



# Experience with influenza vaccine introduction in Mongolia

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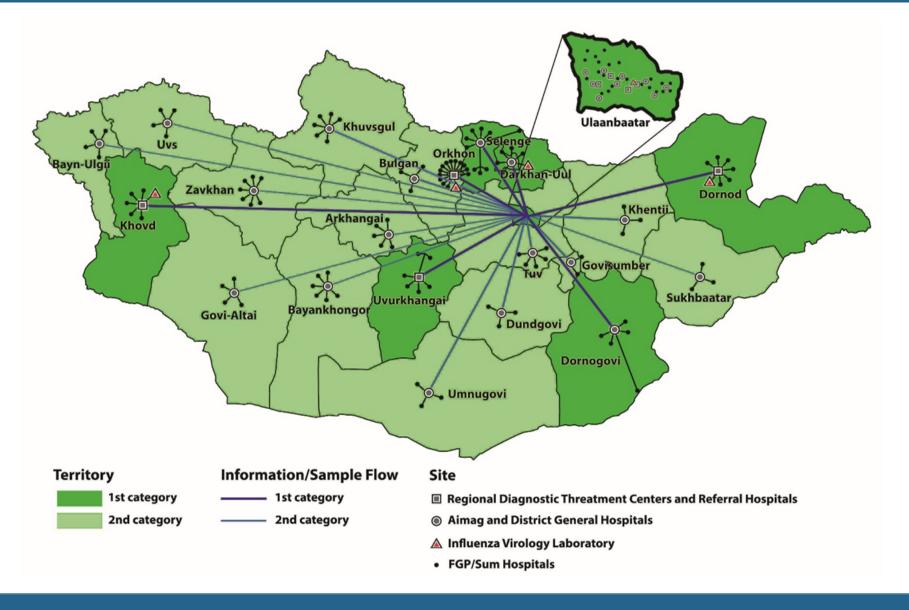
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#### **Country overview**



- Mongolia is landlocked country, neighboring China and Russia with a population of 3.2 million people and half of population reside in capital city.
- Mongolia's total area is 1,555,600 km2.
- The population density in Mongolia is 2 per km2. Km2.
- The median age in Mongolia is 27.4 years.
- Mongolia is classified lower middle-income country by the World Bank.
- Mongolia is administratively divided into 21 provinces and capital city Ulaanbaatar.

#### Influenza Surveillance Network



#### ILI sites-115

- Category 1 61
- Category 2 54

#### **SARI sites-37**

- Category 1 − 17
- Category 2 − 20

#### Influenza vaccination in Mongolia

2001

By the Immunization Law influenza vaccination is issued as a voluntary based with payment;

2014

Ministerial order: (HCWs; Children under 5 years; Elderly; Pregnant women; Individuals with underlying conditions)

2016

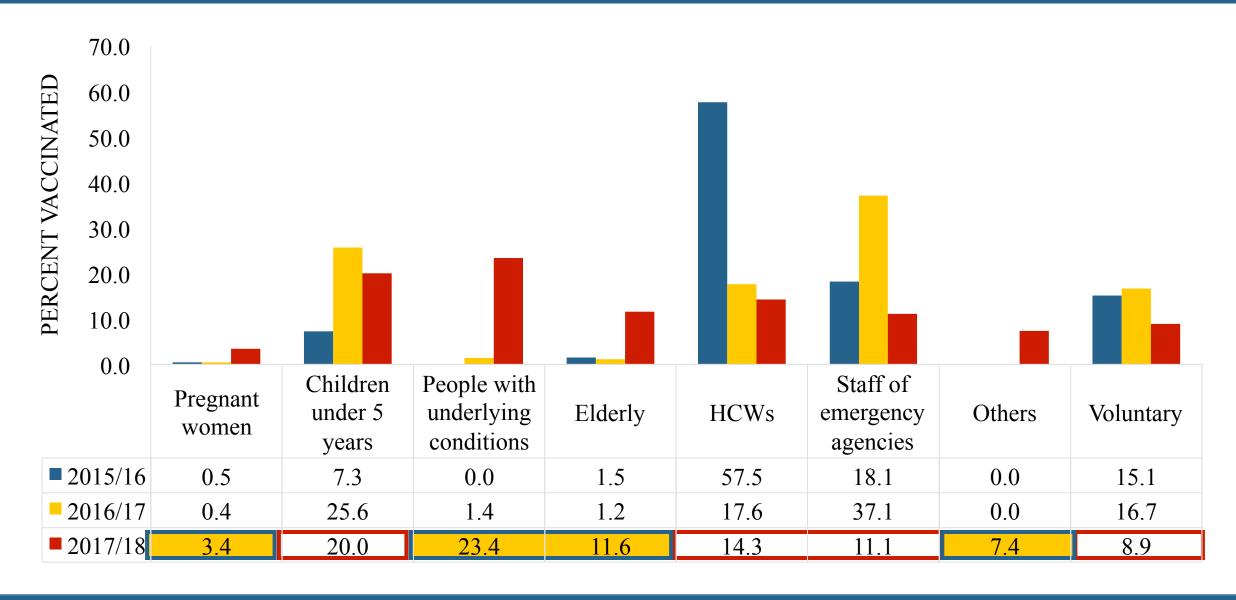
Partnership for Influenza Vaccine Introduction



