

HAV vaccination programme in Puglia - Italy



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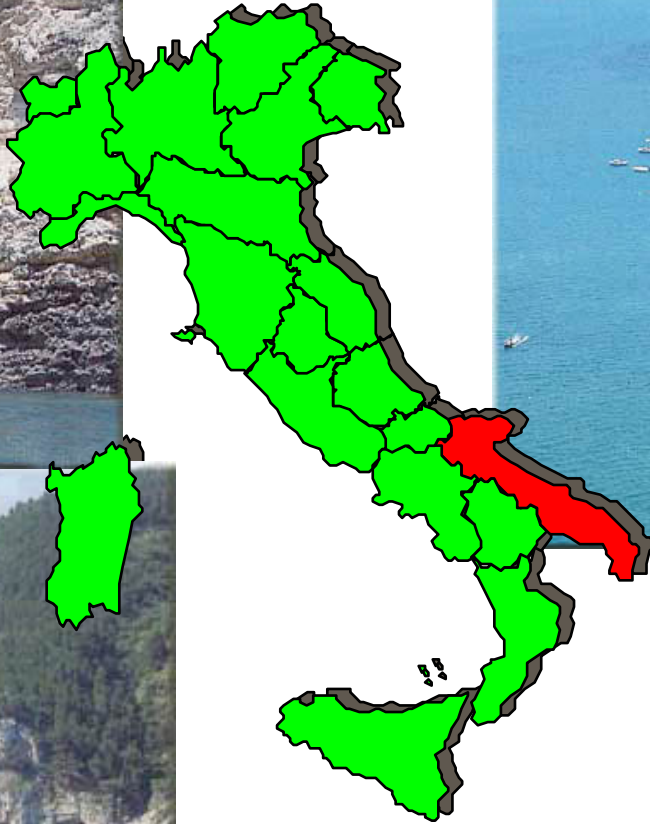
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Hepatitis A in Puglia

- ⌘ Epidemiology**
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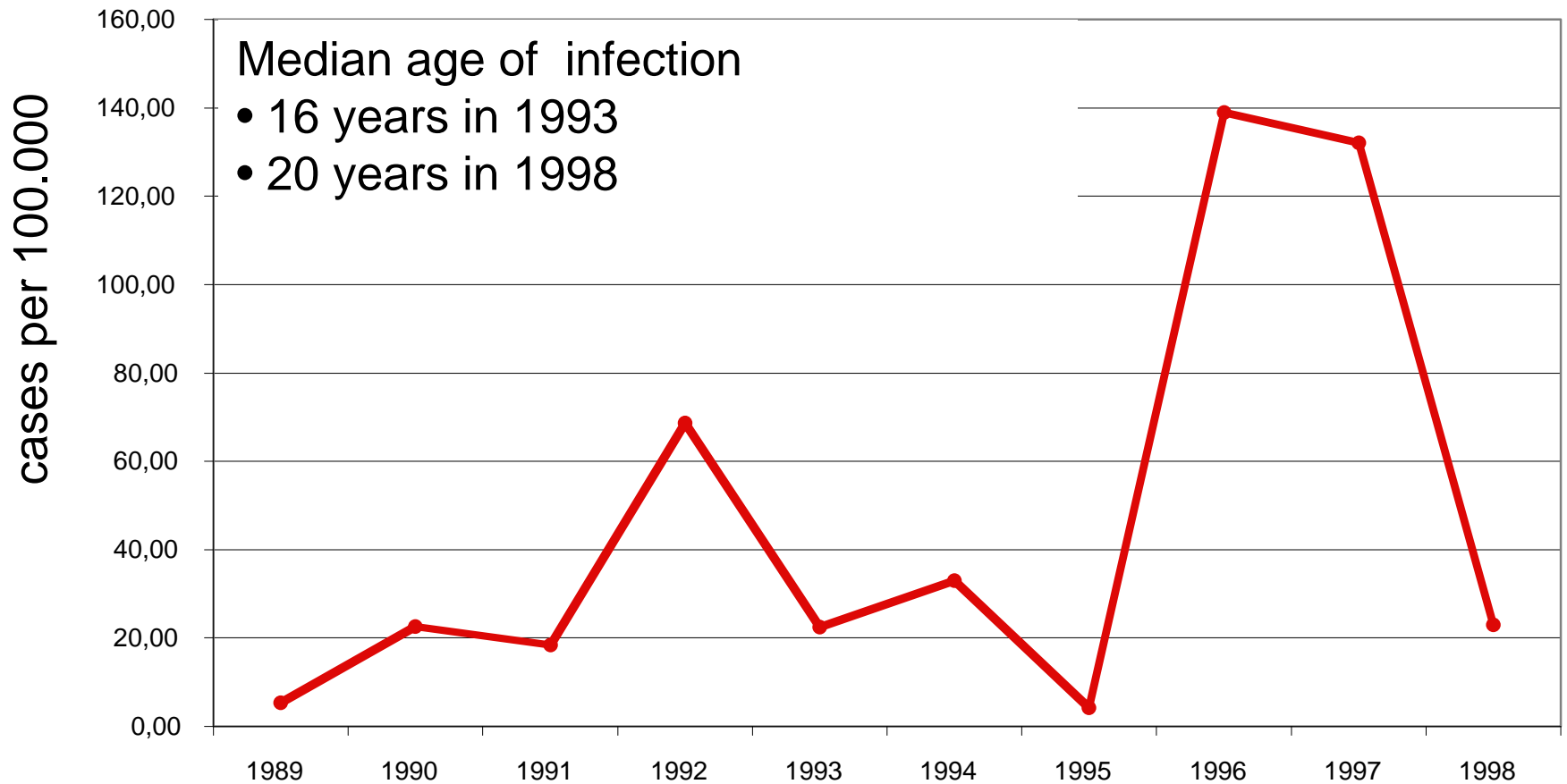
Puglia, South Italy



