HPV IMMUNIZATION IN MACEDONIA
LESSONS LEARNED AND THE WAY FORWARD

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Prepared by Prim.D-r Mimi Karovska
Presented by Prof.D-r Karel Hoppenbrouwers
# OBLIGATORY IMMUNIZATION SCHEDULE

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OVERVIEW OF HPV VACCINATION PROGRAM

- 2008 Campaign for HPV Immunization + Educational Leaflets
- 2009 Introduction of HPV Vaccine
- 2008-2014 Education Seminars for Health Care Providers
- 2009-2016 HPV Vaccine Information and Education for Patients

- 1967 Opportunistic Cervical Cancer Screening
- 2007 Propose for National Cervical Cancer Screening Program
- 2011 Pilot Plan Program for Implementation of Organized Screening
- 2012 Implementation of Organized Screening Program
# HPV IMMUNIZATION SCHEDULE

<table>
<thead>
<tr>
<th>Obligatory</th>
<th>Since 2009</th>
<th>HPV</th>
<th>12 years</th>
<th>+ 6 months</th>
<th>Females</th>
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<tr>
<td>Optional</td>
<td>Since 2008</td>
<td>HPV</td>
<td>15 - 26 years</td>
<td>+ 2 months</td>
<td>= 6 months</td>
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[Image of Cervarix vaccine packaging]

[Image of Gardasil vaccine packaging]
Immunization Average Coverage Data – By Year

- **2009**: 29.9
- **2010**: 36.5
- **2011**: 54.6
- **2012**: 51.8
- **2013**: 40.1
- **2014**: 53.7
- **2015**: 42.2
- **2016**: 53.3

**HPV**

**Other Vaccines**
ADVERSE REACTION

75,2%

< 1%

local

systemic

pain
swelling
erythema
pruritus
bruising
headache
fever
nausea
diarrhea
dizziness
myalgia
abdominal...
insomnia
anxiety
artralgia

insomnia
anxiety
artralgia

1,1
0,8
2,2
1,8
1,1
2,3
3,9
2,6
7,3
14,5
11,8
1,8
4,7
7,5
9,3
75,2

STAKEHOLDERS

- Government-Parliament Members, Committee for Health
- Ministry of Health -National Immunization Committee
- Association of Gynecologist
- Association of School and Adolescent Medicine
- Association against HPV
- Macedonian Women Lobby supported HPV vaccination
- BORKA- Civil Society against Carcinoma
- Adolescent Girls
- Parents
- Schools
- Family Doctors Association
- Medical Nurse Association
- Patronage Polyvalent Service
- Media
SWOT Analysis

Strengths:
- Continuous, organized and planned obligatory immunization.
- Awareness for benefit of immunization
- Affordable health care services for school children and adolescents.
- Intersectoral cooperation with schools and local self-government.

Weakness:
- Distrust in the Health System
- Low Coverage Data
- Vaccine Information and Knowledge

Opportunities:
- Upgrade of uniform software with a data base for immunization.
- Peer education involvement for the significance and benefits of immunization
- Achievement of high vaccine coverage.
- Enhancing communication and social mobilization components of immunization program and preparedness for crisis communication.

Threats:
- Anti Vaccine Sentiment
- Lack of Competent Professionals
- Proper Reporting and Collecting Adverse Reactions
THANK YOU FOR YOUR ATTENTION