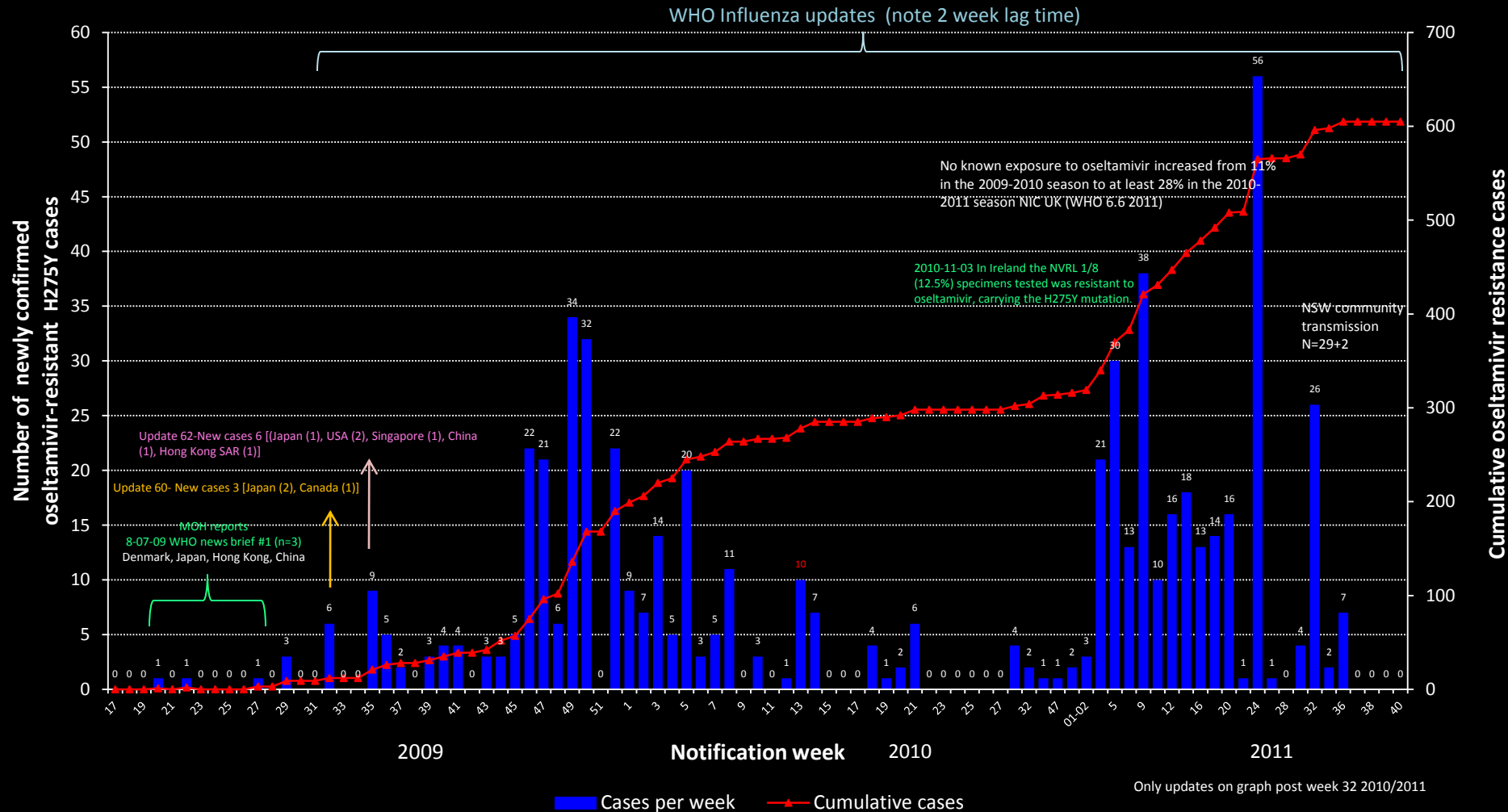


Pandemic (H1N1) 2009 Virus Antiviral Resistance

Updated 23 Nov 2013 ver. 1.1

Pandemic (H1N1) 2009 Virus Antiviral Resistance

Pandemic (H1N1) 2009 Virus Worldwide Oseltamivir Resistance 2009-2011 (n=605)



