



20th Meeting of the Asian Society of Paediatric Anaesthesiologists (ASPA 2024) & 3rd Malaysian Society of Paediatric Anaesthesiologists Meeting (PAM)

# Anesthesia Consideration for Newborn Surgical Emergencies in National Pediatric Hospital, 2023



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## Disclosure Slide

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# ASPA 2024



## Overview of Cambodia

- King: Norodom Sihamoni
- The Prime Minister: Samdach HUN Manet
- Location: Southeast Asian
- Area: 181,035 sq km
- Capital: Phnom Penh



## Contents

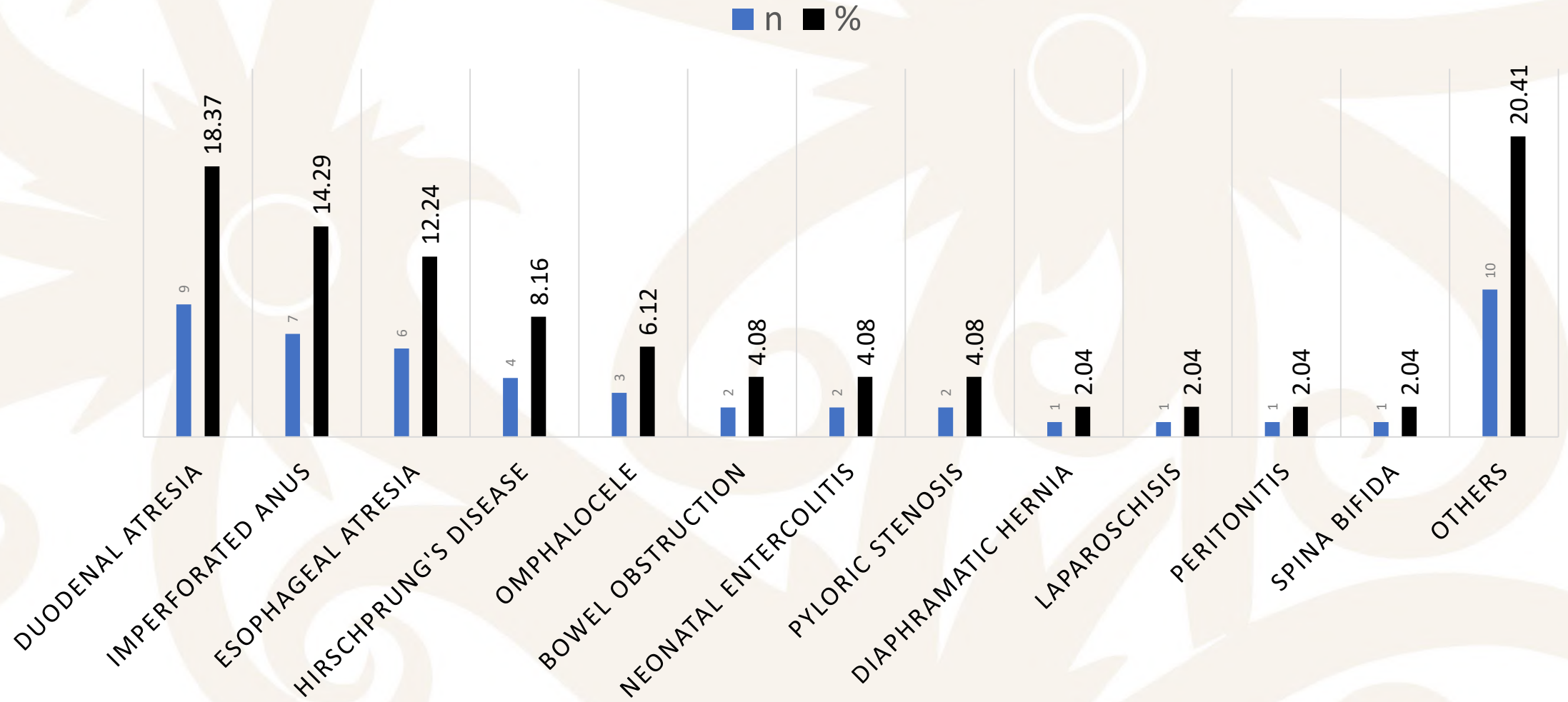
- Diagnosis and Incidence of Newborn Surgical Emergency
- Diagnosis of Newborn Surgery Emergency in NPH
- Pre-operative Assessment
- Induction Anesthesia Drugs
- Patient Monitor
- Post-Operative Care
- Conclusions

