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OBJECTIVES

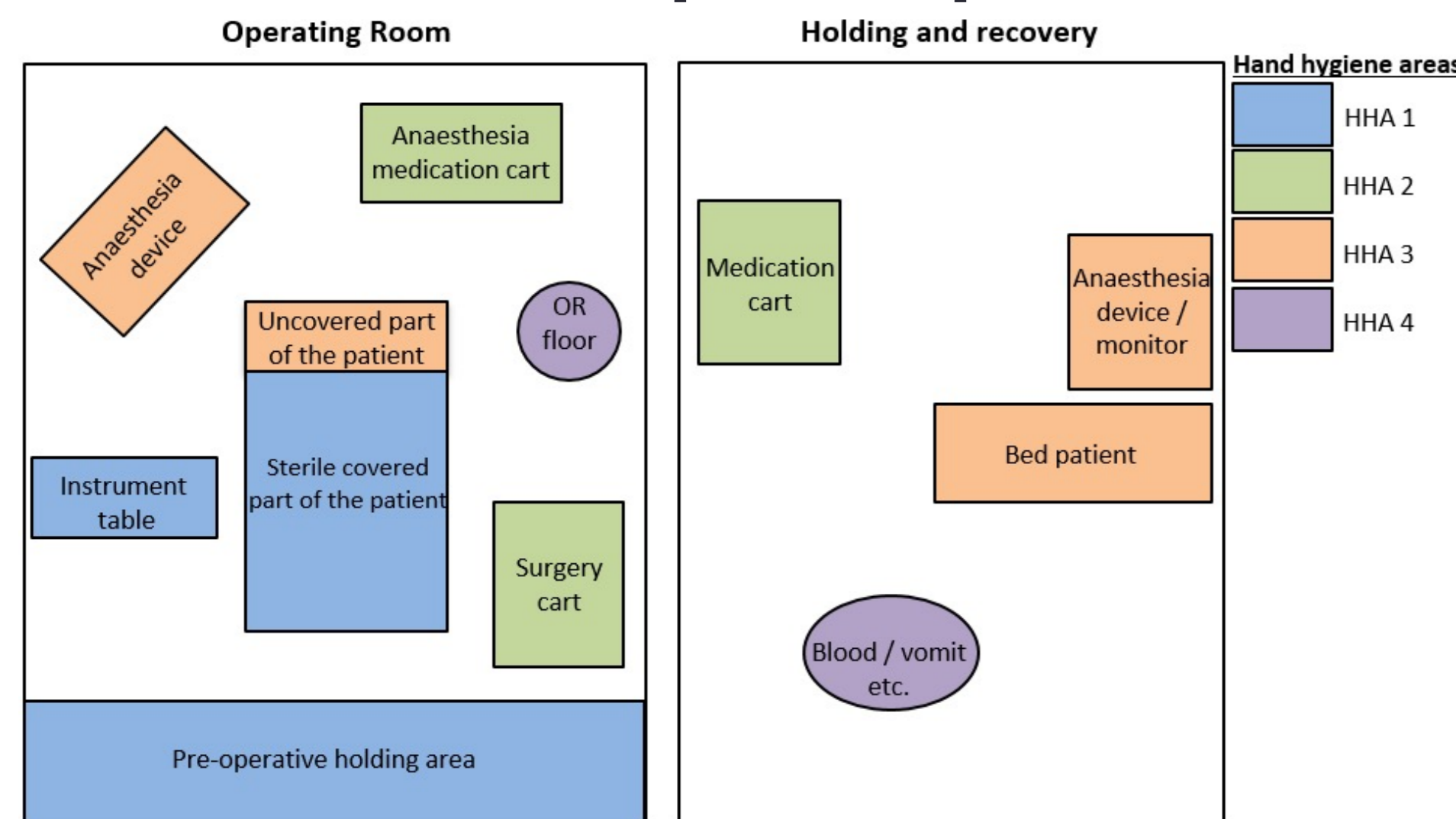
1. To develop, test and implement a protocol with simplified moments of hand hygiene for personnel that are not sterile in the operating room.
2. To develop a training for all the personnel that are not sterile in the operating room based on the newly developed protocol.