### Last 3 season's Influenza Vaccination in Mongolia

Years	Name of Manufacturer	Funding sources	Number of doses	Date of vaccine received	Duration of vaccination campaign (in months)	
2015/16	IIV, GCF, Green Cross Corporation (Korea)	Government	45,000	Oct 5, 2015	1	မှုမှုမှုမှု (45,000)
2016/17	IIV, GCF, Green Cross Corporation (Korea)	Government	33,000	Nov 21, 2016	1	ት ተጠተ ተመመመመመ ተመመመመመመመመመመመመመመመመመመመመመመመመመመመ
	RIV, Flublok®, Protein Sciences Corporation, Meriden, CT, USA	PIVI	45,000	Jan 27, 2017	1	78,000
2017/18	IIV, GCF, Green Cross Corporation (Korea)	Government	45,000	Oct 23, 2017	1	<b></b>
	RIV, Flublok®, Protein Sciences Corporation, Meriden, CT, USA	PIVI	50,000	Oct 13, 2017	1.5	
	IIV, Split Virion, Hualan Biological Bacterin Co., Ltd		100,000	Nov 15, 2017	2	
	IIV, Agriflu <sup>TM</sup> , Seqirus Company, Australia		25,000	Nov 15, 2017	2	TOTTO

#### Percent of Vaccinated (by groups, last 3 seasons)



# Activities within PIVI program (2016/17)



#### **AEFI** active surveillance;





KAP - general population;



Non-vaccination survey - HCWs;





Development of animation;







Decision maker meeting;



# Activities within PIVI program (2017/18)



Extended surveillance on Adverse Events and Birth Outcomes among Pregnant Women Received Influenza Vaccine in Mongolia, 2017/18;

- ✓ Assessment the frequency of post vaccination reactions, between Agriflu® and Flublok®, through follow up of vaccinated women 7 days post-vaccination);
- ✓ Follow up of vaccinated pregnant women for post-vaccination reactions;
- ✓ Evaluation the frequency of birth outcomes among pregnant women vaccinated during 2016/17 influenza season in Khuvsgul province (retrospective);





Development of advocacy materials (animation, leaflets and guidance etc.) on benefits of influenza vaccination for target groups;







**Trainings for HCWs;** 











#### Mongolia's achievements on influenza vaccination



- ✓ 2009 Experience with pandemic vaccine;
- ✓ Gradually annual increase of population interested in vaccination;
- ✓ Ministerial order including a sustainability plan on influenza surveillance;
- ✓ Sustainability plan on influenza vaccination recommended by PIVI;
- ✓ Government resolution fornstrengthening and systaining the sinfluenza pandemienzpreparedness prandreemerging and reference emerging endisease surveillancee within withen "Nationalor Program aron on Prevention" of Communicable Diseases in 2017-2020";
- ✓ National Plan on Public Health Emergencies and Pandemic Preparedness;
- ✓ National Immunization Plan for next 5 years including influenza vaccination issues;

### Challenges



Lack of knowledge on influenza vaccine benefits among general population;



Lack of Government Funding Source to increase vaccine supplement;



Social misleading advertising on vaccine including influenza vaccine;



Continued education for HCWs for influenza vaccination;

## Acknowledgement



Ministry of Health, Mongolia for leadership and decision making;



Task Force for Global Health, Center for Vaccine Equity, PIVI for vaccine donation and project implementation;



US CDC Influenza Division for technical assistance in conducting the surveys;



NCCD staff and HCWs in health facilities;

# Thank you very much!