4M people
Pro-capita GDP 12k €

Hepatitis A in Puglia

1989/1998



Wet street market, *Bari*



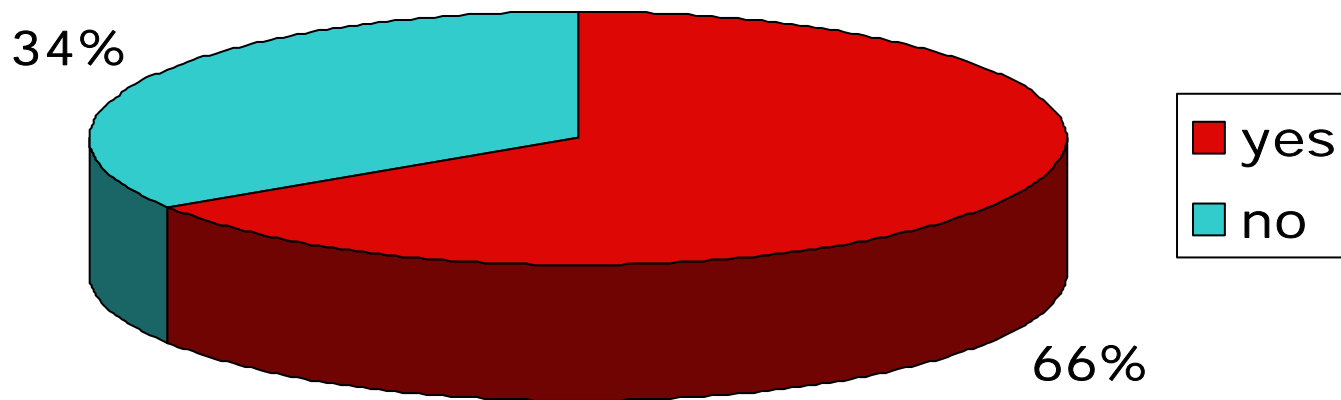
Wet street market, *Bari*



20-30% of mussels +ve for HAV (PCR)