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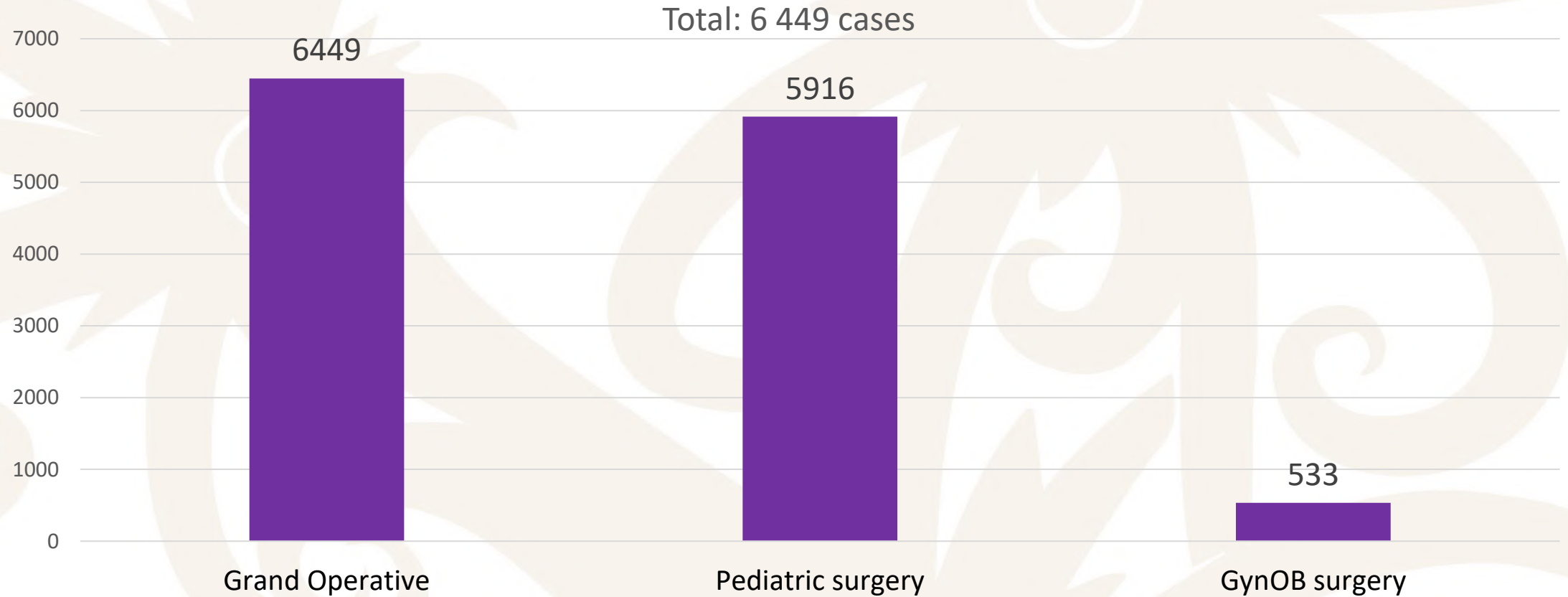
# Diagnosis and Incidence of Neonatal Surgical Emergency

- 1- Pyloric stenosis : 3:1000 live births.
- 2- Omphalocele : 1/6000 to 1/10 000 live births.
- 3- Gastroschisis : 1/30 000 live births.
- 4- Necrotizing enterocolitis (NEC) :1:2000 live births.
- 5- Imperforate anus :1/5000 live births.
6. Intestinal obstruction : 1:5000 live births
- 7- Tracheo-oesophageal fistula/oesophageal atresia (TEF/EA) :1:3000-4500 live births
- 8- Congenital diaphragmatic hernia :1/2000 to 1/5000 live births.

