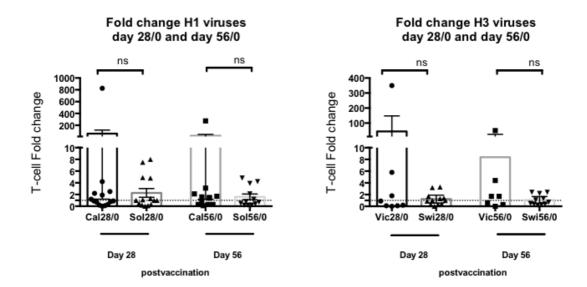
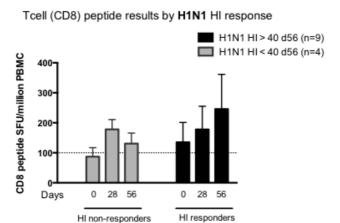


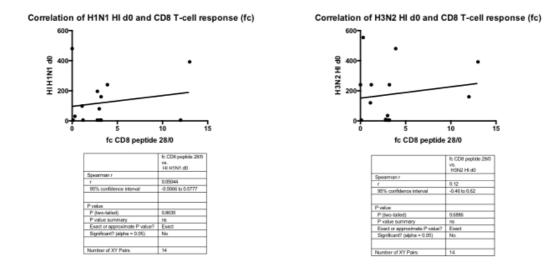
Supplementary Figure 1: HI fold change for the homologous and heterologous influenza
H1N1 and H3N2 strains. Fold changes were calculated from pre-vaccination titers (day 0).



Supplementary Figure 2: T-cell fold-change day 28 and 56 post vaccination to homologous and heterologous H1N1 and H3N2 strains. The Wilcoxon matched-pair signed rank test was used to examine for statistical differences between homologous vaccine and heterologous strains. Fold changes were calculated from pre-vaccination titers (day 0).



Supplementary Figure 3: CD8 peptide response after LAIV in children with and without an HI antibody response. Both responding children (HI<40) and non-responders (HI<40) after LAIV showed an increase in CD8 T-cell numbers.



Supplementary Figure 4: Correlation between HI day 0 (pre-vaccination) and foldchange of the CD8 peptide response after one dose, day 28. The non-parametric Spearman correlation test was used, with r indicated and with p<0.05 considered significant.