Chironna M et al, 2002

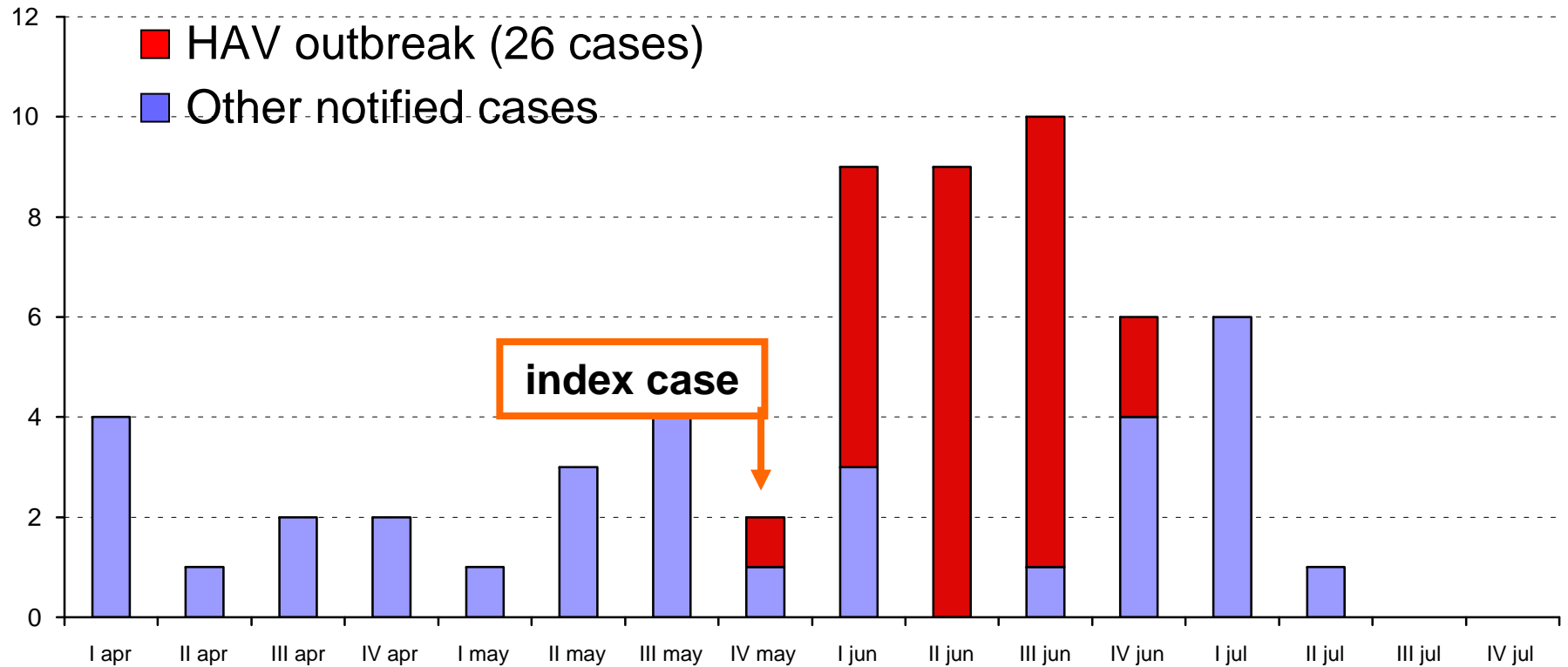
Enhanced HAV surveillance - 1997



“Did you eat raw sea-food during past two months?”

Lopalco PL et al, 2005

HAV outbreak linked to an infected food handler in Bari, July 2002



Raw sea-food role in spreading HAV in Puglia



- Raw sea-food consumption is important in **starting** the outbreaks
- Population susceptibility and other risk factors **sustain** the epidemic and maintain the situation of **endemicity** in the Region

Epatite A: cost analysis



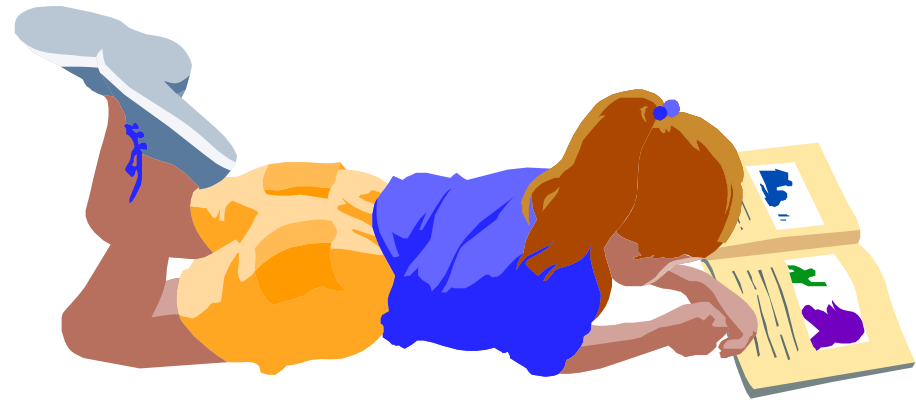
Average cost of a HAV case:
3,280 Euros

Cost of the 1996/97 outbreak in Puglia:
> 36,000,000 Euros

1998: universal HAV vaccination started in Puglia



toddlers at 15-18 months



Adolescents at 12 years

Adolescent vaccination schedule in Puglia until 2002

adolescent not yet vaccinated against HBV

7 th grade March/April	7 th grade April/May	8 th grade November
1[^] HAV+HBV	2[^] HAV+HBV	3[^] HAV+HBV
MPR	VZV*	dTaP

