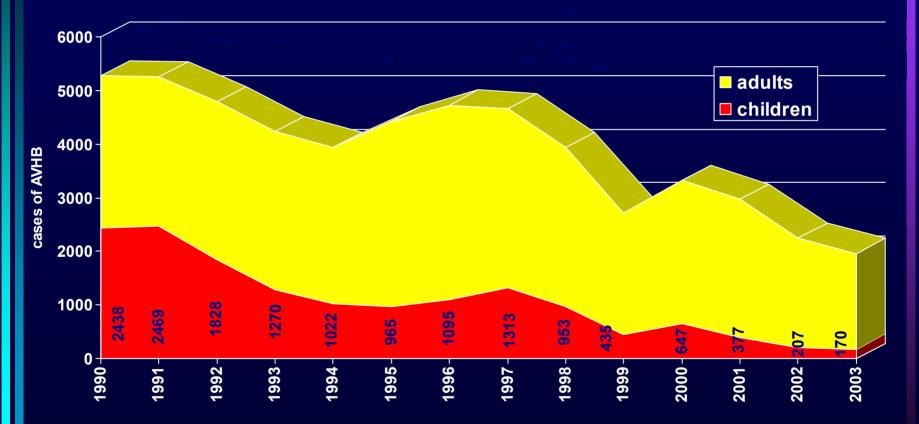
### Etiology of acute viral hepatitis, Kazakhstan, 2003



#### Incidence of acute viral hepatitis B, Kazakhstan, 1990 2003.



# Cases of acute viral hepatitis B by children and adults, Kazakhstan, 1990-2003



# **Normative documents currently in force**

 Ukase of the President of RK # 3956 as of May 26th, 1998

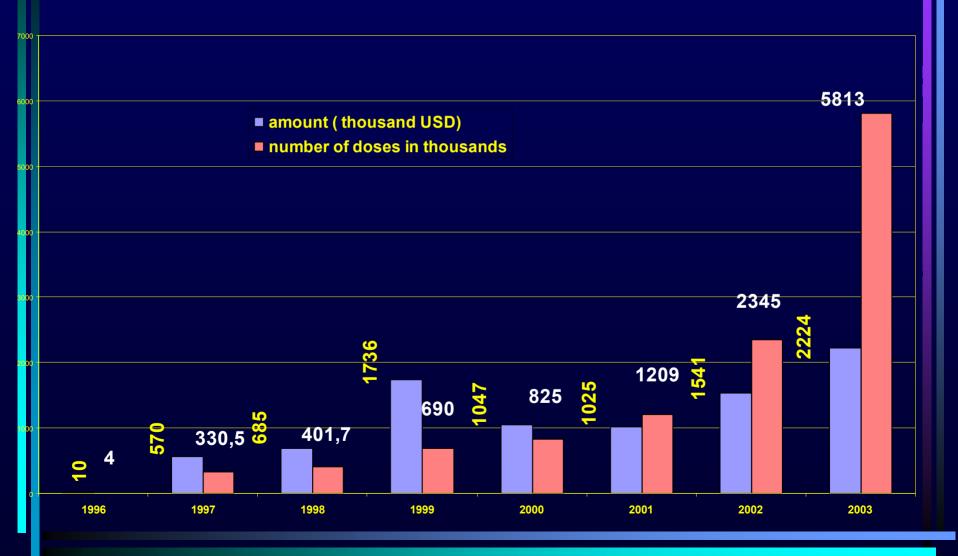
 Prikaz of the Ministry of Health, RK, # 404 as of August 15<sup>th</sup>, 1997 Vaccination scheme for newborns currently accepted in Kazakhstan 0 - 2 - 4 months

Vaccination scheme for older people 0 - 1 - 6 months Vaccines used in Kazakhstan immunization program

- «Engerix» -
- «Euvax-B» -
- «Hepavax Gen» Kor
- «Heberbiovac» -

Belgium Korea Korea Cuba

### **Purchases of hepatitis B vaccine, Kazakhstan**



# Hepatitis B-3 coverage among children under 1 year of age, Kazakhstan, 1998-2003

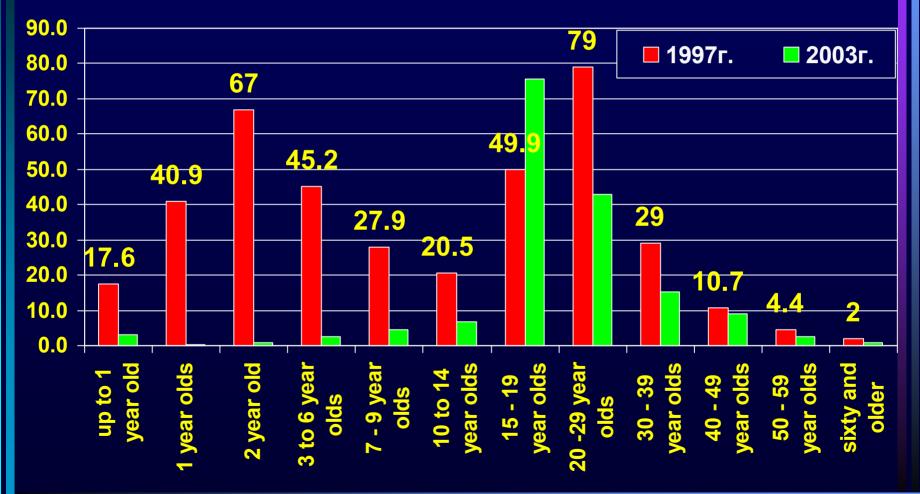
Years	Total number of children under 1 year of age	Vaccinated with the three doses of HepB vaccine	Coverage
1998	219240	213364	97,3%
1999	213879	204265	95,5%
2000	215376	212566	98,7%
2001	216743	213208	98,3%
2002	223855	220564	98,5%
2003	227380	221342	97,3%
Total	1 316 473	1 285 309	97,6%

