

An Update on BC-AIR: British Columbia's Provincial Registry Tracking Emergency Intubations



AUTHORS

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INTRODUCTION

Intubation is a high-risk procedure, particularly in non-operative settings. A provincial airway registry was created in 2016 to collect data about emergency intubations in British Columbia, Canada. Data is collected from three major tertiary care centers in Vancouver, with plans to expand to other areas in BC. Here, we provide an update of our registry data from 2016 to 2022 based on two tertiary care sites: Vancouver General Hospital (VGH) and St. Paul's Hospital (SPH).

OBJECTIVES

Tracking

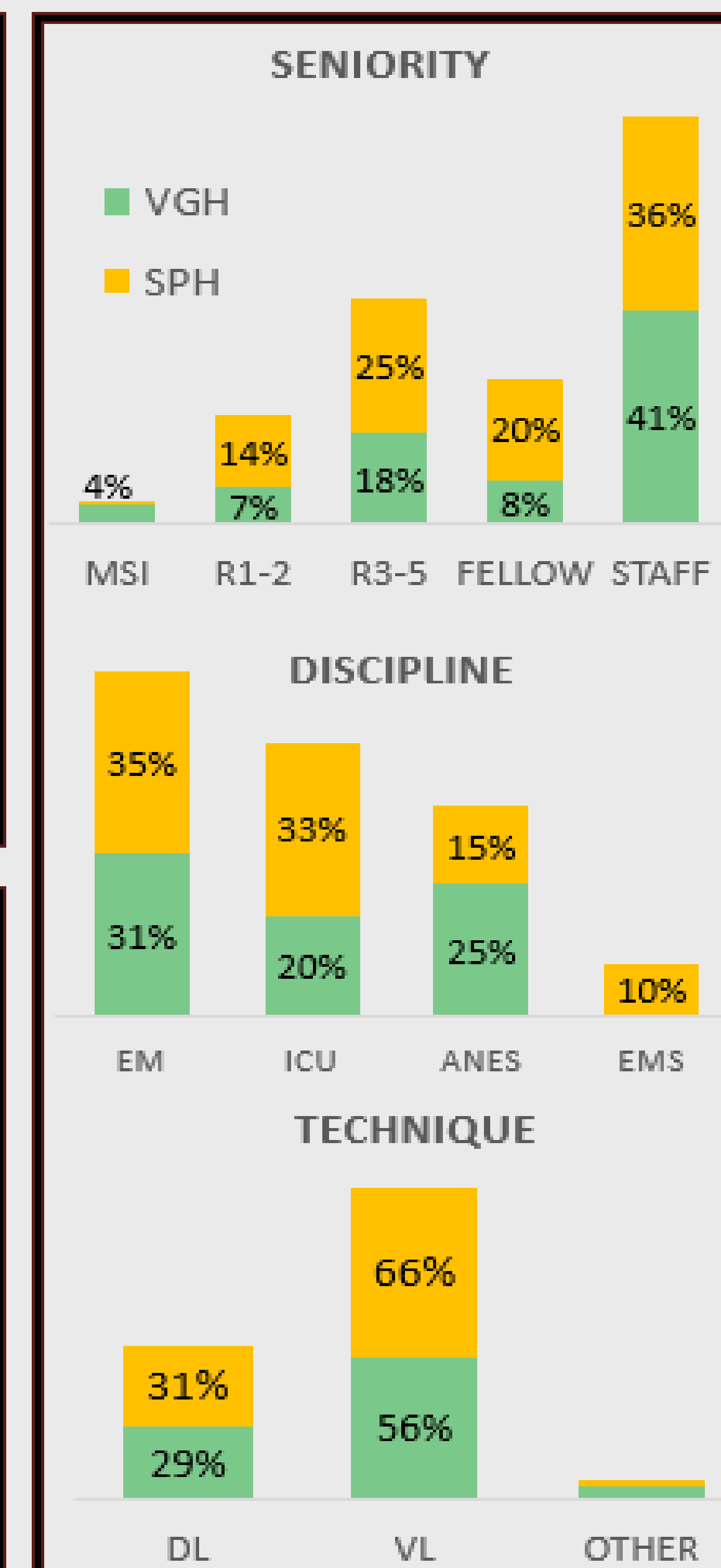
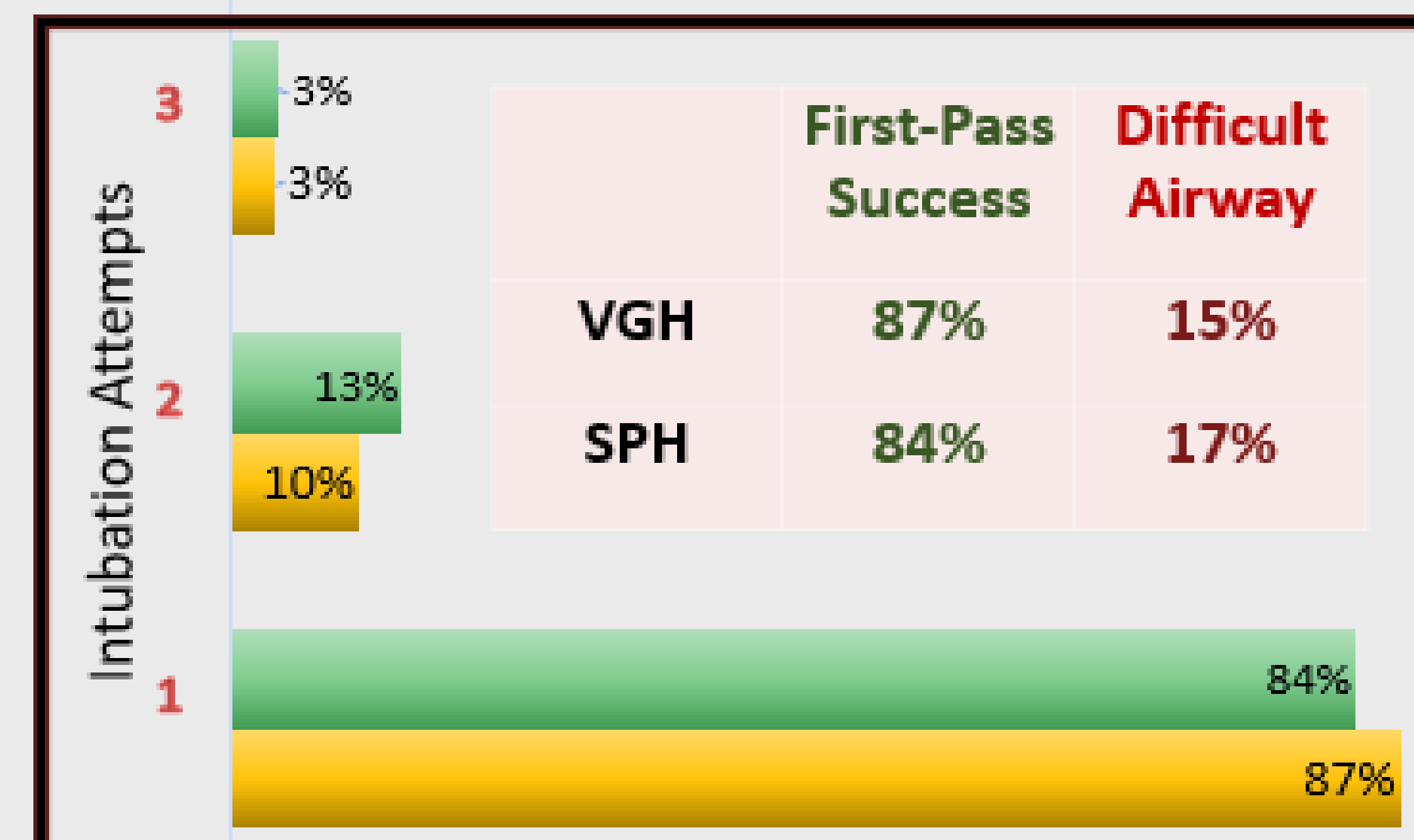