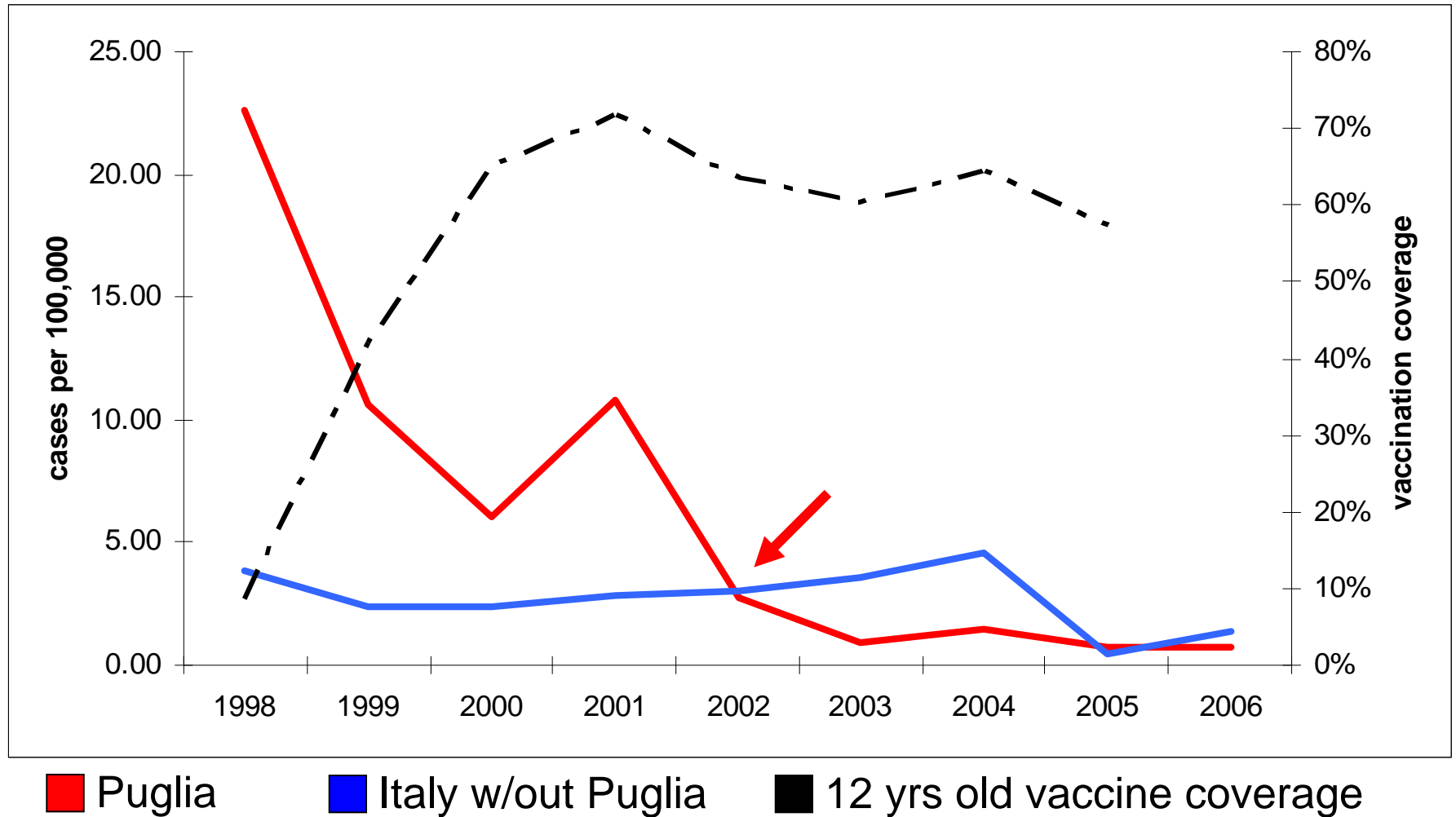
* boys and girls with negative history for varicella

