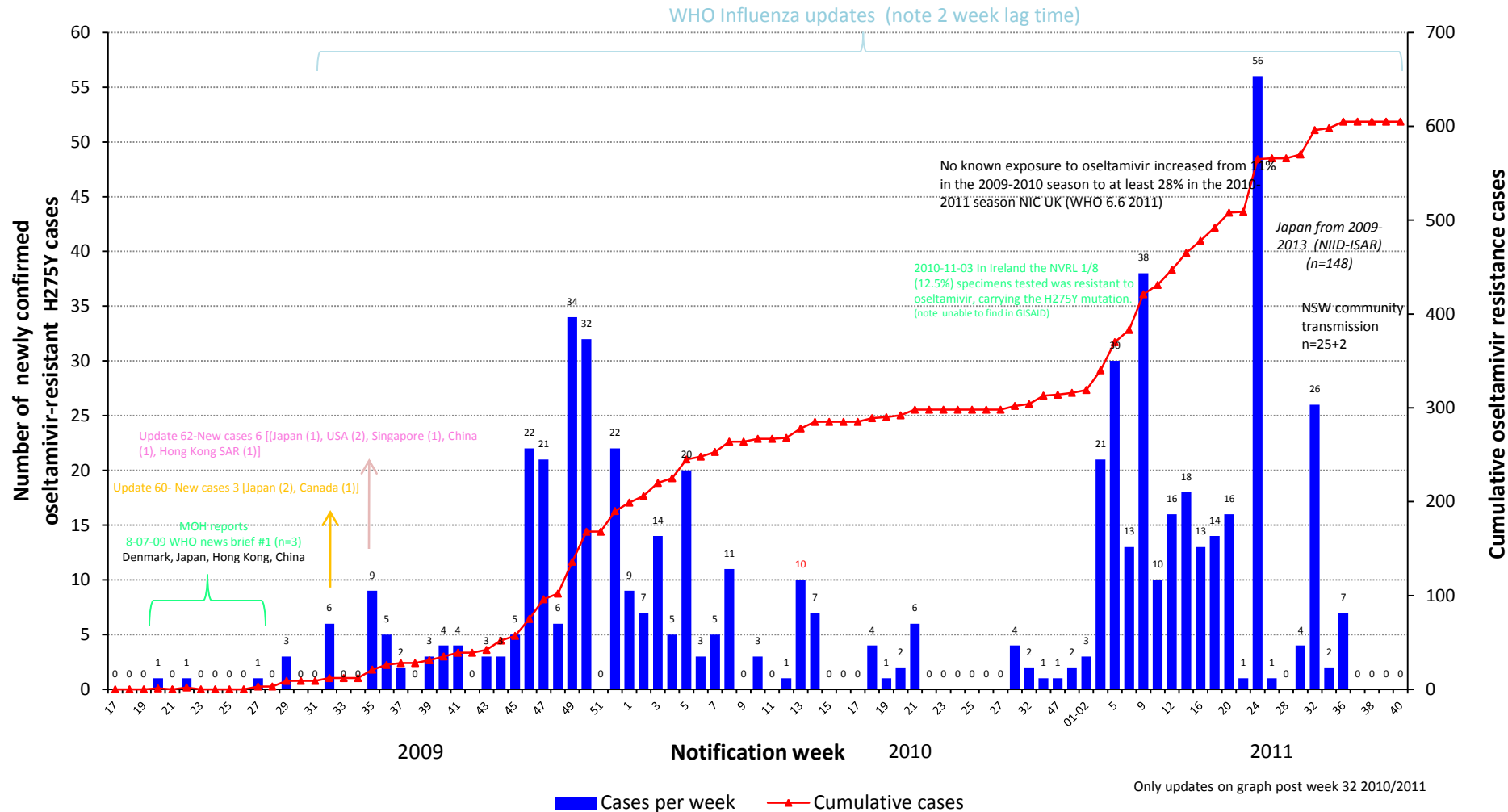


Pandemic (H1N1) 2009 Virus Antiviral Resistance

Updated 28 Nov 2013 ver. 1.3

Pandemic (H1N1) 2009 Virus Antiviral Resistance

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



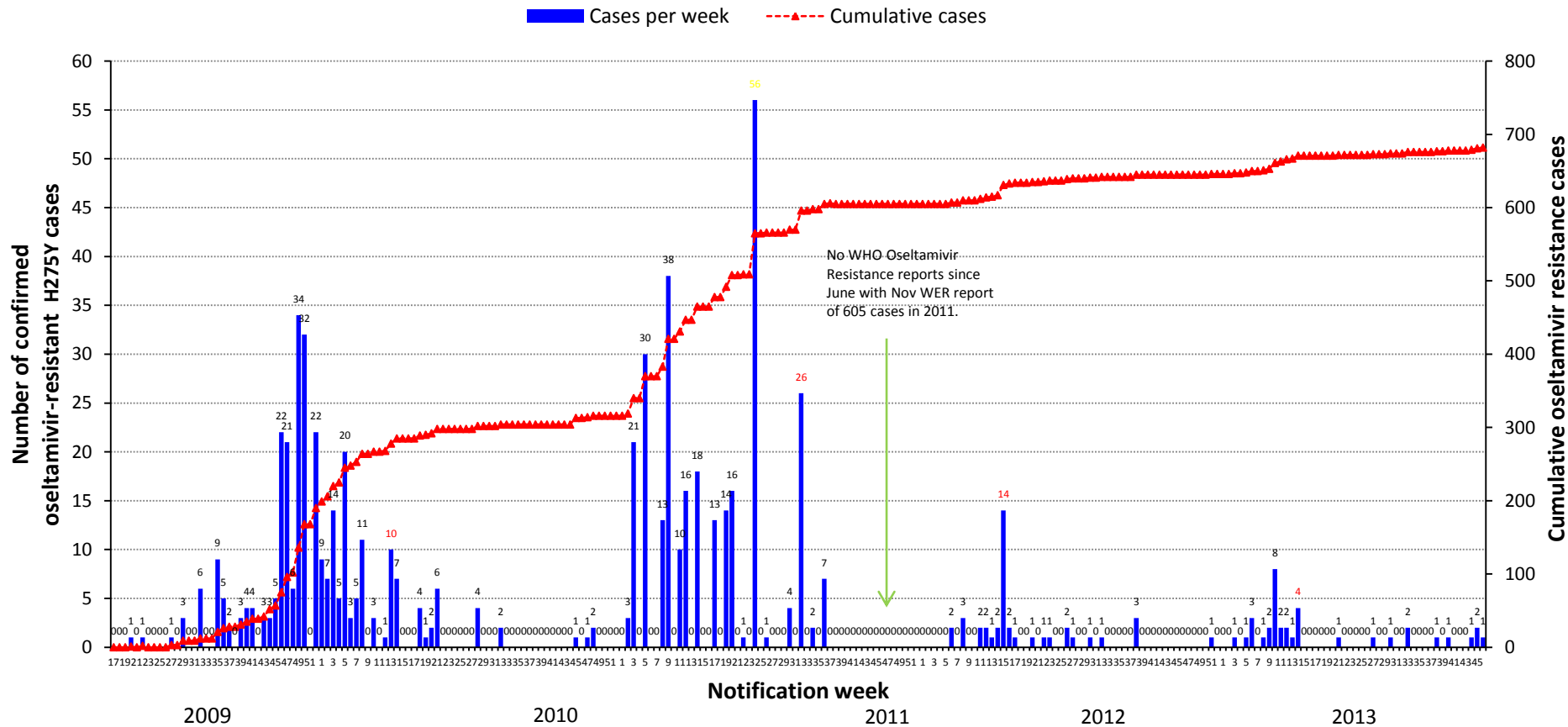
Note- In week 13 (2010) most of the 10 new cases are retrospective from the 4 quarter of 2009 (Update 95 WHO)

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)

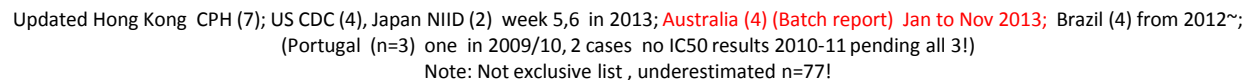
Week of Notification of Influenza A pdm (H1N1) 09 Virus Worldwide Oseltamivir Resistance 2009-2013 (n=682)



Updated Hong Kong CPH (7); US CDC (4), Japan NIID (2) week 5,6 in 2013; 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!

**Week of Notification of Influenza A pdm (H1N1) 09 Virus
Worldwide Oseltamivir Resistance Nov 2011-2013 (n=682)**



All references available
on request!

*If any variances are
noted please post with
reference!*

Year/Week of Notification	Countries (cases) n=77
2012	N=41
Week 6	Mexico (2)