#### "Catch up" hepatitis B vaccination coverage, Kazakhstan, as of 01.01.2004

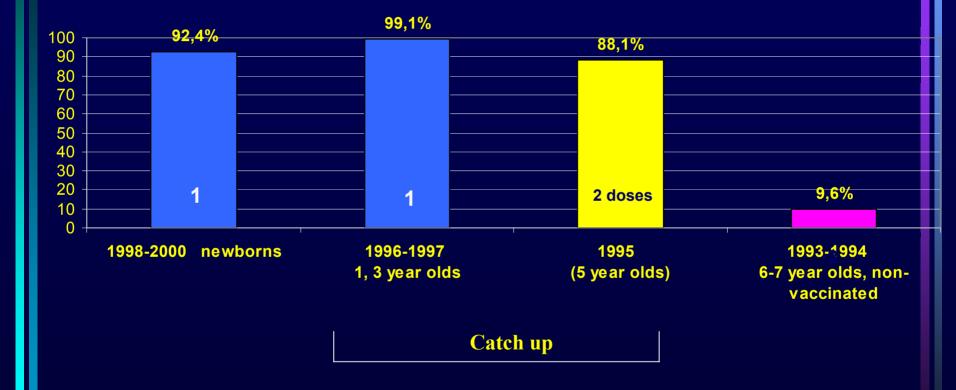
Groups	Number of people	Vaccinated with the three doses of hep.B vaccine	Coverage
Children born in 1997	225244	213981	<b>95,0%</b>
Children born in 1996	243626	234368	<b>96,2%</b>
Children born in 1995	261311	183378	95,2%
Medical workers	173815	139806	<b>80,4%</b>
Medical students	19849	12448	62,7%

# Incidence of acute hepatitis B in the different age groups in 1997 and in 2003, Kazakhstan

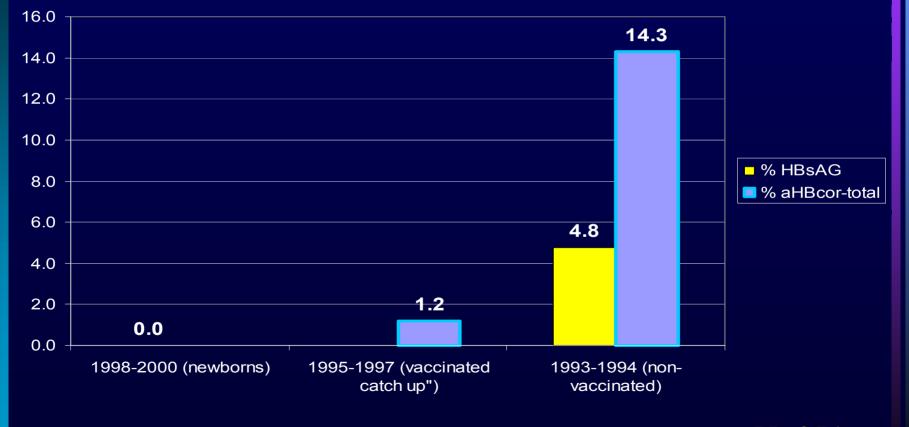
на 100 тыс.



# Anti-HBs prevalence among vaccinated and non-vaccinated children, Almaty, 2001



#### Identification of anti-HBcor total and HBsAg among children vaccinated and unvaccinated against HBV, Almaty, 2001



N=351

### Conclusion

- As a result of the implementation of the Hepatitis B Immunization Program 3 800 000 people were vaccinated with three doses of vaccine in the years 1998 – 2003
- The high hepatitis B coverage of newborn babies, catch up immunization of older children, adolescents and other "risk groups" that was achieved by the year 2004 helped us reduce the incidence of acute viral hepatitis B by 2,4 times as compared with the pre-immunization period, and by 6,4 times among children
- The high effectiveness of hepatitis B was immunization program was evaluated and confirmed
- The immunization program in Kazakhstan was developed and implemented thanks to the support of international organizations

### **Objectives for the future**

- Continue the routine immunization of newborns, adolescents and risk groups
- Attain the high level of immunization coverage of all the groups of population
- Hold epidemiological surveillance of viral hepatitis B as a vaccine regulated infection

### Acknowledgements

CDC, Central Asian Region

• WHO, European Regional Bureau

 Global Alliance for Vaccine and Immunization