

# *NEW VACCINES INTRODUCTION IN THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA*

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# FORMER YUGOSLAV REPUBLIC OF MACEDONIA

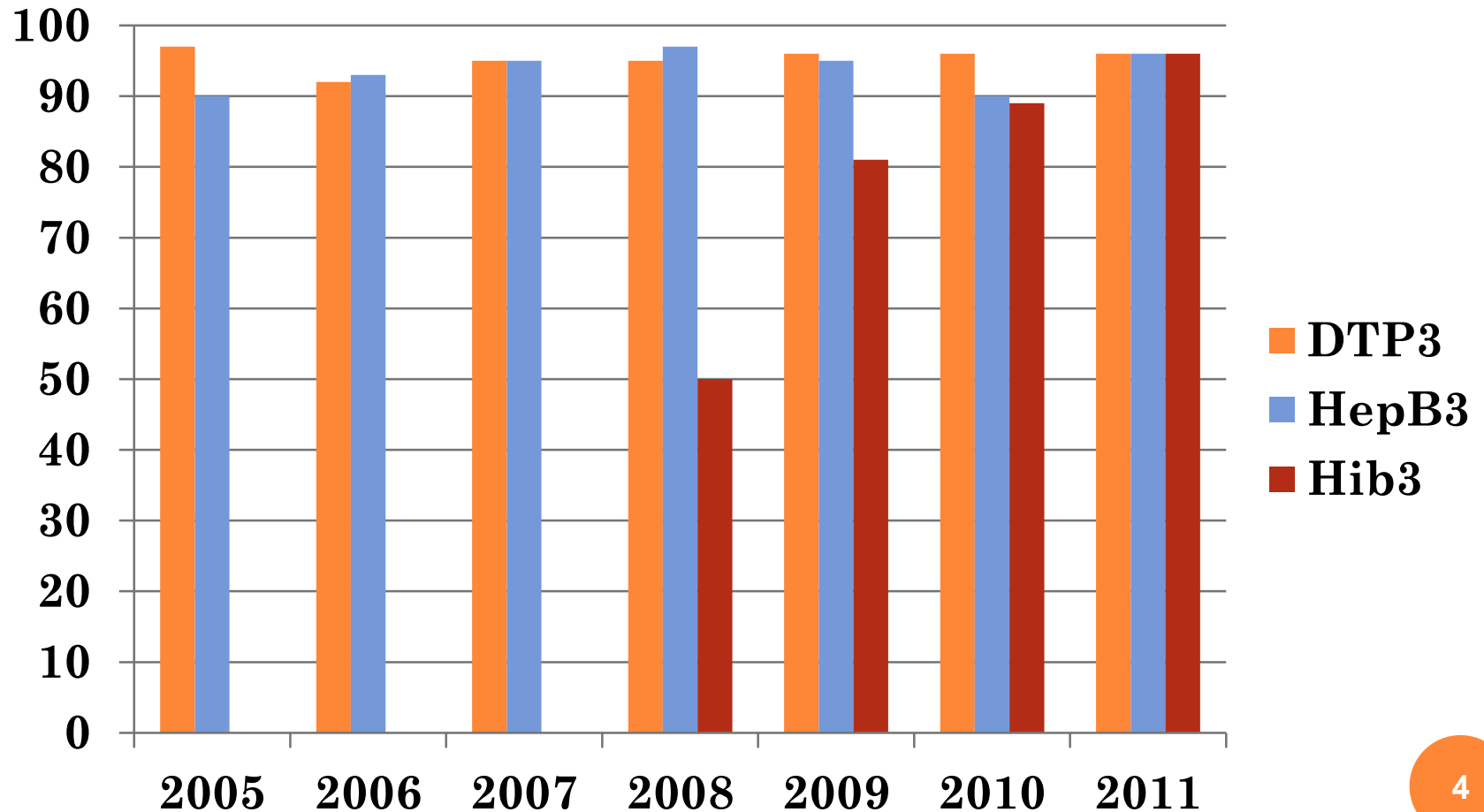
- Population:  
2.060.000
- New borns per  
year: 22- 23.000
- GNI: \$4,730, 2011
- Birth rate: **11.1**  
live births per  
1000, 2011
- Infant mortality:  
7.6 per 1000, 2011



# IMMUNIZATION SCHEDULE

Birth	BCG		Hep B
1 mth			Hep B
2 mth	DTwP	Hib	OPV
3 mth	DTwP	Hib	
3.5 mth			OPV
5 mth	DTwP	Hib	OPV
6 mth			Hep B
12 mth		MMR	
18 mth	DTwP	Hib	OPV
4 yr	DTwP		
6 yr		MMR	