Week 8	CDC US (2), Hong Kong (1)
Week 11	CDC US (1), Hong Kong (1)
Week 12	CDC US (2)
Week 13	CDC US (1)
Week 14	CDC US (2)
Week 15	Mexico (8) [pending +2]; CDC US (6)
Week 16	CDC US (2) [11 of 16 are from Texas Jan-Apr.]
Week 17	CDC US (1)
Week 20	Hong Kong (1)
Week 22	Brazil (1)
Week 23	Hong Kong (1)
Week 26	Brazil (2)
Week 27	Brazil 1
Week 30	Hong Kong (1)
Week 32	Hong Kong (1)
Week 38	Australia (3)
Week 51	Netherlands (1)
2013	N=36
Week 2	CDC US (1)
Week 5	Japan (1)
Week 6	Hong Kong (1); CDC US (1); Japan (1) [total cases since 2009 n=150]
Week 8	Hong Kong (1)
Week 9	Netherland (1); Hong Kong (1)
Week 10	Denmark (1); Germany (2); England (2); Russia (1); Switerland (1); Hong Kong (1)
Week 11	Hong Kong (1); England (1)
Week 12	Hong Kong (2)
Week 13	Hong Kong (1)
Week 14	Australia batch 4 cases (I'll change weeks later)
Week 21	Hong Kong (1)
Week 27	Hong Kong (1)
Week 30	Hong Kong (1)
Week 33	Hong Kong (2)
Week 38	Hong Kong (1)
Week 40	Hong Kong (1) [n=37 from 2009]
Week 44	CDC US (1)
Week 45	CDC US (2)
Week 46	CDC US (1)