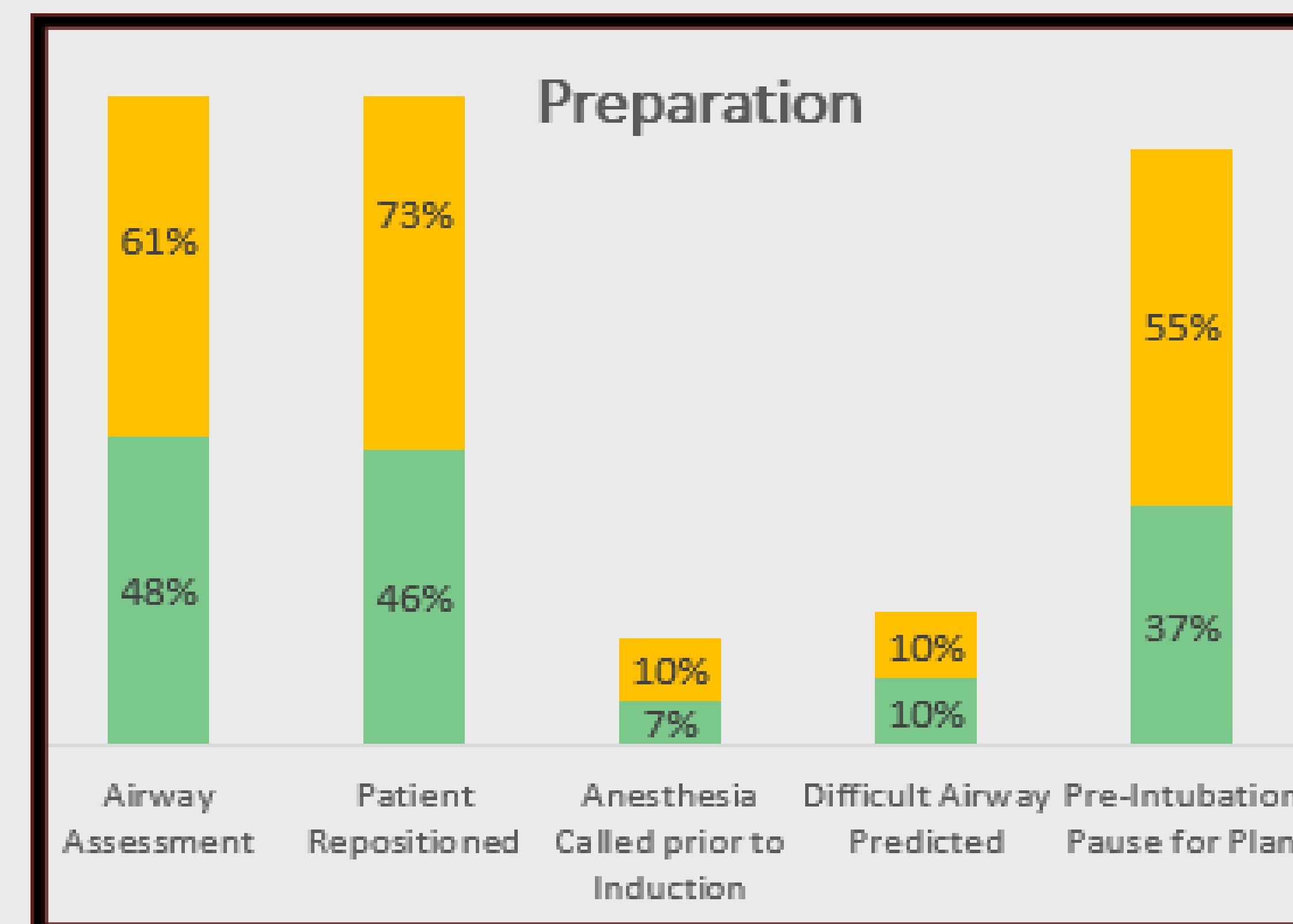
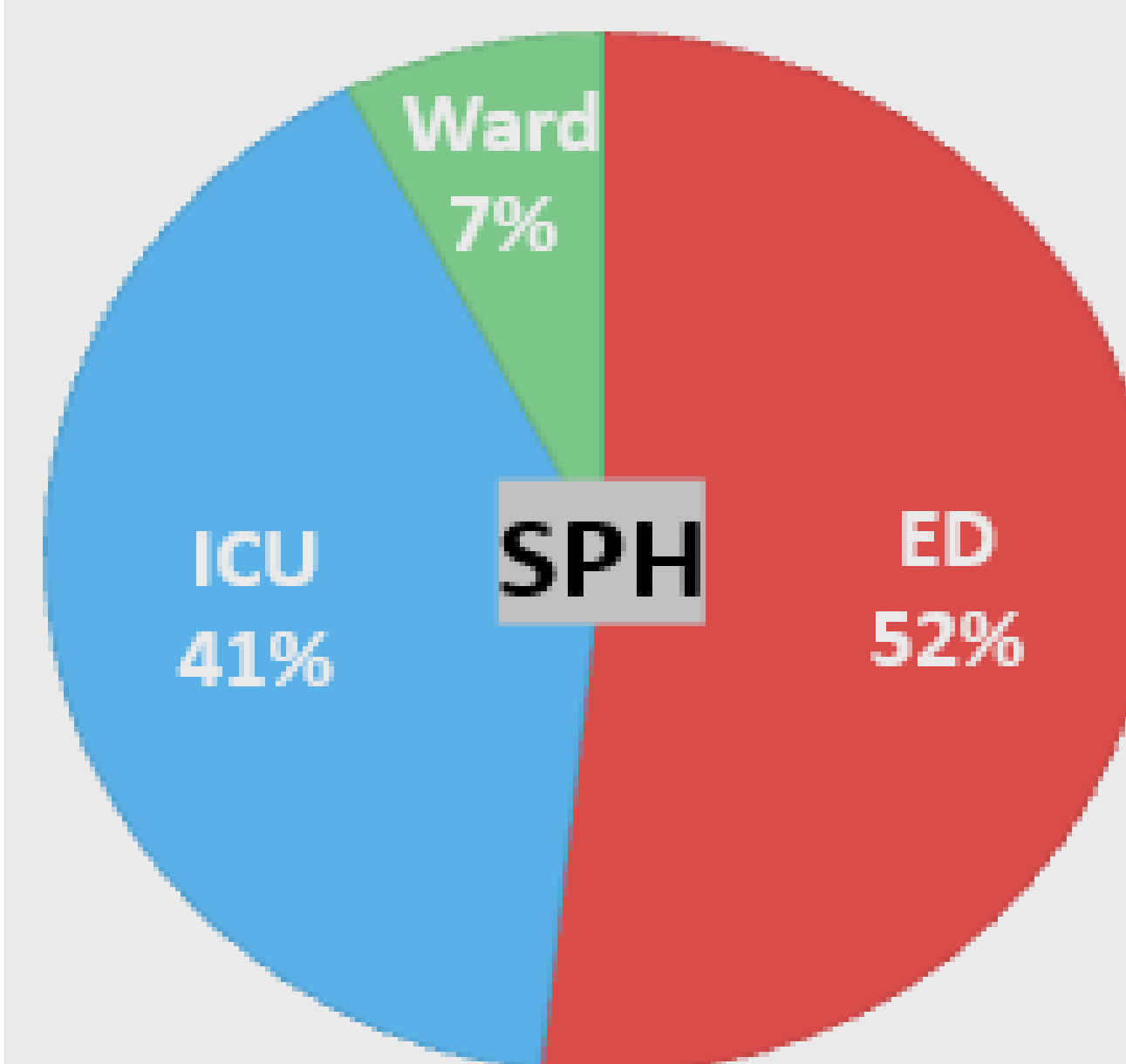
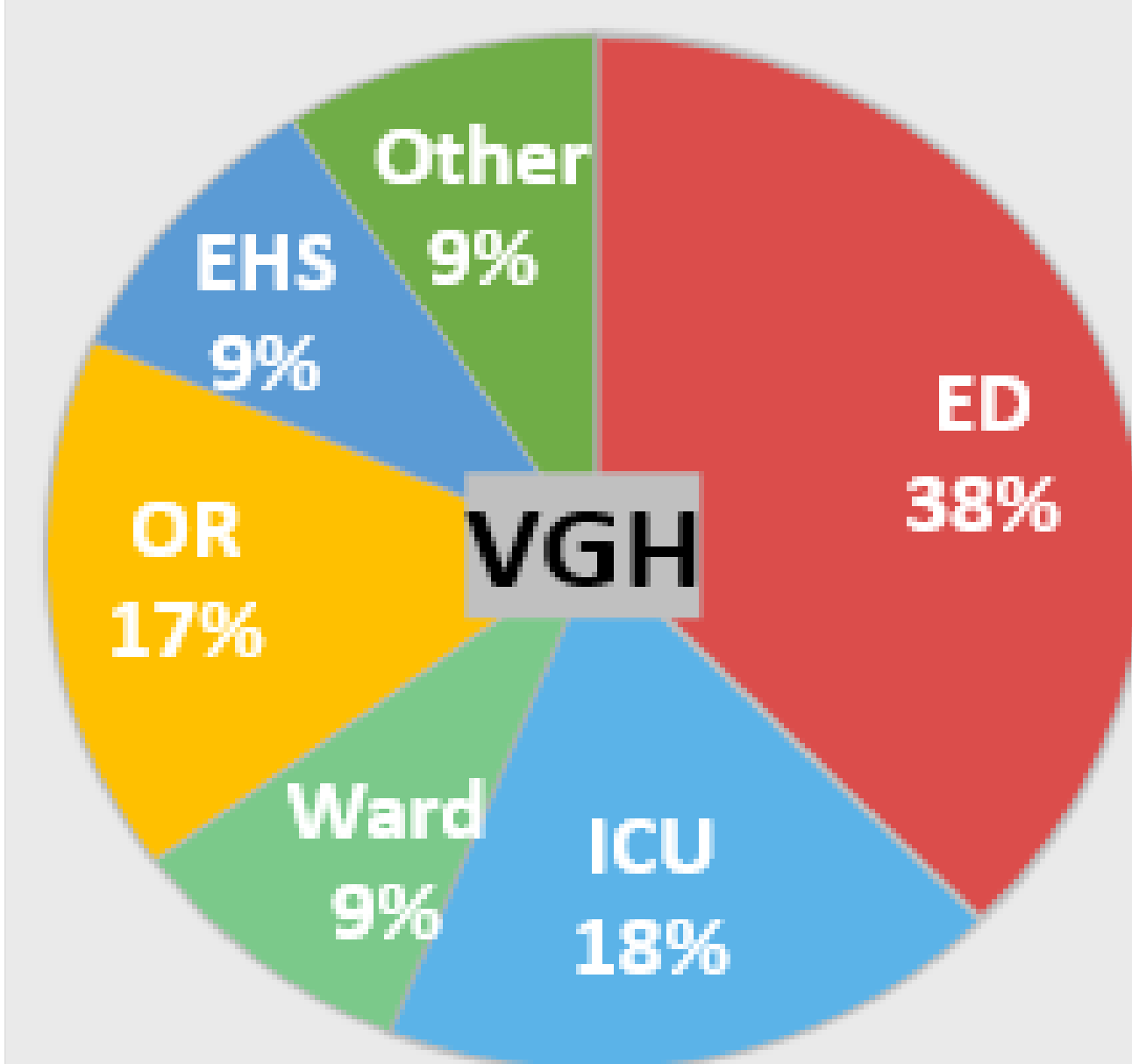
- Location and frequency of intubations
- Preoxygenation and intubation techniques
- Discipline of intubators and equipment used
- First pass success & difficult intubations
- Complications
- Methods of confirmation of intubation

