#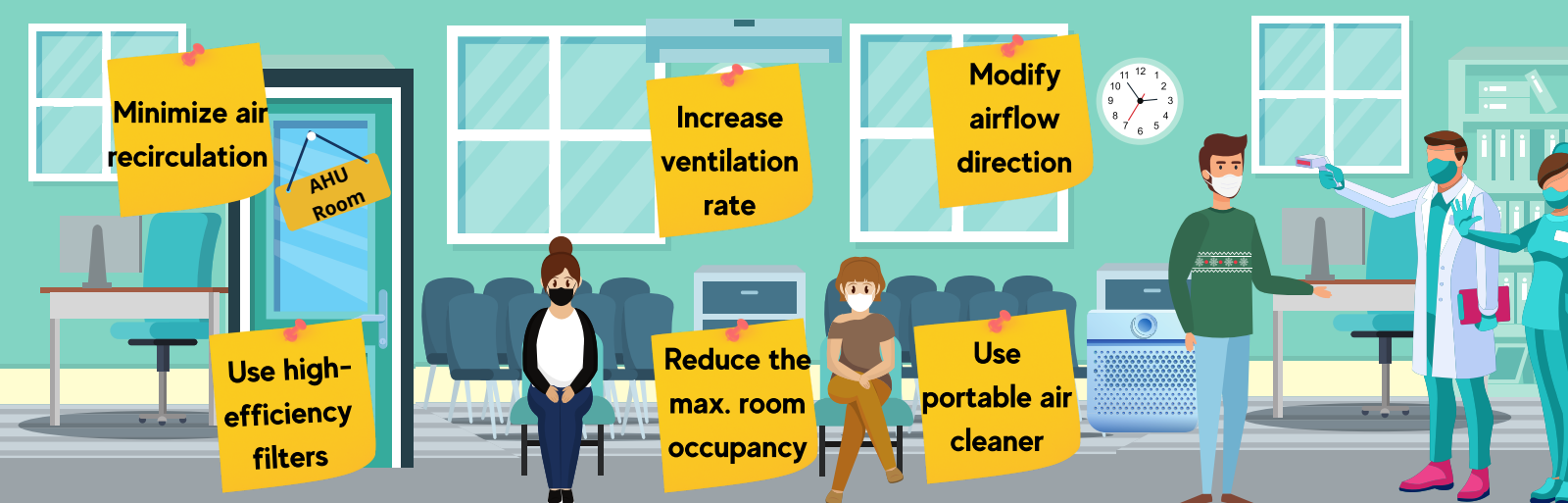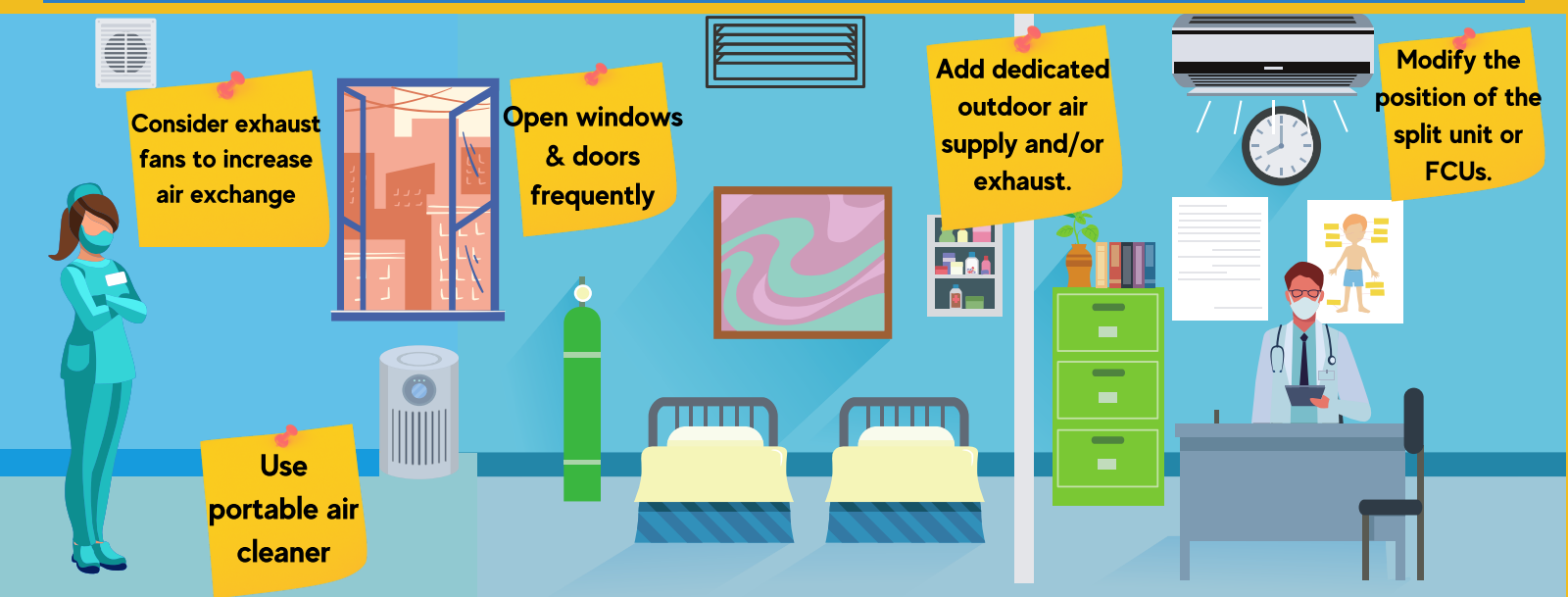 GUIDANCE NOTE TO BUILDING OWNERS AND BUILDING MANAGEMENTS ON VENTILATION AND INDOOR AIR QUALITY (IAQ) FOR HEALTHCARE FACILITIES SETTING DURING COVID-19 PANDEMIC

