

Figure S1. Multiple qPCR standard curves for FluA, FluB, RSV, and HRV.

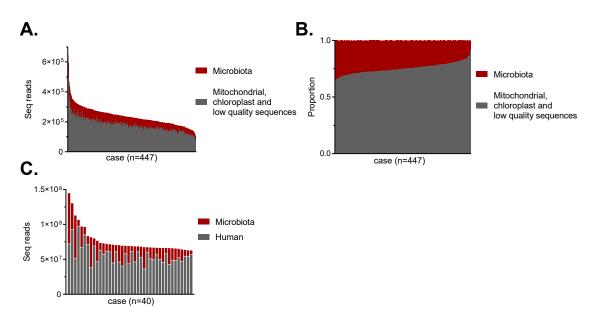


Figure S2. Reads count and proportions of microbiota in sequencing profiles. (A) Microbial reads count in 16S rRNA gene sequencing data. (B) The proportions of microbiota in 16S rRNA gene sequencing data. (C) Microbial and human reads count in metagenomic sequencing data.

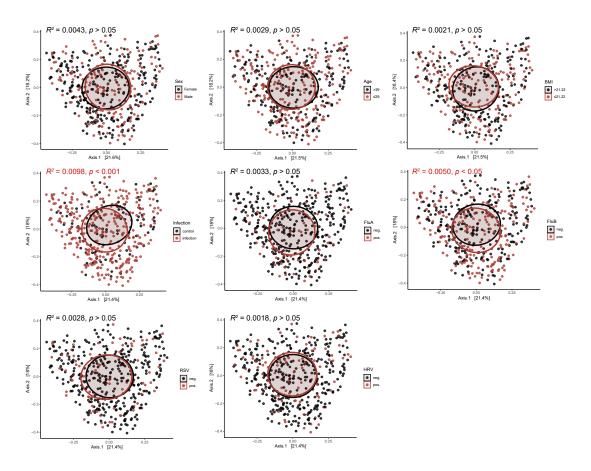
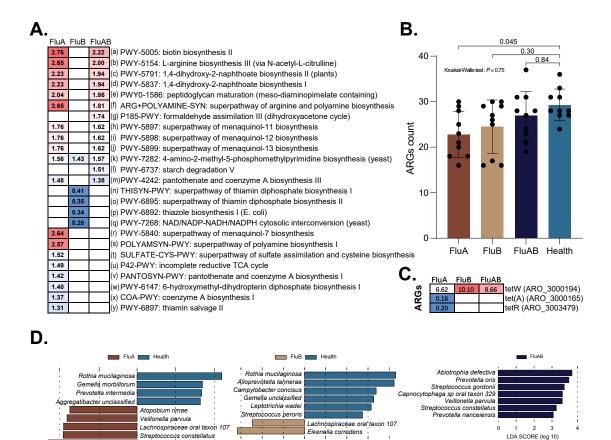
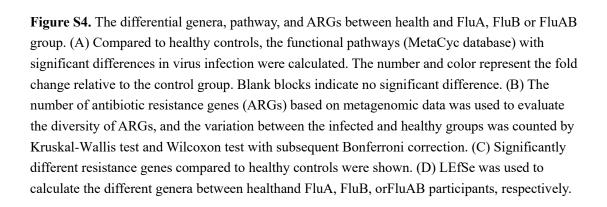


Figure S3. The variation of microbial composition between virus-positive and negative groups. PCoA based on Bray-Curtis distances was analyzed, and PERMANOVA was used to evaluate the variation





1 2 3

LDA SCORE (log 10)

-2 -1 0

-3

ella unclassified

0 LDA SCORE (log 10)

_4

_2

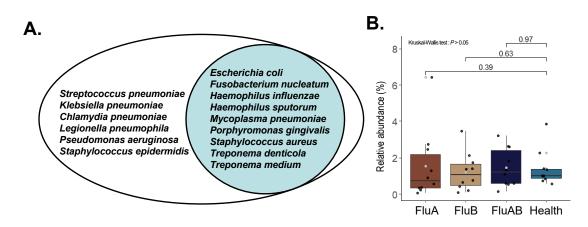


Figure S5. The relative abundance difference of potential pathogens between infected and healthy subjects. (A) Nine pathogenic species (in the blue circle) were identified in the oropharyngeal samples based on metagenomics sequencing analysis. (B) Kruskal-Wallis test and Wilcoxon test was used to calculate the relative abundance difference of nine pathogens between the infected and the healthy subjects.

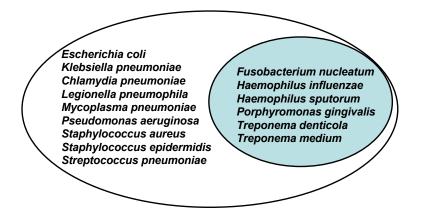


Figure S6. The growth rate of potential pathogens (in the blue circle) was detected based on metagenomics sequencing analysis.