METHOD

Forms are completed by RTs after each emergency intubation and entered into RedCAP by medical students

Inclusion Criteria	Exclusion Criteria
All emergency in-hospital intubations; off-site intubations by EMS or in alternate facilities with subsequent transfer to hospital	Elective intubations in OR without transfer to ICU.

RESULTS



CONCLUSION

- First pass success at VGH & SPH >80% with VL as preferred technique (>55% usage rate).
- Difficult airway rates are < 20%.
- Valuable QI and research tool for evaluation of efficacy of interventions, such as pre-intubation checklists.
- Implementation of similar registries in Canadian centres an opportunity for national comparison.

ACKNOWLEDGEMENTS

Thank you to our team of medical students and residents for their hard work in data input.

REFERENCES

1. Sakles JC, Augustinovich CC, Patanwala AE, Pacheco GS, Mosier JM. Improvement in the Safety of Rapid Sequence Intubation in the Emergency Department with the Use of an Airway Continuous Quality Improvement Program. West J Emerg Med 2019;20:610-8.
2. Walls RM, Brown CA, Bair AE, Pallin DJ. Emergency airway management: a multi-center report of 8937 emergency department intubations. J Emerg Med 2011;41:347-54.
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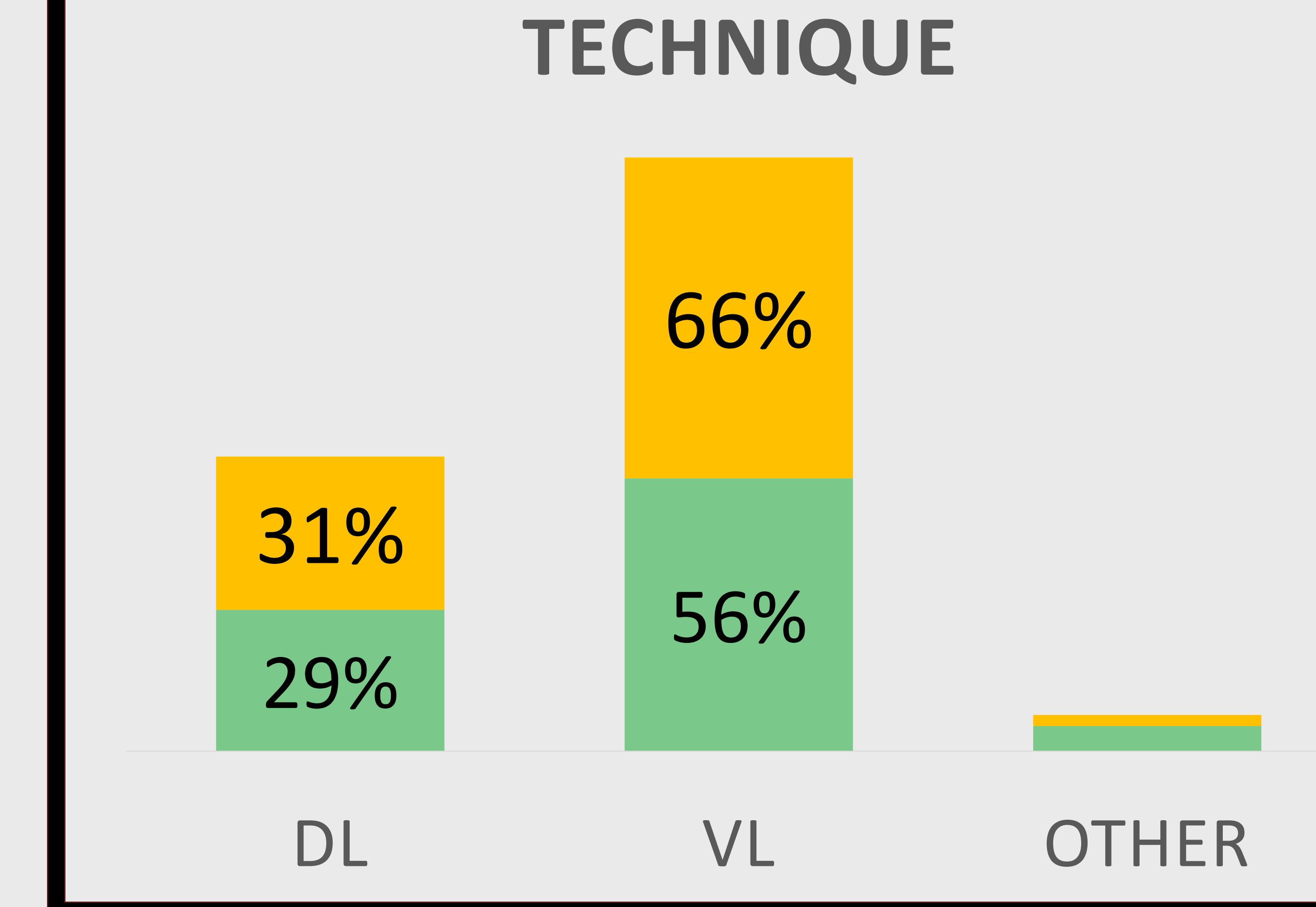