# Diagnosis of Newborn Surgical Emergency, NPH

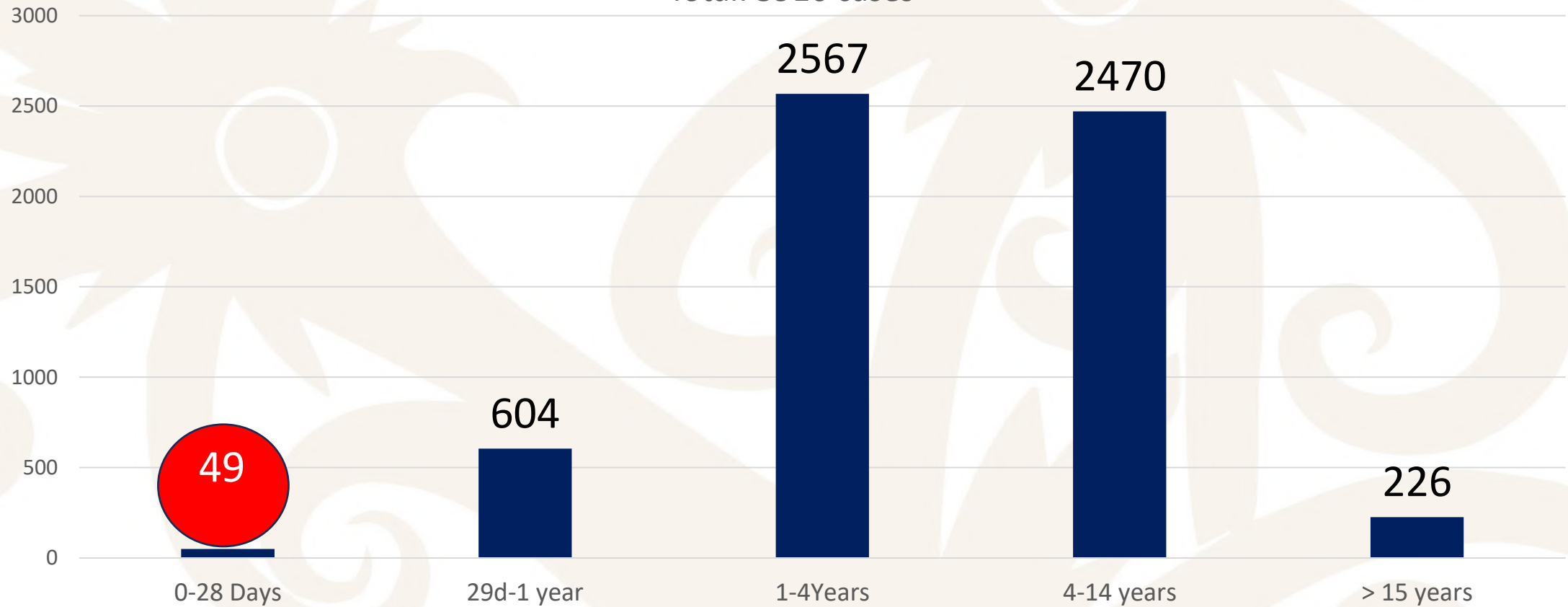


# NPH Data for Total Anesthesia-surgical, 2023



# Age group

Total: 5916 cases



