



Results of season 2017-2018 Moscow, Russia

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Site presentation

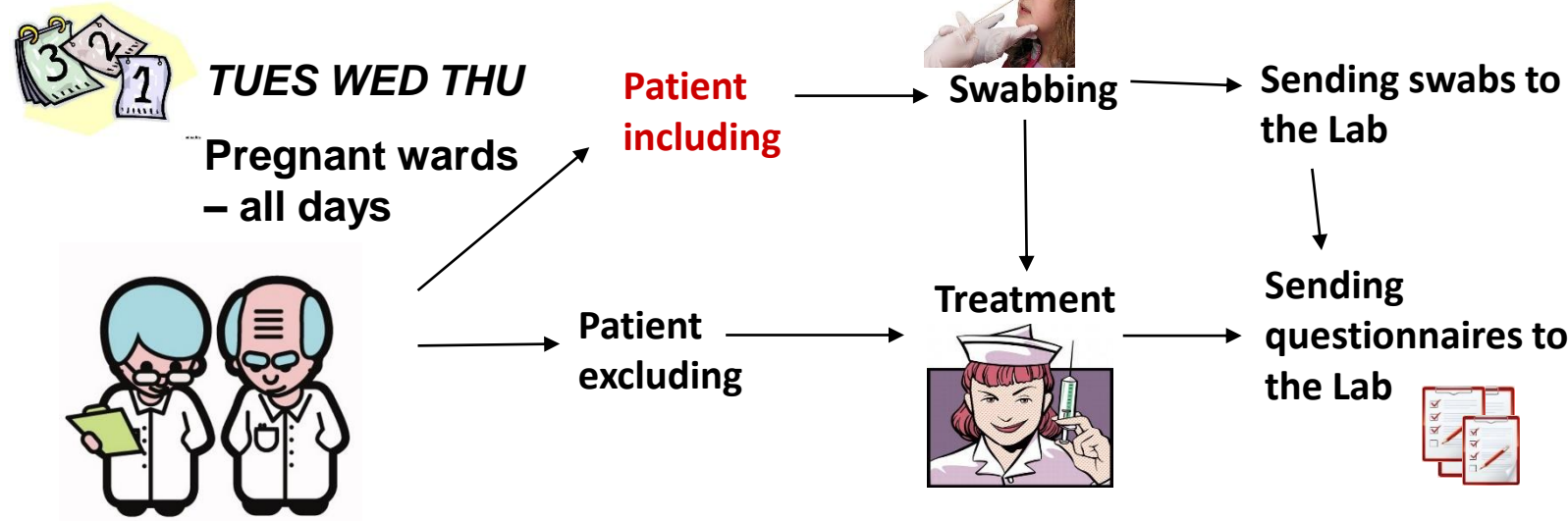
- Hospital #1 for Infectious Diseases is an emergency reference clinic in the city.
- Speciality – respiratory, intestinal, neuro-, hemorrhagic infections, hepatitis.
- It serves Moscow citizens and guests from 0 to 90 y.o.
- Moscow's population is about 12,3 million.
- Influenza seasonality are usually registered from December to May.

Capacity of the hospital

Total number of beds 706	Adults 485	Children 221	Obstetric 69	ICU 12
Beds Included in GISHN				
314 (6 wards for ARVI)	120	53 (0-3yo) 60 (3-14yo)	69	12

Methods

Hospital activity.