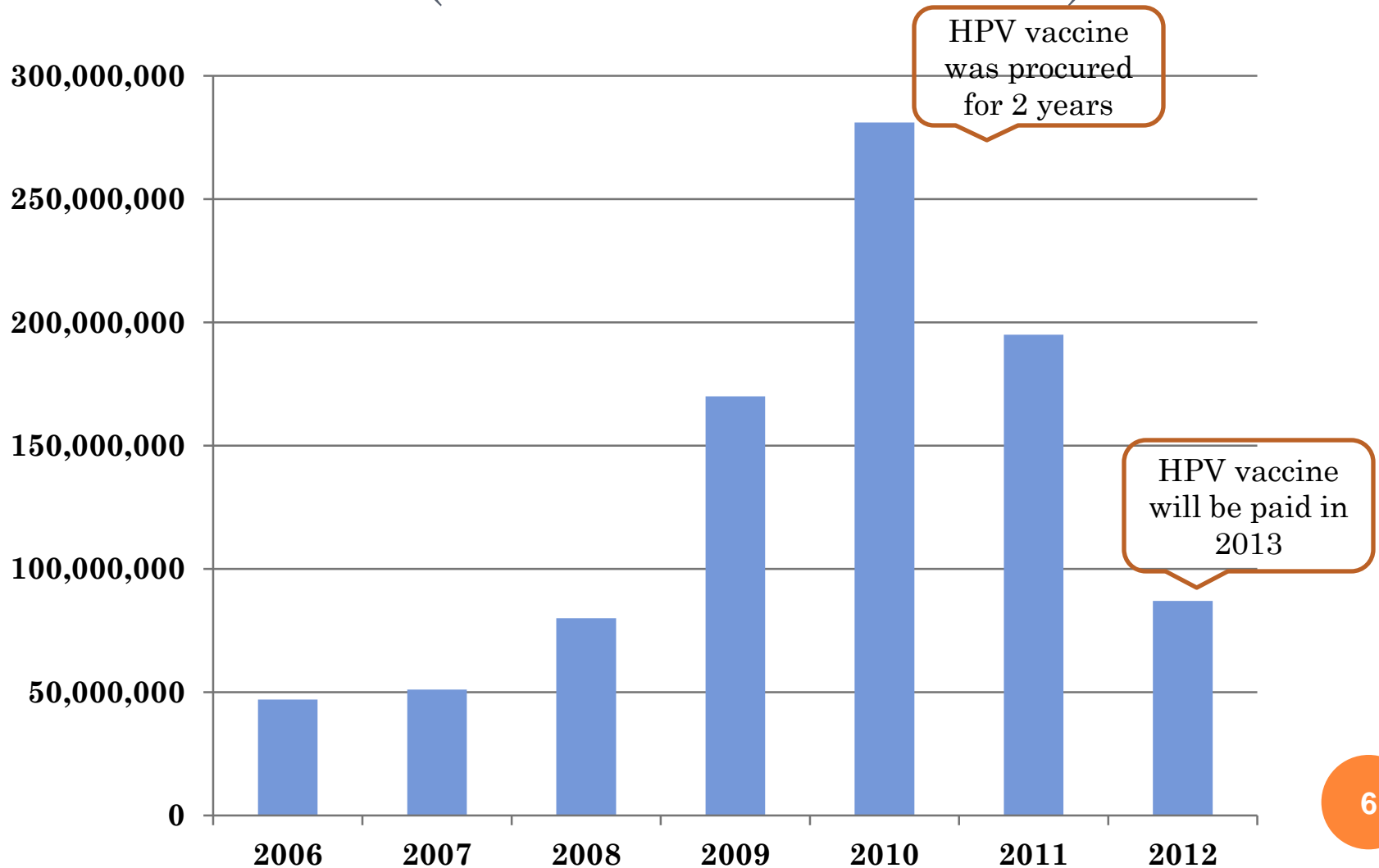
# DTP3, HepB3, Hib3 COVERAGE, 2005-2012



# INTRODUCTION OF NEW VACCINES

- 2004 - Hepatitis B vaccine
  - 2008 – Hib vaccine
  - 2009 – HPV vaccine
  - 2012-2020 - National Multiyear Immunization Strategy:
    - Hexavalent / pentavalent vaccine – IPV, DTaP
    - Pneumococcal vaccine
    - Rotavirus vaccine
- Recommended by NITAG**
- Subject to allocation of additional financial resources**

# IMMUNIZATION PROGRAM BUDGET, PROCUREMENT OF VACCINES 2006-12 (MKD: 1 USD=50 MKD)



# Immunization financing and procurement

- Two sources of immunization and vaccine financing: MoH budget and national health insurance
  - Separate line in the MoH budget for procurement of vaccines
  - Injection supplies are procured from the National insurance budget available to the health facilities
- Procurement of vaccines
  - MoH is in charge
  - International open tender
  - Payment after vaccines supplied