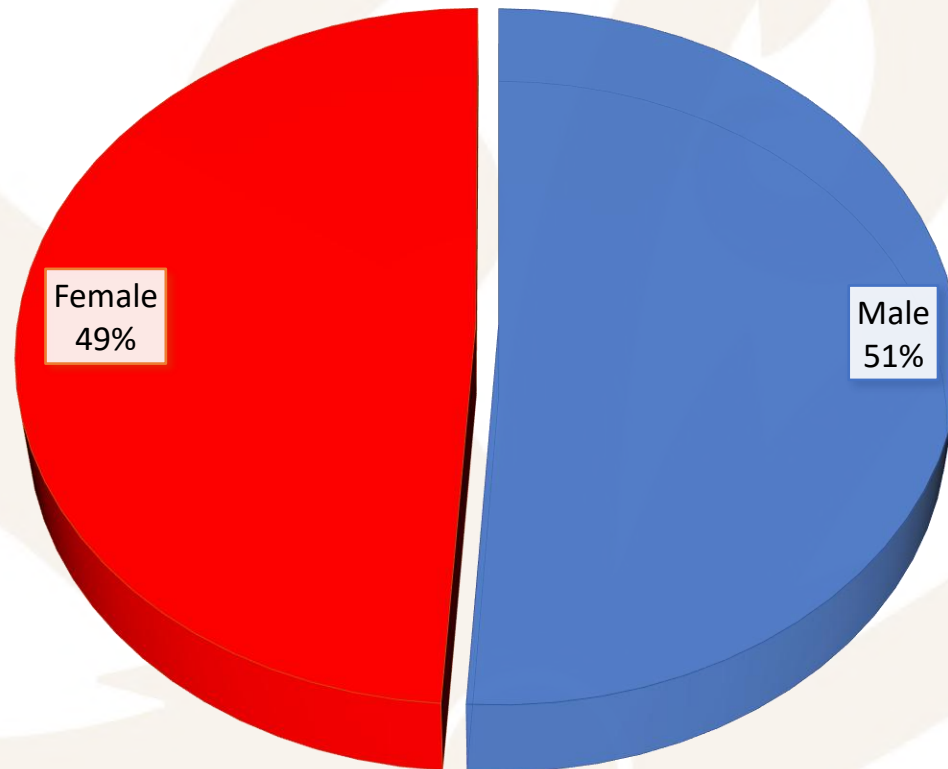
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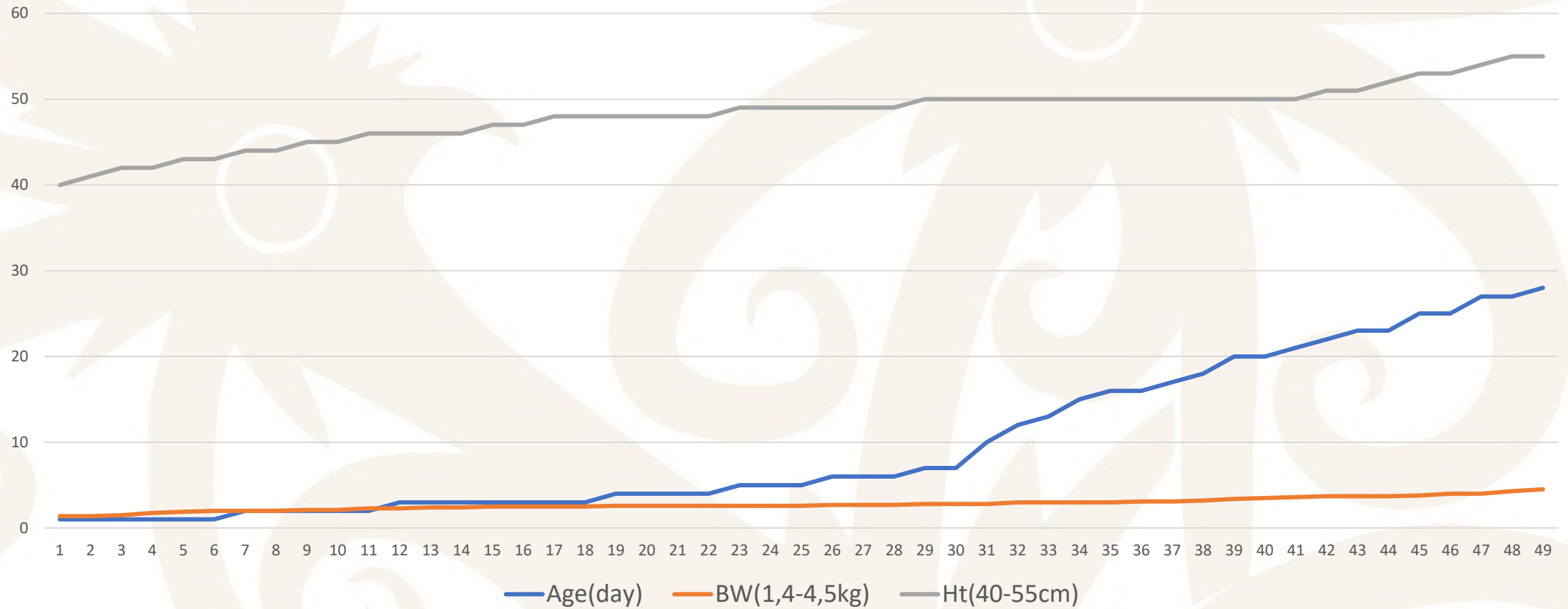


