|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **App dose** | **Vaccine** | **Sex** | **Colony counts** | **Pathology score** |
| **0** | **1-10** | **11-50** | **51-100** | **>100** | **< 2** | **≥ 2** |
| Low dose | Gudair | M:F: | 45 |  |  |  |  | 45 | 00 |
| control | M:F: | 41 |  | 1 |  | 2 | 42 | 20 |
| High dose | Gudair | M:F: |  |  | 1 | 43 |  | 00 | 44 |
| control | M:F: | 12 |  |  | 41 |  | 12 | 41 |

Supplementary table 1. Pathology score of lungs and colony counts of Ap reseeded from lung tissues, same as in Table 2, stratified by sex. M=male; F=female. For the high App dose: The relative risk (RR) for having a pathology score ≥2 comparing Gudair vaccinated with controls: RR=1.25 in males, RR=3 in females. Mantel-Haenszel test of homogeneity in males vs females of the relative risk (RR), p=0.14. For low App dose, the statistical test of homogeneity in males vs females could not be performed due to multiple outcomes with zero observations.