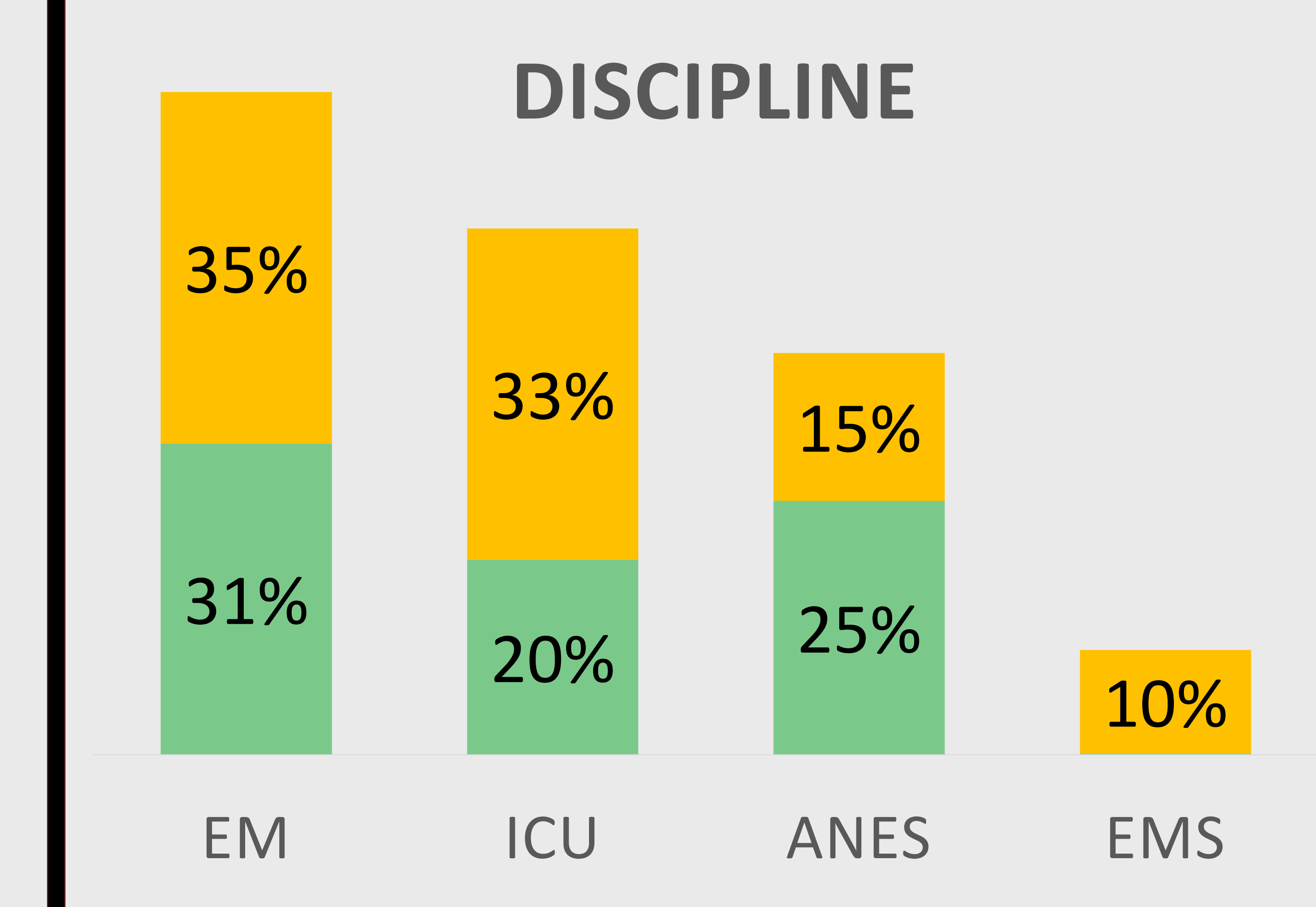
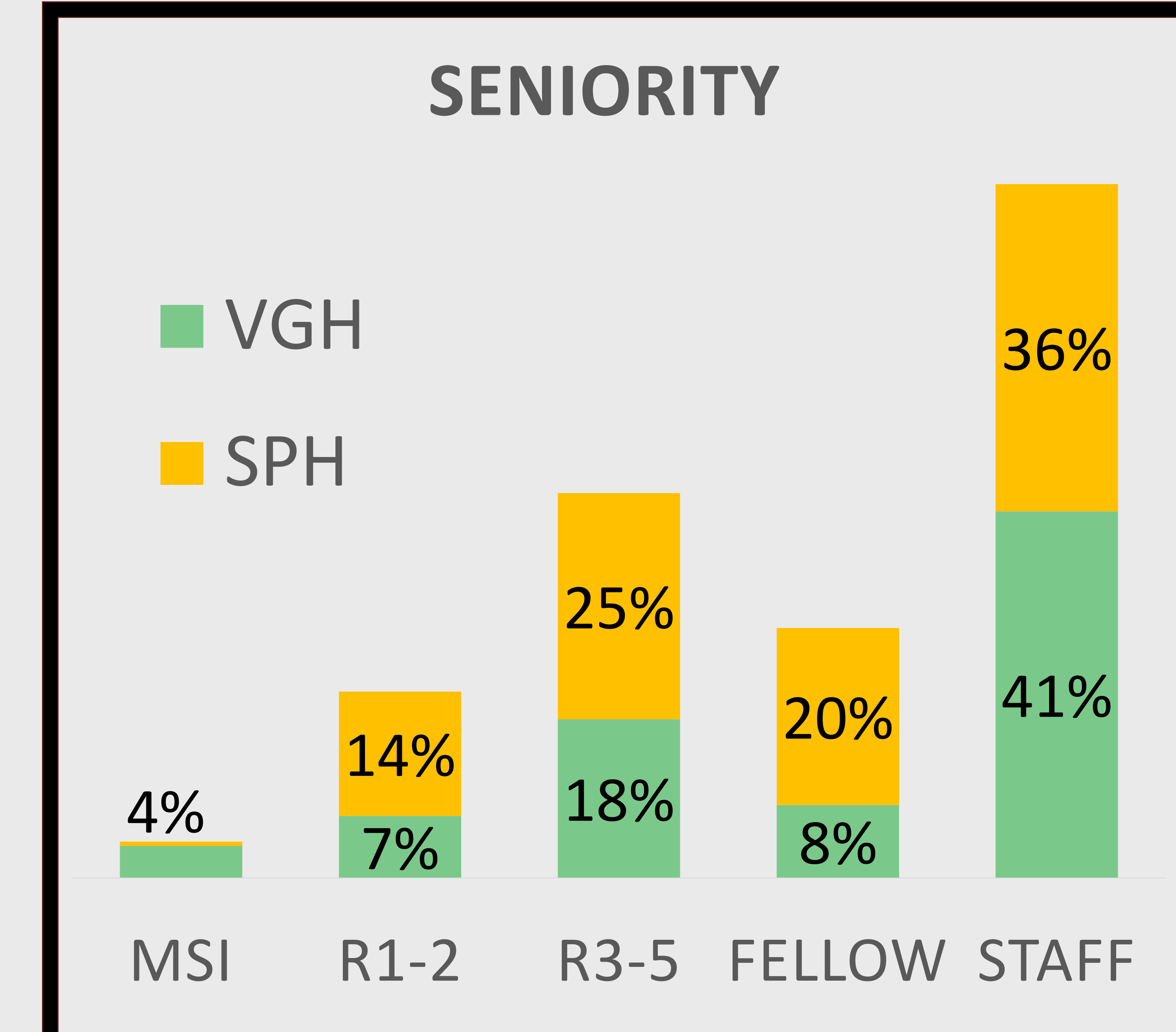
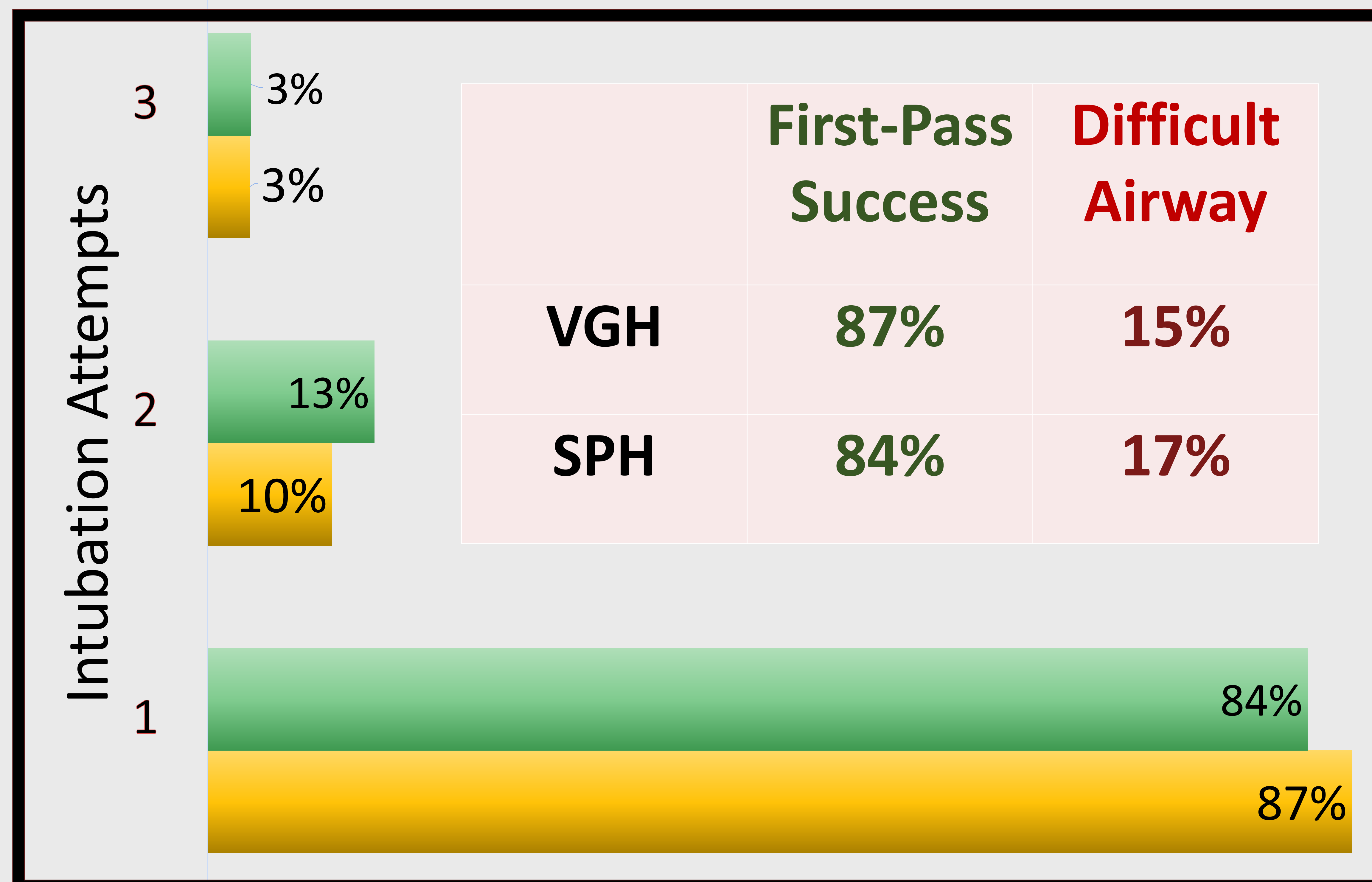
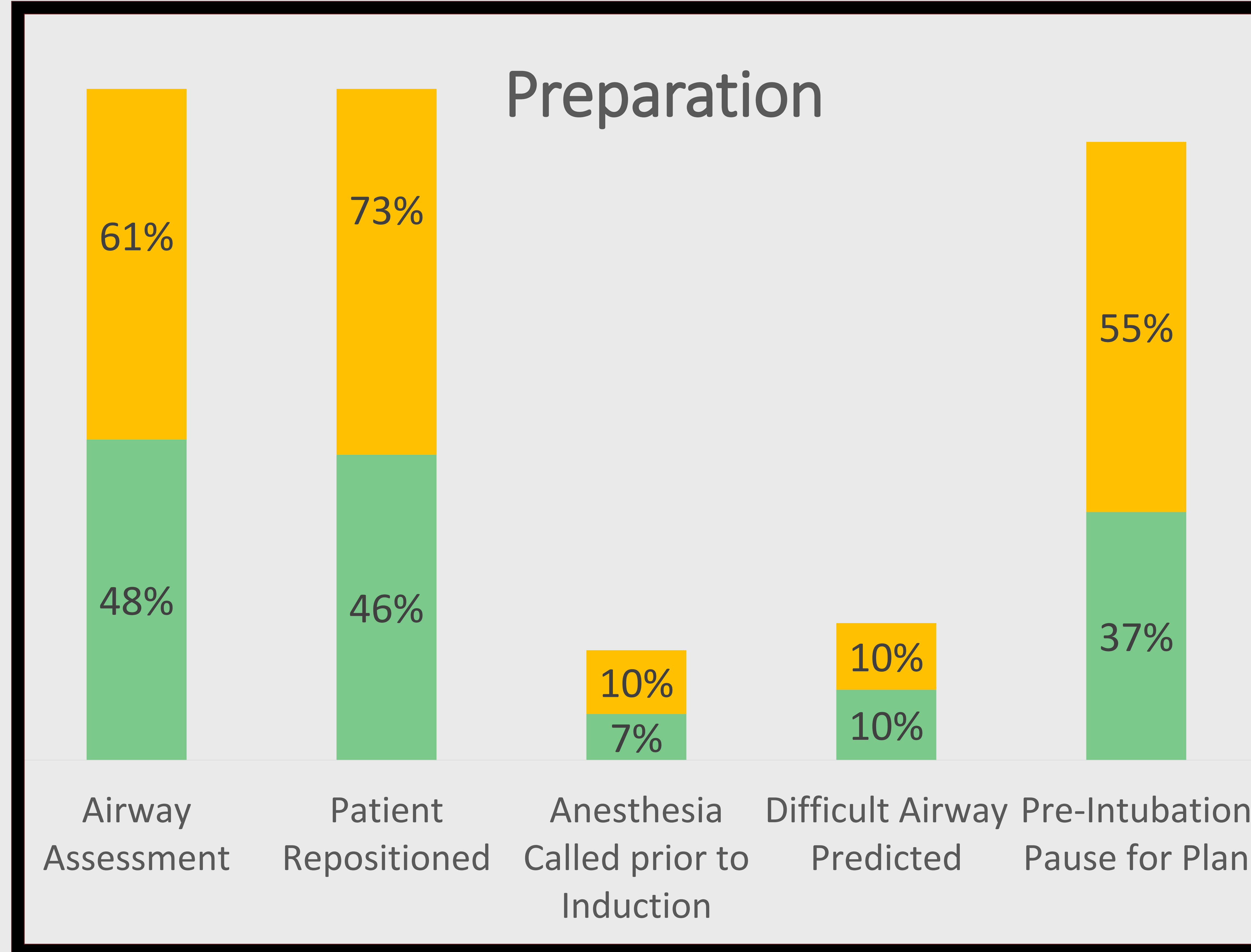
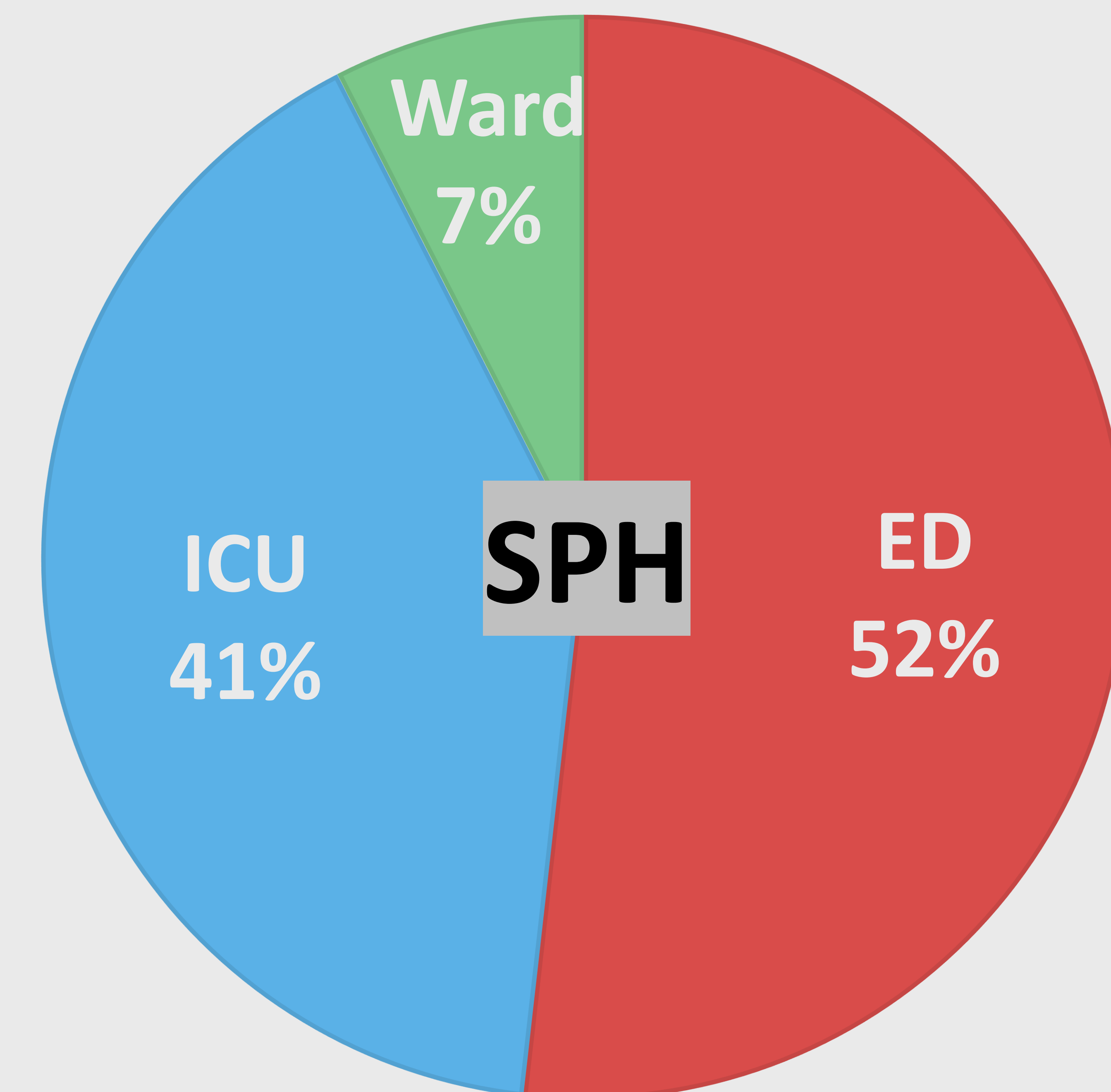
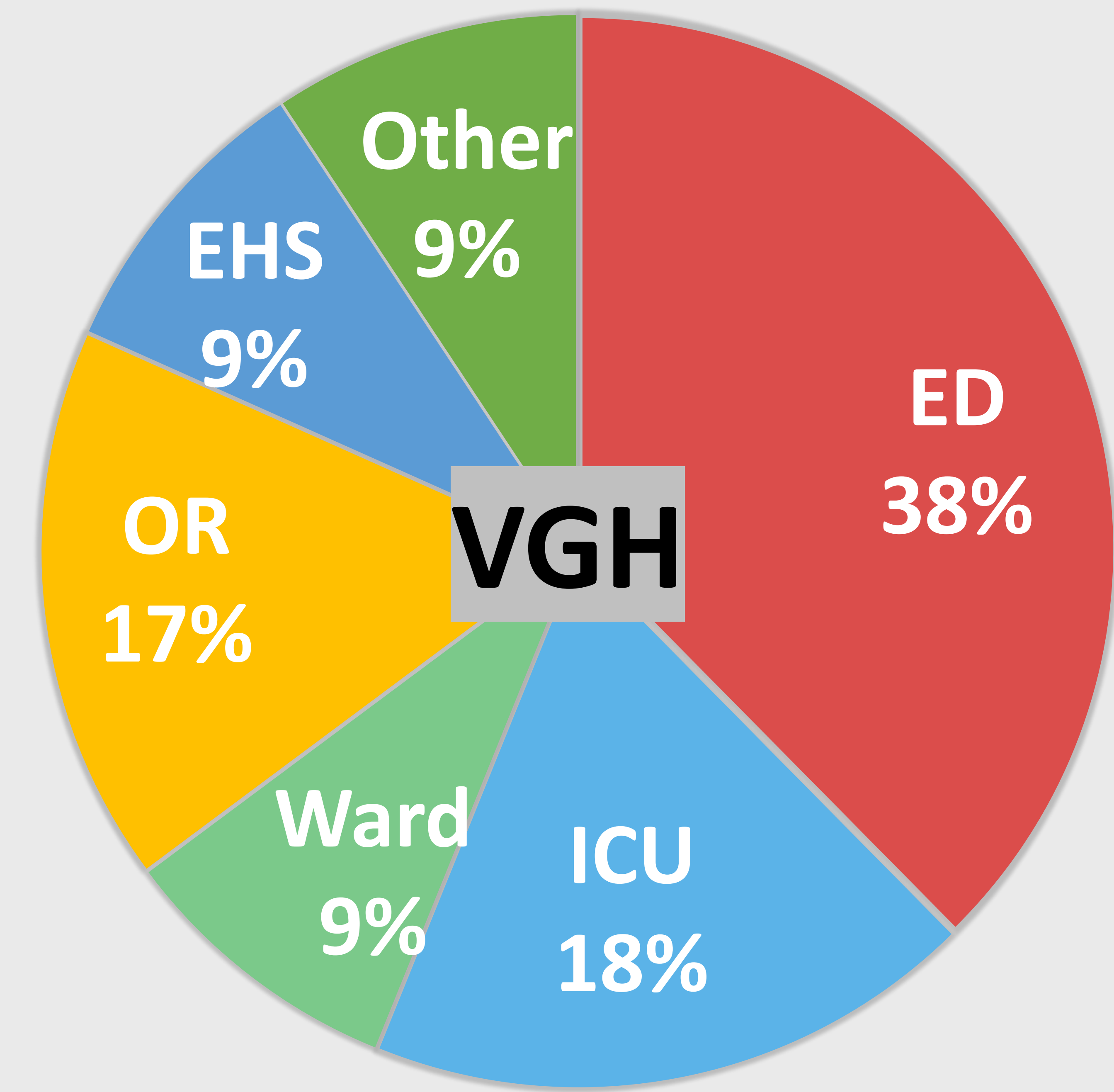
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