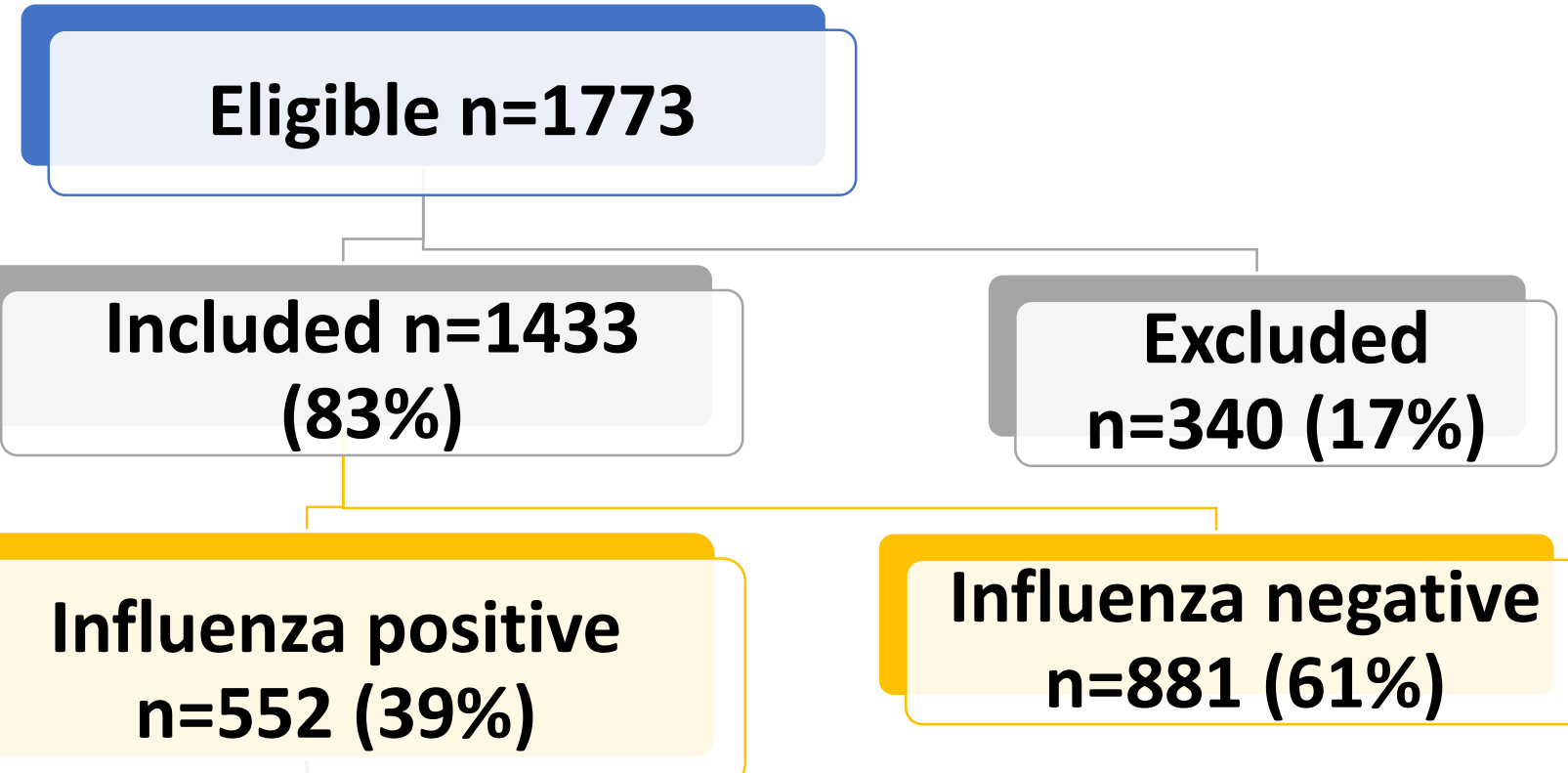


Laboratory activity.

