

Supplementary Table 3. Median number of specimens tested and percent positive for influenza, by age group, study design, and population among all data sources

	Number of data sources (n=112)	Median total number specimens tested	Interquartile Range (IQR)		Median percent positive	IQR		p-value
All adults	112	361	183	1137	11%	7%	19%	
Age group								
Adults <65 years*	50	727	319	1934	15%	9%	21%	0.28
Adults ≥65 years	48	219	90	667	13%	8%	17%	
Data source								
GRIPP Surveillance datasets	37	1308	565	3222	15%	10%	20%	0.011
Published papers	75	242	129	470	10%	6%	17%	
Timeframe								
Pre-2009 data only	45	187	119	296	8%	5%	16%	0.016
Post-2009 data only	61	569	328	1890	14%	8%	20%	
Pre- & post-2009 data	6	2294	1188	7487	10%	10%	15%	
Diagnostic Test								
RT-PCR only	40	452	204	1161	14%	8%	20%	0.58
Immunofluorescence only	12	556	397	1053	9%	6%	15%	
Serological assay only	13	250	135	338	11%	6%	16%	
Multiple tests, including RT-PCR	38	455	189	1755	10%	7%	17%	
Multiple tests, excluding RT-PCR	6	121	80	174	14%	7%	21%	
Other [†]	3	340	321	412	9%	9%	16%	
Case definition								
Acute respiratory infection (ARI)	7	266	164	312	9%	6%	13%	0.0014
Lower respiratory infection (LRI)	8	850	516	3697	14%	11%	15%	
Pneumonia	32	189	127	302	7%	6%	11%	
Severe acute respiratory infection (SARI)	35	1308	444	3213	17%	11%	20%	
Other [‡]	30	412	190	579	10%	5%	18%	
Special population[¶]								
Yes	20	194	102	394	9%	4%	19%	0.43
No	92	462	206	1384	11%	7%	19%	
World Health Organization region								
Africa	9	1259	411	1766	7%	6%	11%	0.071
Americas	18	306	164	1947	9%	6%	17%	

Eastern Mediterranean	8	729	220	1951	20%	17%	21%	
Europe	23	187	118	279	8%	3%	14%	
Southeast Asia	14	714	407	1770	13%	11%	16%	
Western Pacific	40	470	244	1015	13%	8%	19%	
World Bank income level								
Low	10	1006	530	1755	12%	7%	14%	0.035
Lower-middle	26	825	385	1758	15%	10%	19%	
Upper-middle	31	483	226	1342	14%	7%	20%	
High	45	240	124	328	9%	4%	16%	

*Gaps in age-specific estimates due to lack of outcome data stratified by age group.

† Includes rapid immunochromatographic assay (n=2), virus culture (n=1).

‡ Includes acute exacerbation of chronic obstructive pulmonary disease (COPD) (n=14), respiratory hospitalization (acute or non-acute) (n=10), acute exacerbation of asthma (n=3), acute febrile illness (n=2), intubation among intensive care unit (ICU) patients (n=1), acute respiratory distress syndrome (ARDS) (n=1), ICD codes consistent with influenza (n=1), and acute coronary syndrome with recent influenza-like illness (n=1).

¶ Includes studies of populations with COPD (n=10), hospitalised in the ICU only (n=3), immunocompromising conditions (n=1), asthma (n=1), heart disease (n=1), or in the military (n=1)