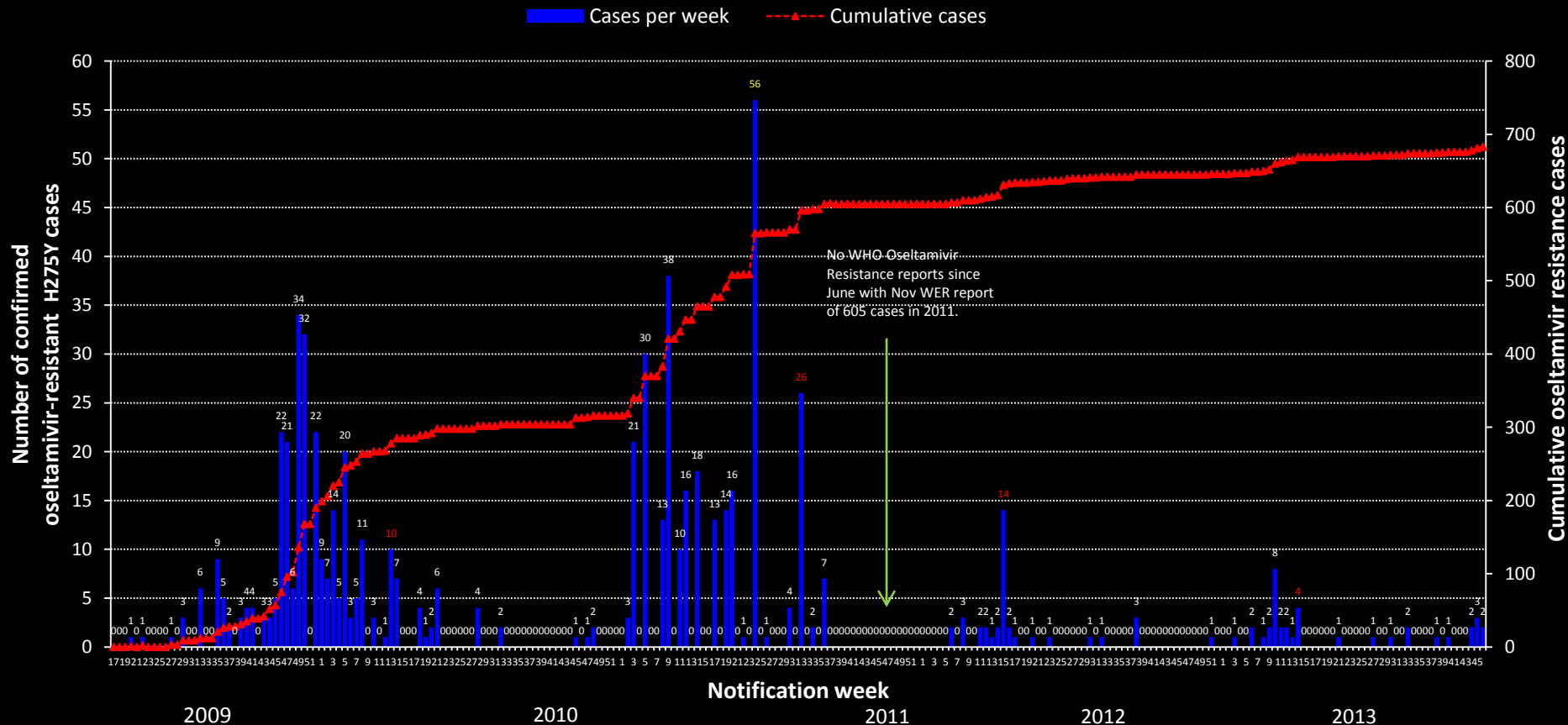
11/23/2013

Note- In week 13 (2010) most of the 10 new cases are retrospective from the 4 quarter of 2009 (Update 95 WHO) Cases reported for the period between week 35, 2010 and week 16, 2011 in Infectious Agents Surveillance Report, Japan. This figure includes 8 samples that are mixed populations H275Y -H275H/Y- 2012 most recent US case during Week 8 (February 19-25, 2012), (no reports since week 38 by WHO) In Australia the frequency of H275Y variants was 4 in 50 viruses in June (8%), 20 in 85 viruses in July (24%), and 4 in 45 viruses in August (9%).

Pandemic (H1N1) 2009 Virus

Antiviral Resistance (Update from Nov 2011-2013)

Week of Notification of Influenza A pdm (H1N1) 09 Virus
Worldwide Osetamivir Resistance 2009-2013 (n=683)



Updated Hong Kong (7); CDC (4), ECDC (3) ; Australia (4) (Batch report) Jan to Nov 2013; Brazil (4) from 2012~;
(Portugal (n=3) one in 2009/10, 2 cases no IC50 results 2010-11 pending all 3!)

Note: the 56 cases were a retrospective batch report by WHO!