- Influenza Etiology and Epidemiology laboratory**
- PCR diagnostic
 - Virus isolation
 - Sera diagnostic
 - Completion GISHN excel file

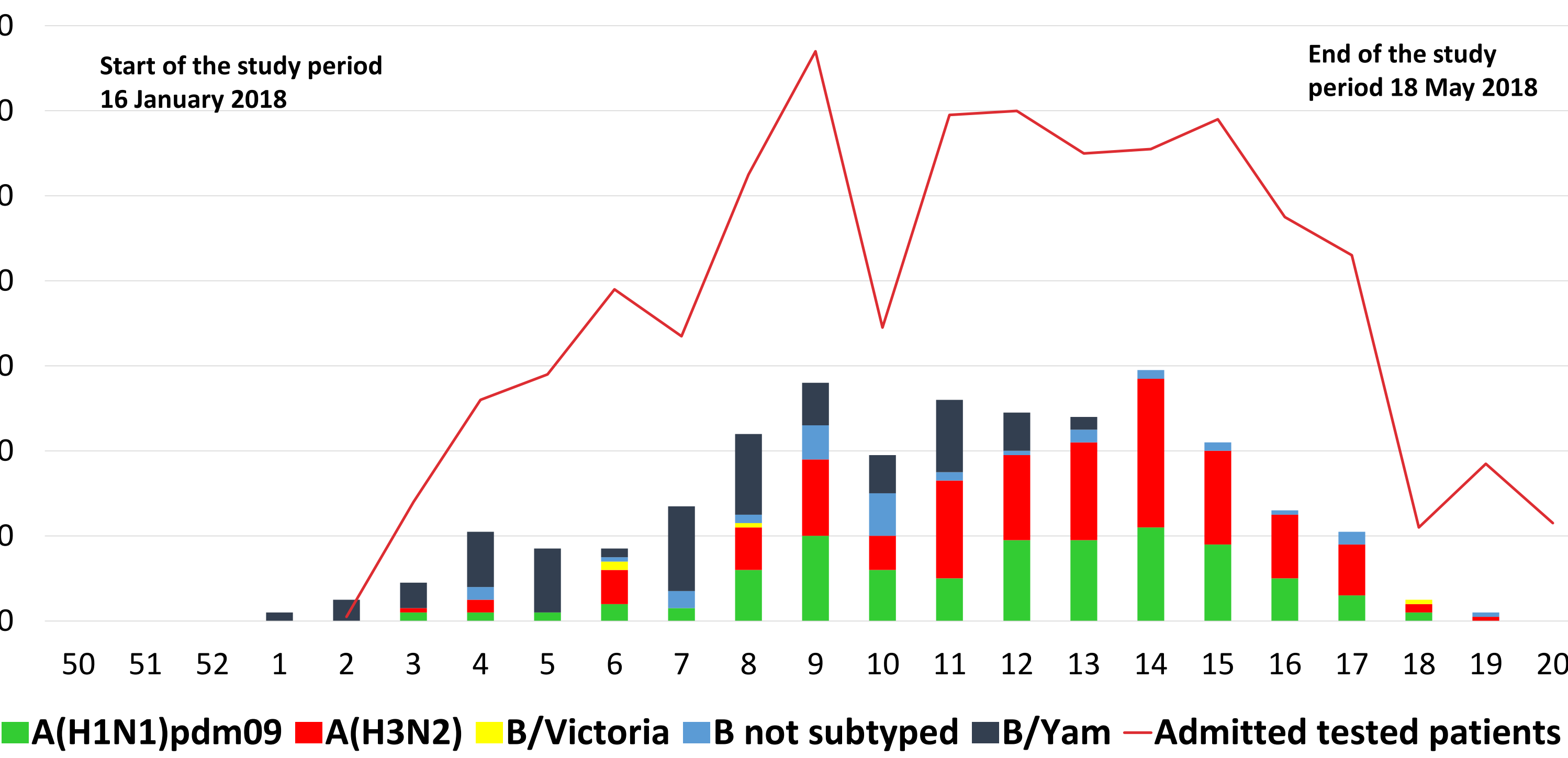
Russian commercial diagnostic PCR kits were used: «Ribosorb» and «Riboprep» (AmpliSens, Russia), «DNA-prep» (DNA-technology, Russia); «Reverta-L» (AmpliSens, Russia), «Reagent kit for reverse transcription» (DNA-technology, Russia); AmpliSens Influenza virus A/B, AmpliSens Influenza virus A-type (H1N1 and H3N2), AmpliSens Influenza virus A/H1-swine-FL (H1N1pdm09), Evolutionary lines of influenza B virus (DNA-technology, Moscow), in-house reagents for type B-lineages.