SUMMARY / CONCLUSION

- Hand hygiene observations in the OR can now be performed in a uniform manner in all hospitals in the Rotterdam-region.
- It is now possible to compare hand hygiene results, as well as creating friendly competition between hospitals.
- Hand hygiene compliance in the OR is in general low, differences are seen between hospitals and specialisms. This needs attention.

RESULTS

Phase 1: Development protocol



Phase 2: Baseline measurement

- 20 operations
- 861 hand hygiene opportunities (HHO)
- Median of 126 HHO (range: 114-211)
- 48.0% average hand hygiene compliance (range: 23.1%-76.7%)
- 57.4% OR-assistants (305 HHO), 48.8% nurse anesthetists (289 HHO), 41.2% Surgeons (131 HHO), 31.6% Anesthetists (136 HHO)

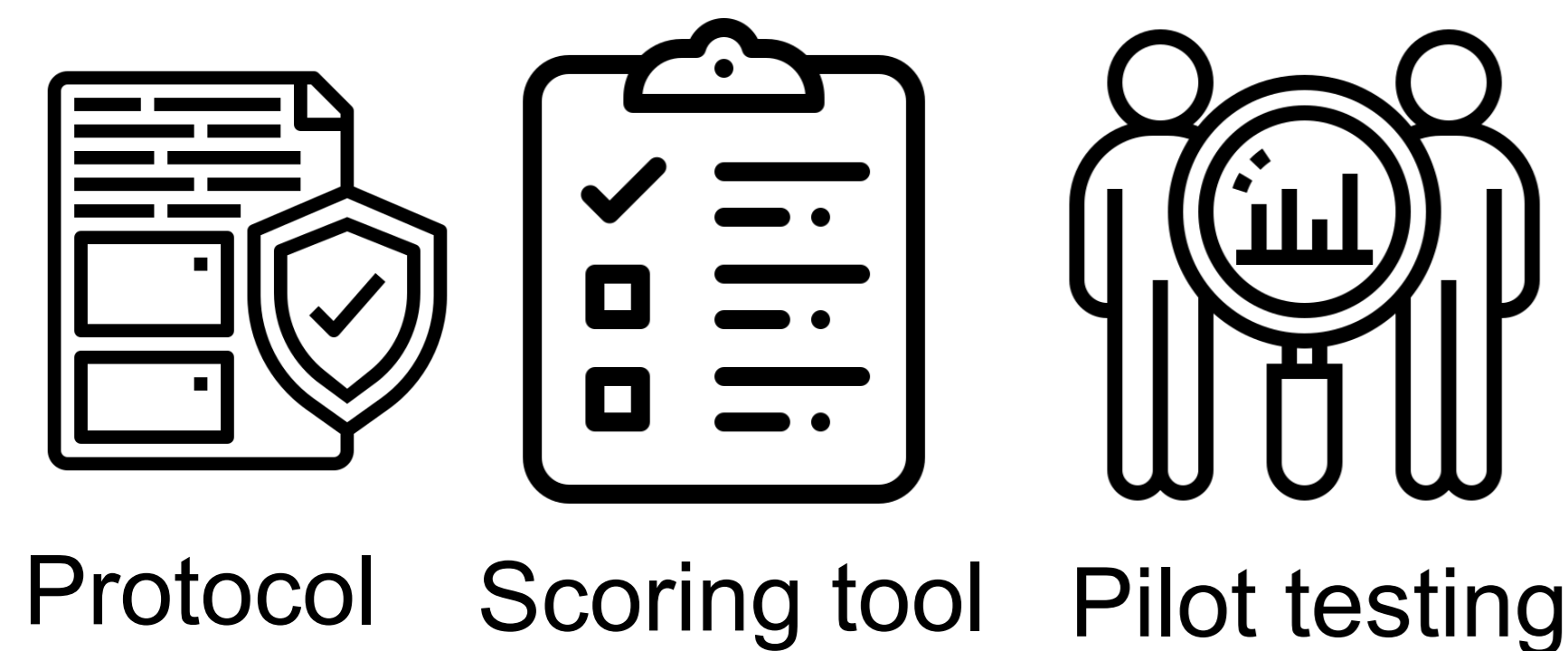
Phase 3: Intervention

Step 1	Step 2	Step 3	
Watch video explaining the protocol	Self study the protocol	Take online exam	OR personnel is sufficiently trained