# Sex

TOTAL: 49 CASES

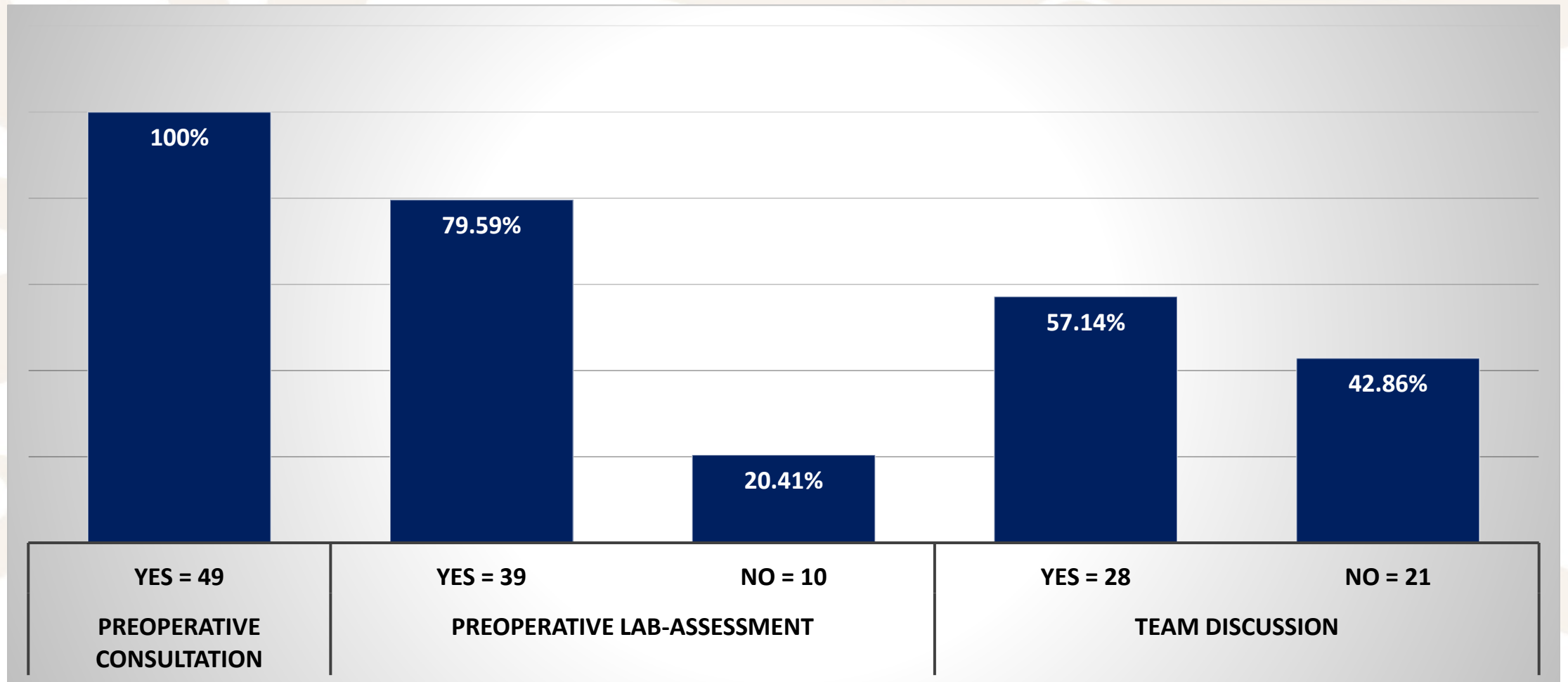


# Age, Body Weight, Height

