**Figure 1 – source data 2:** Ferret influenza transmission studies via respiratory droplets using human isolates. Transmission was determined using seroconversion (SC) and/or viral isolation (VI).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subtype** | **Isolate** | **Successful transmissions – SC/VI (VI only)** | **Ferrets exposed** | **Reference** |
| **H1N1** | A/Kawasaki/UTK-4/2009 | **1** | **2** | (Itoh et al. 2009) |
|  | A/Brisbane/59/2007 | **3** | **3** | (Maines et al. 2009) |
|  | A/Brisbane/59/2007 | **1** | **1** | (The SJCEIRS Working Group 2013) |
|  | A/Netherlands/26/2007 | **4 (3)** | **4** | (Munster et al. 2009) |
|  | A/South Dakota/6/2007 | **3** | **3** | (Pearce et al. 2011) |
|  | A/Solomon Islands/3/2006 | **3** | **3** | (Van Hoeven et al. 2009) |
|  | A/Texas/36/1991 | **3** | **3** | (Tumpey et al. 2007) |
| **H3N2** | A/Texas/50/2012 | **3** | **3** | (Belser et al. 2013) |
|  | A/Perth/16/2009 | **3 (2)** | **3** | (Houser et al. 2013) |
|  | A/Netherlands/213/2003 | **4** | **4** | (Munster et al. 2009) |
|  | A/Wyoming/3/2003**RG** | **2** | **2** | (Langlois et al. 2013) |
|  | A/Wyoming/3/2003 **RG** | **2** | **2** | (Jackson et al. 2009) |
|  | A/Panama/2007/1999 | **2** | **2** | (Gustin et al. 2011) |
|  | A/Panama/2007/1999 | **3** | **3** | (Maines et al. 2006) |
|  | A/Memphis/14/1998 | **2** | **2** | (Wan et al. 2008) |
|  | A/Wuhan/359/1995**RG** | **2** | **3** | (Yen et al. 2011) |
|  | A/Victoria/3/1975 | **3** | **3** | (Maines et al. 2006) |
|  | A/Victoria/3/1975 | **2** | **2** | (Itoh et al. 2009) |
| **pH1N1** | A/Shizuoka-c/99/2013 | **1** | **3** | (Takashita et al. 2015) |
|  | A/California/04/2009 | **3** | **3** | (Itoh et al. 2009) |
|  | A/California/04/2009 | **2** | **3** | (Maines et al. 2009) |
|  | A/California/04/2009**RG** | **1** | **1** | (Seibert et al. 2010) |
|  | A/California/04/2009**RG** | **2** | **3** | (Jayaraman et al. 2011) |
|  | A/California/04/2009 | **3** | **3** | (Yen et al. 2011) |
|  | A/California/04/2009**RG** | **3** | **3** | (Imai et al. 2012) |
|  | A/California/04/2009**RG** | **2** | **2** | (Martínez-Romero et al. 2013) |
|  | A/California/04/2009 | **3** | **3** | (Watanabe et al. 2013) |
|  | A/California/04/2009**RG** | **2** | **2** | (Hale et al. 2010) |
|  | A/California/04/2009 | **2** | **2** | (Koster et al. 2012) |
|  | A/California/04/2009**RG** | **2** | **2** | (Wong et al. 2012) |
|  | A/California/04/2009**RG** | **2** | **2** | (Karlsson et al. 2015) |
|  | A/California/07/2009 | **3** | **3** | (Zhu et al. 2013) |
|  | A/California/07/2009**RG** | **4** | **4** | (Lakdawala et al. 2011) |
|  | A/California/07/2009 | **3** | **3** | (Yuan et al. 2015) |
|  | A/Denmark/524/2009 | **2 (1)** | **2** | (Duan et al. 2010) |
|  | A/England/195/2009**RG** | **2** | **3** | (van Doremalen et al. 2011) |
|  | A/England/195/2009**RG** | **3** | **3** | (van Doremalen et al. 2011) |
|  | A/HH/01/2009**RG** | **1** | **1** | (Seibert et al. 2010) |