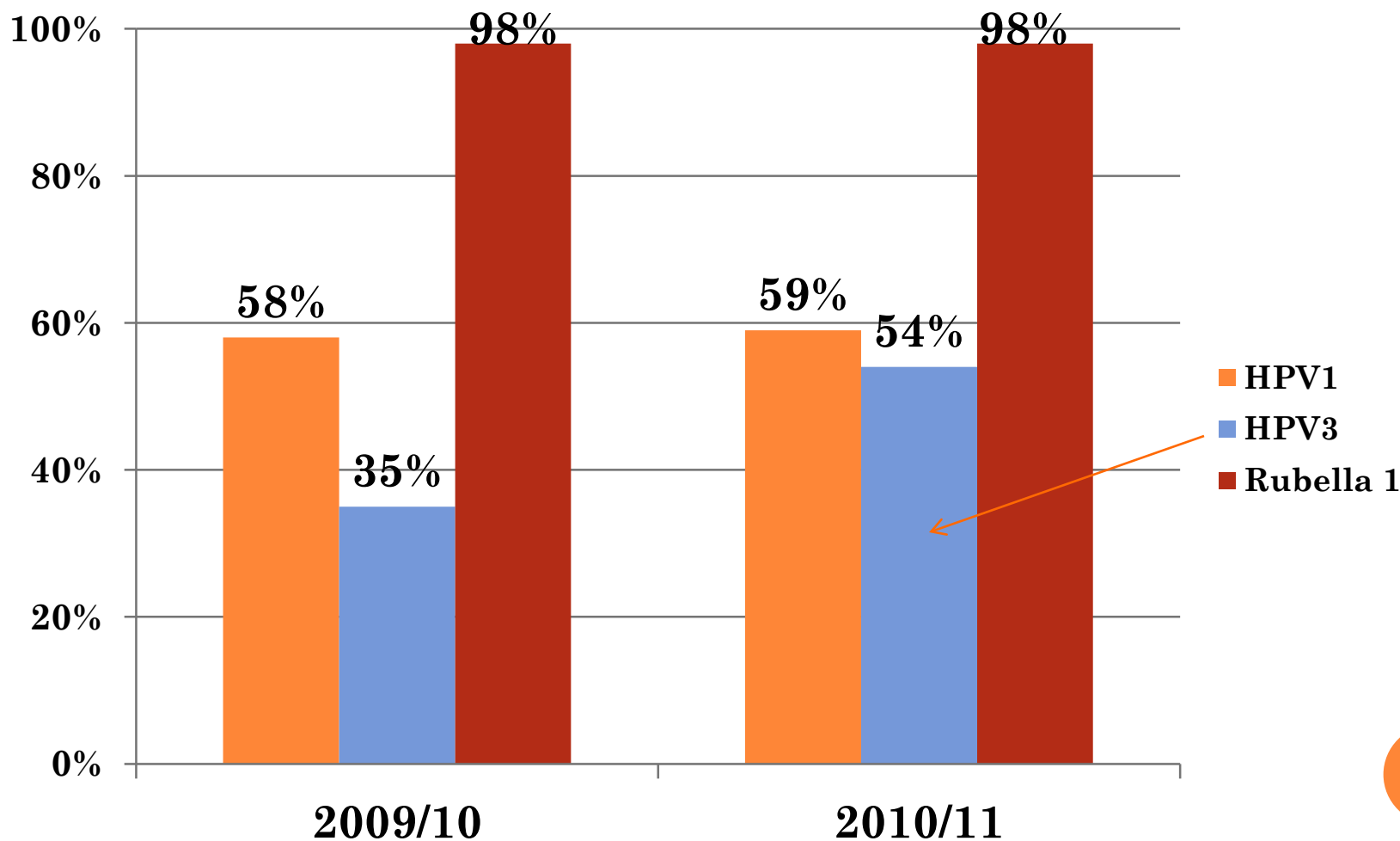
# MAIN BARRIERS FOR INTRODUCTION OF NEW VACCINES

- High price of new vaccines:
  - HPV vaccine - €75 per dose
  - Pneumococcal , rotavirus vaccines – over €70 per dose
- National law barriers for procurement through UNICEF:
  - payment must be after the delivery
  - wholesalers must attend on the procurement procedure
- Lack of evidence to persuade the MoH and the MoF to allocate additional funds for procurement of vaccines recommended by NITAG
  - Data on burden of pneumococcal diseases
  - Data on cost-effectiveness of new vaccines

# INTRODUCTION OF HPV VACCINE

- HPV vaccination of 12 years old girls was introduced in 2009
  - HPV (quadrivalent): syringe dose
- Scientific recommendations were provided by National Immunization Committee and Committee for Communicable Diseases
- Gynaecologist Association, Association against HPV, Macedonian Women Lobby supported HPV vaccination
- All preparatory activities including trainings of medical staff, communication and social mobilization campaign were implemented prior to introduction
- Low uptake of vaccine due to concerns about vaccine safety among parents and medical society
- Failure to achieve high coverage of HPV
- High wastage rates of recently introduced HPV vaccine

# HPV and Rubella Coverage, 2009/10 - 2010/11 school years



# SUPPORT NEEDED FROM THE INTERNATIONAL IMMUNIZATION COMMUNITY

- Information about new vaccine pipeline and prices
- Access to affordable vaccines and technologies
- Support to strengthen the National procurement mechanism
- Build local capacity to collect and negotiate evidence to support allocation of additional funds for introduction of new vaccines
- Enhancing communication and social mobilization component of immunization programme and preparedness for crisis communication