Vaccine-induced HAI kinetics to influenza strains <2 vaccines in last 5 seasons 2 or more vaccines in last 5 seasons A(H1N1) vaccinating A(H3N2) vaccinating Model-predicted HAI titre fold-rise Pre-vaccination HAI titre **-** <10 A(H1N1) cell-grown **-** >160 A(H3N2) cell-grown Days post-vaccination