|  | A/HK/415742/2009 | **2** | **3** | (Yen et al. 2011) |
|  | A/Mexico/4482/2009 | **2** | **3** | (Maines et al. 2009) |
|  | A/Netherlands/602/2009 | **4** | **4** | (Munster et al. 2009) |
|  | A/Netherlands/602/2009**RG** | **4** | **4** | (Herfst et al. 2010) |
|  | A/Netherlands/602/2009**RG** | **4** | **4** | (Chutinimitkul et al. 2010) |
|  | A/Netherlands/602/2009**RG** | **4** | **4** | (van der Vries et al. 2011) |
|  | A/Netherlands/1132/2009 | **3** | **3** | (Pearce et al. 2011) |
|  | A/New York/1682/2009**RG** | **2** | **3** | (Zhou et al. 2013) |
|  | A/Osaka/164/2009 | **3** | **3** | (Kiso et al. 2010) |
|  | A/Quebec/144147/2009**RG** | **3 (1)** | **4** | (Pizzorno et al. 2012) |
|  | A/Quebec/147023/2009 | **4** | **4** | (Hamelin et al. 2011) |
|  | A/Sichuan/1/2009 | **3** | **3** | (Zhang et al. 2012) |
|  | A/Texas/15/2009 | **2** | **3** | (Maines et al. 2009) |
|  | A/Vietnam/HCM9727/2009 | **3** | **3** | (Kiso et al. 2010) |
| **H2N2** | A/England/10/1967 | **3** | **3** | (Pappas et al. 2015)  |
|  | A/Albany/6/1958 | **3** | **3** | (Pappas et al. 2010) |
|  | A/El Salvador/2/1957 | **1** | **3** | (Pappas et al. 2010)  |
| **H7N9** | A/Anhui/1/2013 | **2** | **6** | (Belser et al. 2013) |
|  | A/Anhui/1/2013 | **3** | **4** | (Richard et al. 2013) |
|  | A/Anhui/1/2013 | **1** | **3** | (Watanabe et al. 2013) |
|  | A/Anhui/1/2013 | **3** | **3** | (Zhang et al. 2013) |
|  | A/Anhui/1/2013 | **3** | **3** | (Zhang et al. 2013) |
|  | A/Anhui/1/2013 | **1** | **3** | (Xu et al. 2014) |
|  | A/Anhui/1/2013 | **2 (1)** | **4** | (Zaraket et al. 2015) |
|  | A/Shanghai/1/2013 | **1** | **3** | (Belser et al. 2013) |
|  | A/Shanghai/1/2013 | **1** | **3** | (Zhang et al. 2013) |
|  | A/Shanghai/1/2013 | **4** | **4** | (Yen et al. 2014) |
|  | A/Shanghai/2/2013 | **1** | **3** | (Zhang et al. 2013) |
|  | A/Shanghai/2/2013 | **2 (1)** | **3** | (Zhu et al. 2013) |
| **H5N1** | A/Indonesia/5/2005 | **0** | **4** | (Munster et al. 2009) |
|  | A/Thailand/16/2004**RG** | **0** | **3** | (Jackson et al. 2009) |
|  | A/Vietnam/1194/2004 | **0** | **3** | (Xu et al. 2013) |
|  | A/Vietnam/1203/2004**RG** | **0** | **3** | (Maines et al. 2011) |
|  | A/Vietnam/1203/2004 | **0** | **3** | (Xu et al. 2014) |
|  | A/Hong Kong/213/2003 | **0** | **3** | (Maines et al. 2006) |
|  | A/Hong Kong/486/1997 | **2 (0)** | **3** | (Maines et al. 2006) |
|  | A/Hong Kong/486/1997**RG** | **2 (0)** | **3** | (Maines et al. 2011) |
| **H7N2** | A/NY/107/2003 | **0** | **3** | (Belser et al. 2008) |
| **H7N7** | A/NL/219/2003 | **0** | **3** | (Belser et al. 2008) |
|  | A/NL/230/2003 | **0** | **3** | (Belser et al. 2008) |
| **H9N2** | A/Hong Kong/33982/2009 | **0** | **2** | (The SJCEIRS Working Group 2013) |
|  | A/Hong Kong/1073/1999 | **0** | **2** | (The SJCEIRS Working Group 2013) |
| **H7N3** | A/Canada/504/2004 | **0** | **3** | (Belser et al. 2008) |

**RG**Isolate rescued using reverse genetics.

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