Results

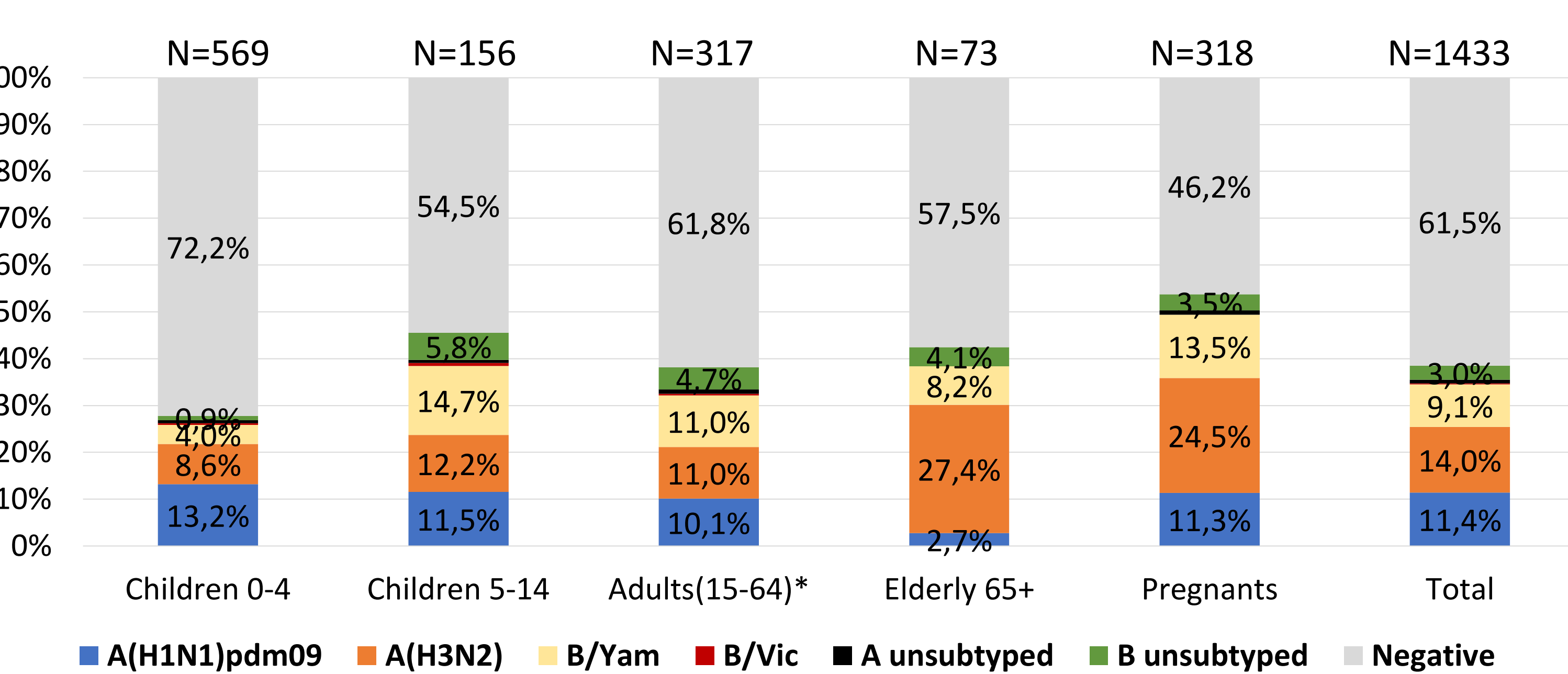


Influenza type	n	%
A(H1N1)pdm09	163	29,5%
A(H3N2)	201	36,4%
B/Yamagata	130	23,5%
B/Victoria	4	0,7%
B not subtype	43	7,8%
A not subtype	11	2,0%