AIR–CONDITIONED FACILITIES WITH MECHANICAL VENTILATION

- Minimize air recirculation
- AHU Room
- Use high-efficiency filters
- Increase ventilation rate
- Reduce the max. room occupancy
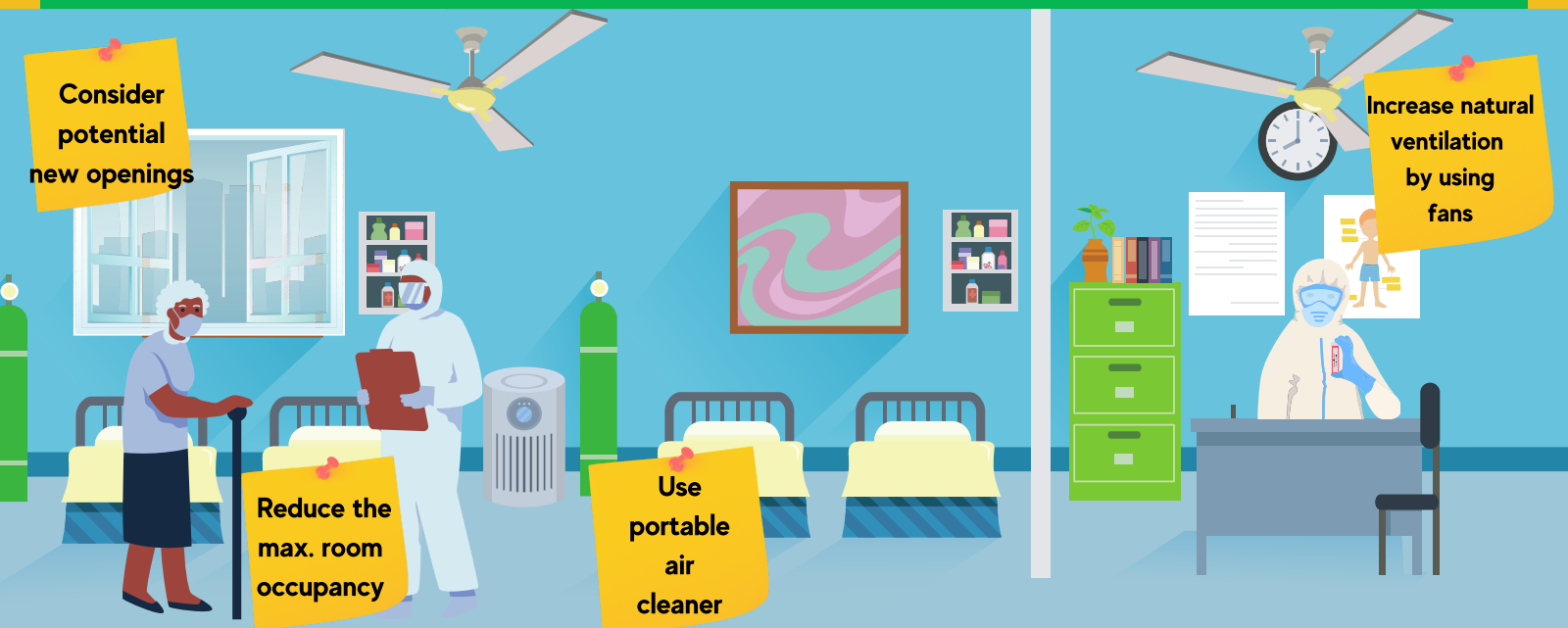- Modify airflow direction
- Use portable air cleaner

- To increase the ventilation rate according to system capabilities.
- Consider reducing the maximum room occupancy.
- Modify airflow direction by relocating supply and return air devices if necessary.
- Set recirculation air dampers to a minimum according to system capabilities if possible.
- Use high-efficiency filters (at least MERV14 or F8 is recommended) in AHUs.
- Consider to use air-cleaning technologies that be able to kill microbe in AHUs or ducting.
- Consider to use a stand-alone ai cleaner with appropriate filters if no other (short-term) strategy can be adopted.

AIR–CONDITIONED FACILITIES WITHOUT FRESH AIR SUPPLY

- Consider exhaust fans to increase air exchange
- Open windows & doors frequently
- Add dedicated outdoor air supply and/or exhaust.
- Modify the position of the split unit or FCUs.
- Use portable air cleaner

- Open operable windows and doors as frequently as possible, unless outdoor/outside air quality is poor.
- Consider reducing the maximum room occupancy.
- Consider positioning extractor/mounted exhaust fans at windows to blow air outwards and increase air exchange.
- Consider adding dedicated outdoor air supply and/or exhaust.
- Modifying the position of the split unit or FCUs to direct the airflow to the less clean zone or install an extractor to control the airflow where AGP are performed.
- Consider to use a stand-alone air cleaner with appropriate filter if no other (short-term) strategy can be adopted.

NATURAL VENTILATION FACILITIES

- Consider potential new openings
- Increase natural ventilation by using fans
- Reduce the max. room occupancy
- Use portable air cleaner

- Assess the opening locations and opening surfaces considering potential new openings.
- Consider enabling cross ventilation rather than single-sided ventilation.
- Consider reducing the maximum room occupancy.
- The airflow direction should be from clean to less clean area.
- Increase natural ventilation with enhancement by fans.
- Consider to use a stand-alone air cleaner with appropriate filter if no other (short-term) strategy can be adopted.