Adolescent vaccination schedule in Puglia after 2002

7 th grade March/April	7 th grade April/May	8 th grade November to June
1[^] HAV		2[^] HAV
MPR	VZV*	dTaP

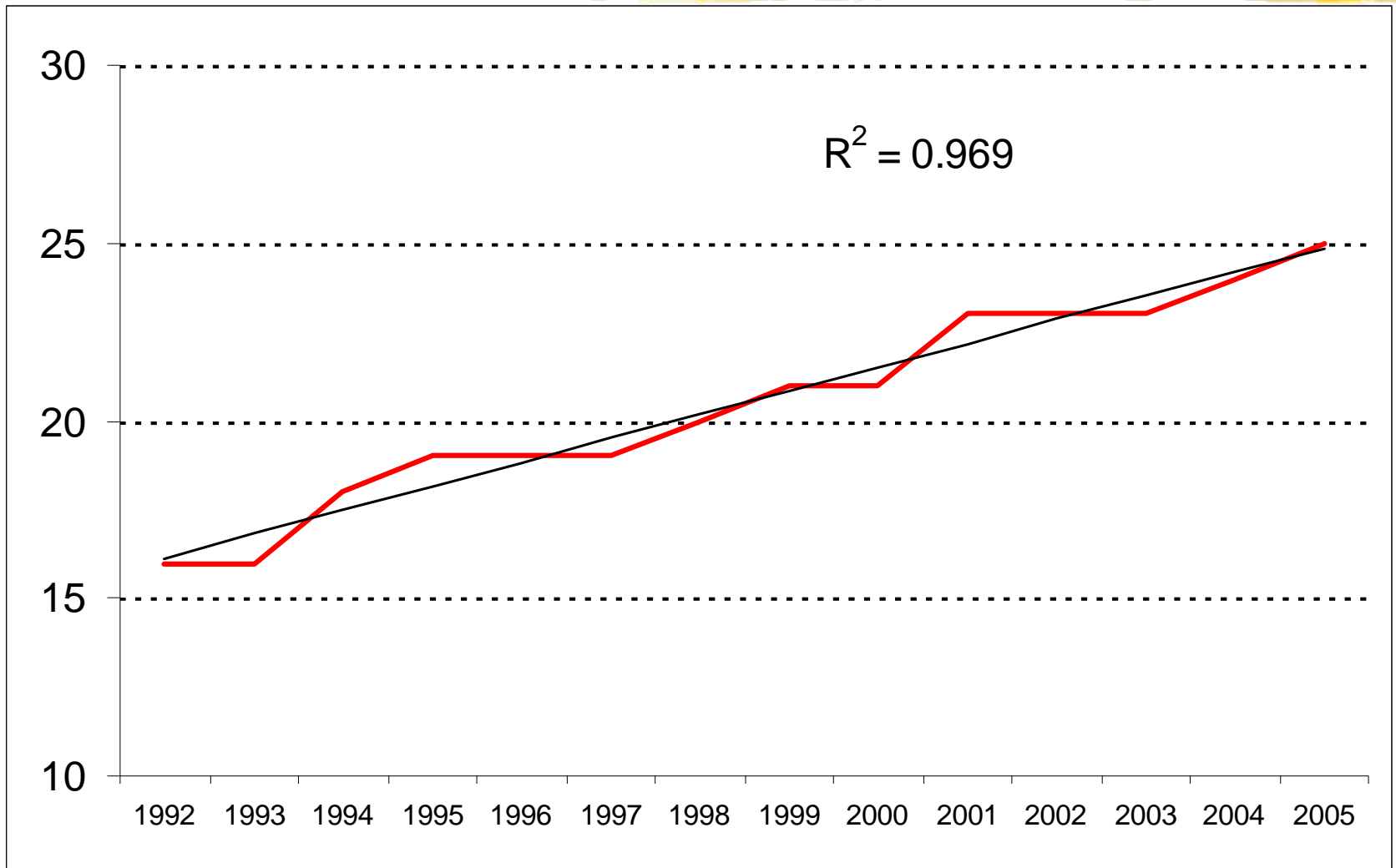
* boys and girls with negative history for varicella

HAV incidence after the start of immunization campaign



HAV in Puglia 1992/2005

median age of infection



Conclusions



- HAV incidence decreased after the introduction of universal vaccination
- Incidence reduction in all age groups suggests herd immunity effect
- Open questions
 - is the vaccination responsible for the current disease control?
 - catch up campaign?