Weekly admissions and influenza results GISHN 2017-2018

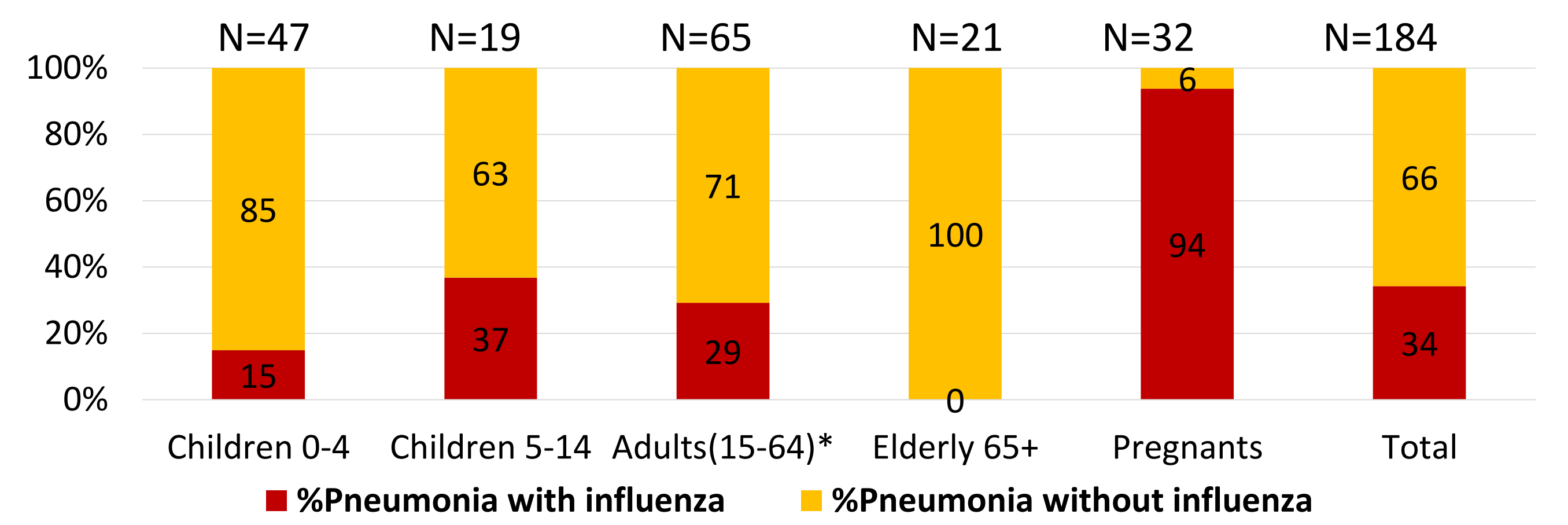


Influenza distribution in patients groups

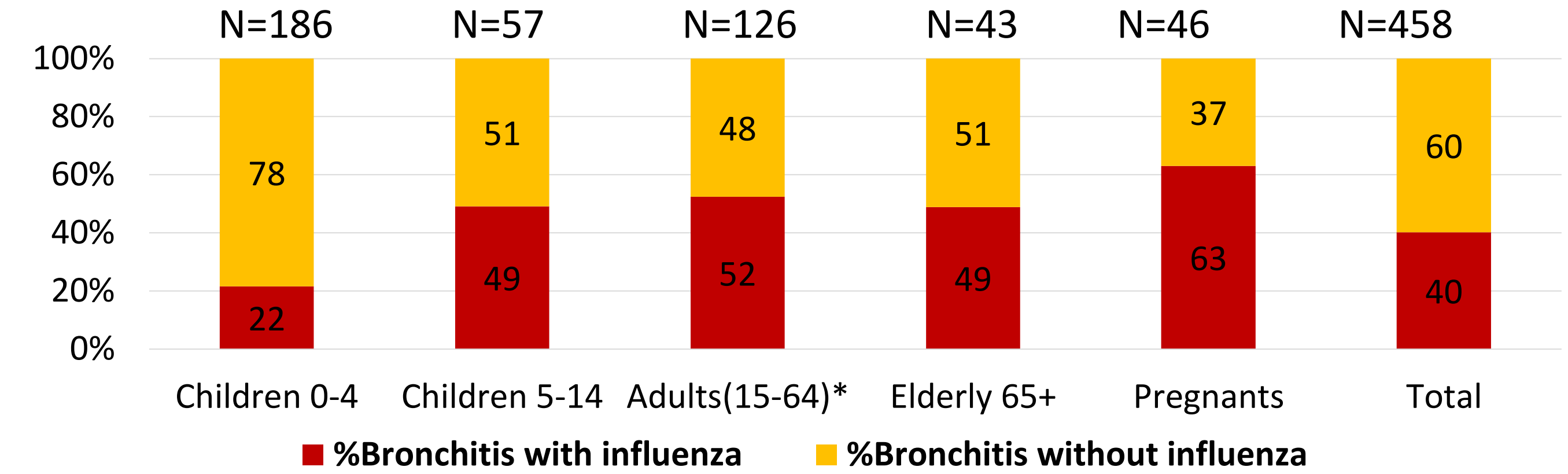


*except pregnant

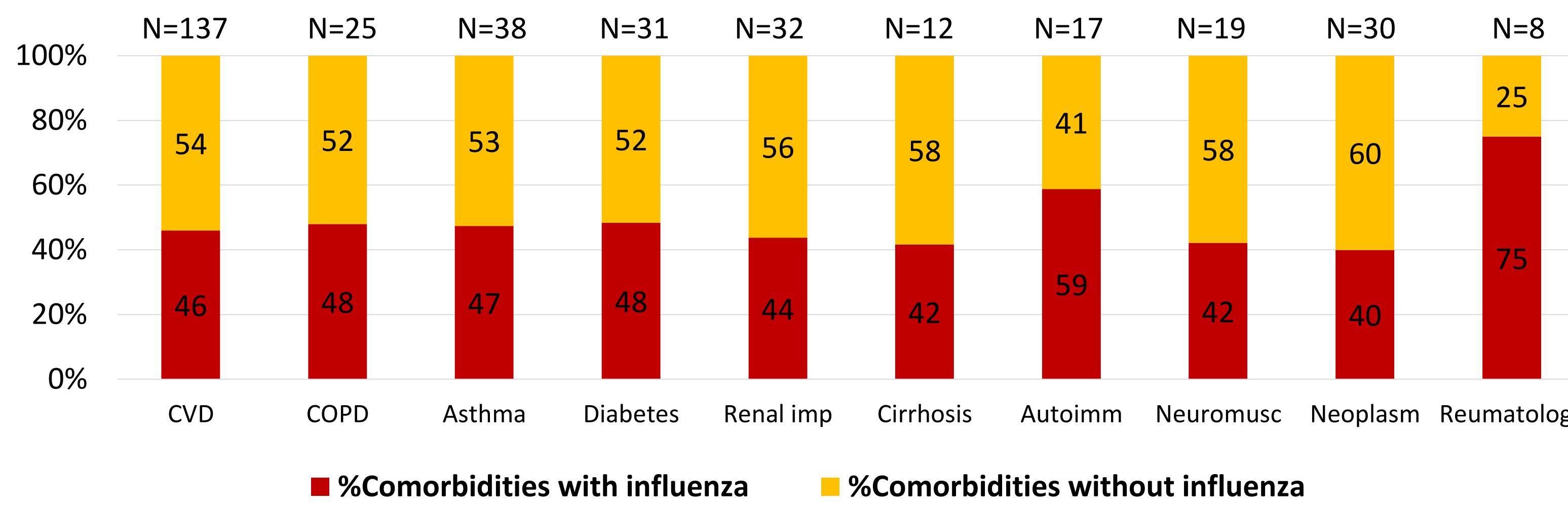
Pneumonia and Influenza



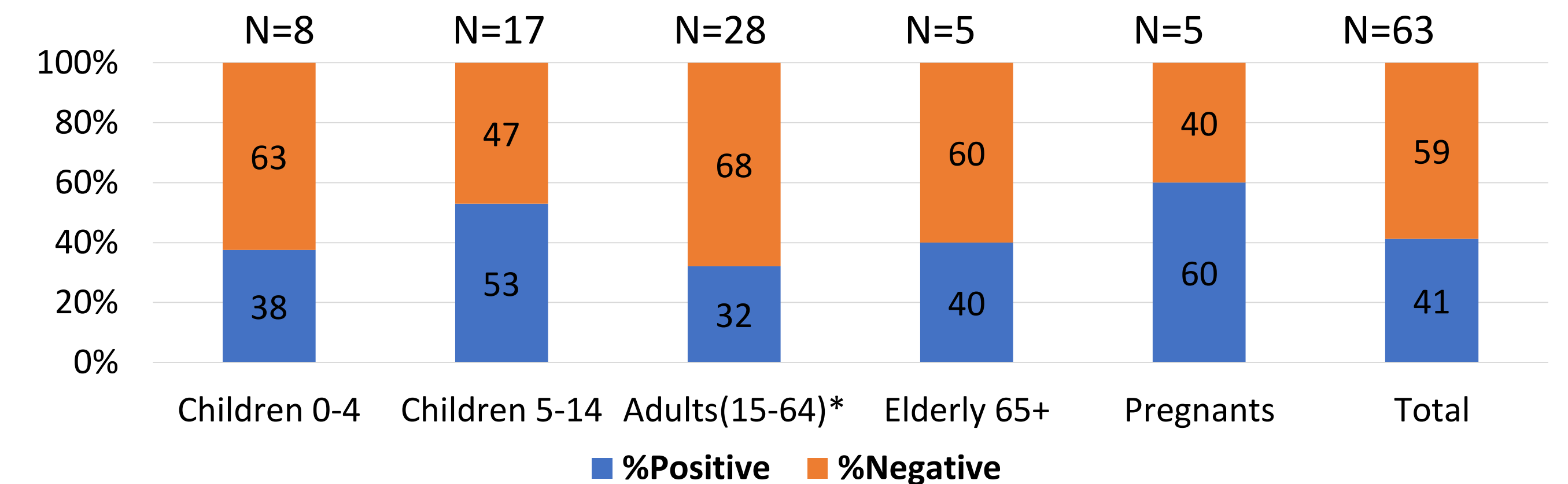
Bronchitis and Influenza



Comorbidities and Influenza



Vaccinated patients



Key aspects & challenges

2017-2018	2016-2017
Late start of the influenza season on 3rd wks of January 2018	Sharp start of influenza season on 49-50 wks of December 2016
Short duration of the influenza season – 18 weeks	Long duration – 23 weeks
Dominant influenza virus – A(H3N2) - 36% A(H1N1)pdm09 - 30% B/Yamagata-lineage - 24% Low activity of B/Victoria-like strains (vaccine)	Dominant influenza virus – A(H3N2) - 56% B/Victoria-lineage – 40%
4 cases of influenza B/Victoria-lineage	No one case of influenza A(H1N1)pdm09 and B/Yamagata-lineage
Bronchitis and Pneumonia caused by influenza are commonly registered in pregnant	Bronchitis and Pneumonia caused by influenza are commonly registered in adult patients (including pregnant)
63 vaccinated patients	67 vaccinated patients
Increasing of female admissions: 318 pregnant/ 345 non-pregnant women	Prevalence of pregnant women among female admissions: 805 pregnant/ 74 non-pregnant
2 elderly deaths (1 with flu) / 6 cases of ICU (1 with flu)	No deaths / 1 case of ICU

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