MATERIAL & METHODS

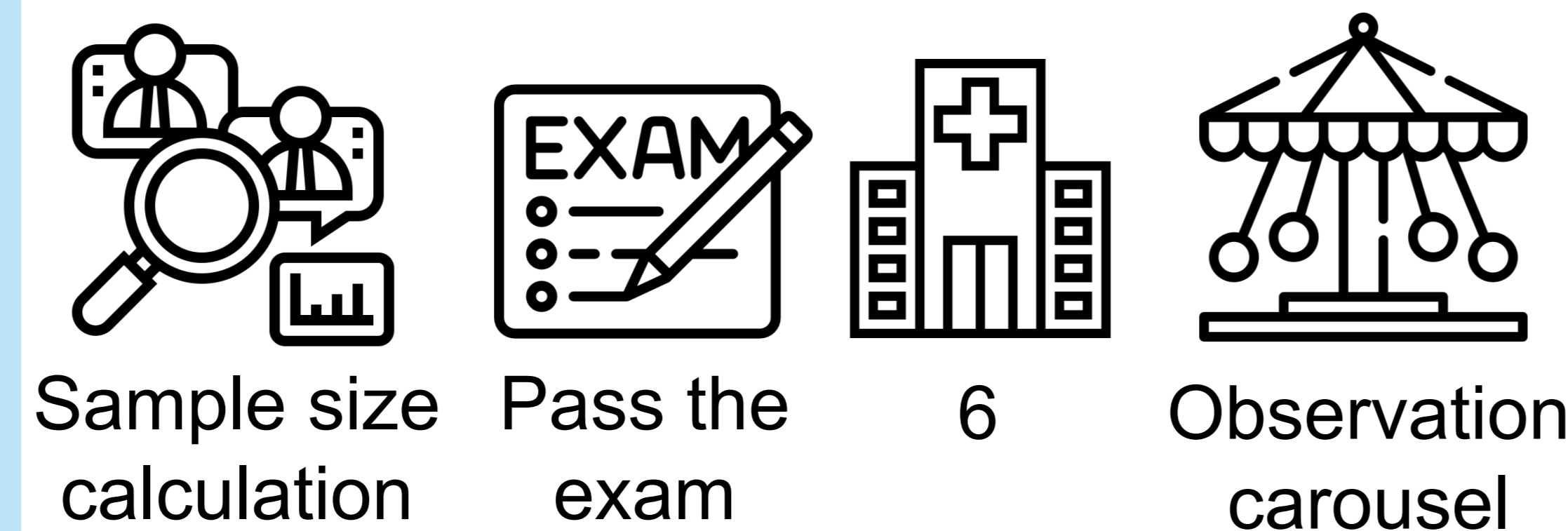
Phase 1: Development protocol

May 2019 – August 2019



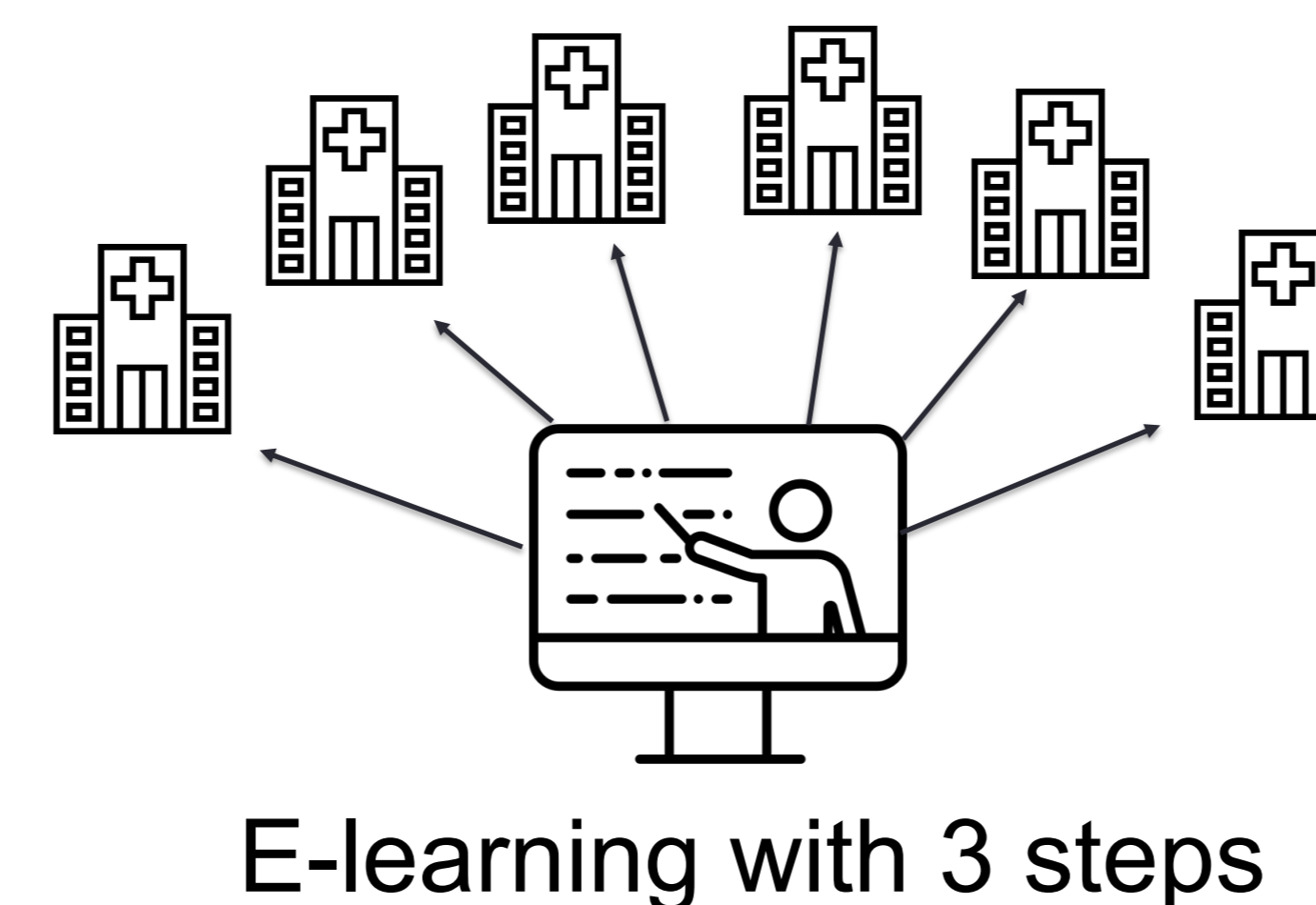
Phase 2: Baseline measurement

January 2020 – February 2020



Phase 3: Intervention

June 2020 – March 2021



Future research

- Perform a post-intervention observation, to investigate whether hand hygiene compliance in the OR has increased and use this information to measure the effect of the implementation of the protocol.
- Establishing a system where ORs get observed on a frequent basis.
- Identifying hospitals that often have low hand hygiene compliance scores in the OR and investigate how we can support or facilitate them to perform better.