

Air changes/hour (ACH) and time required for airborne-contaminant removal by efficiency*

ACH	Time (minutes) required for removal 99% efficiency	Time (minutes) required for removal 99.9% efficiency
2	138	207
4	69	104
6 ⁺	46	69
8	35	52
10 ⁺	28	41
12+	23	35
15 ⁺	18	28
20	14	21
50	6	8

^{* &}lt;a href="https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#tableb1">https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#tableb1

Additional information:

- Ventilation requirements for areas affecting patient care in hospitals and outpatient facilities https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#tableb2
- Air change rates form typical rooms and buildings http://www.engineeringtoolbox.com/air-change-rate-room-d 867.html

⁺ Denotes frequently cited ACH for patient-care areas.