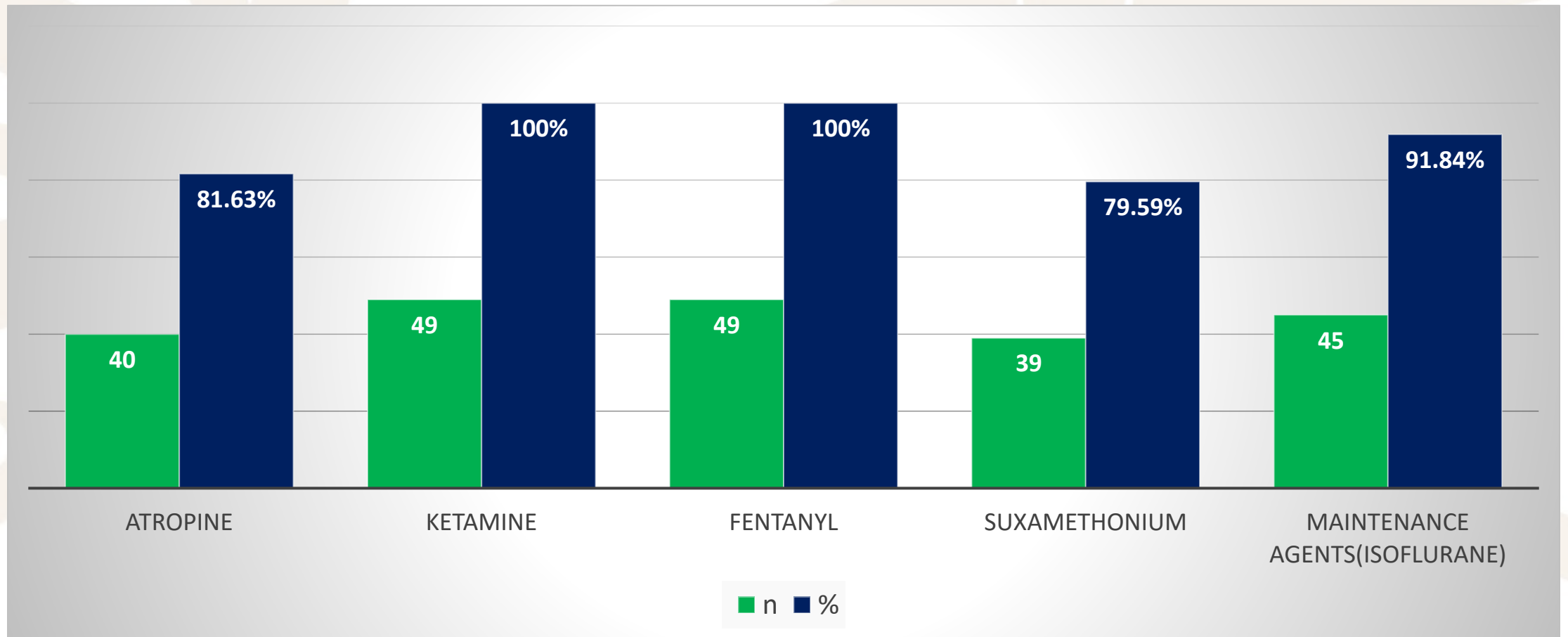


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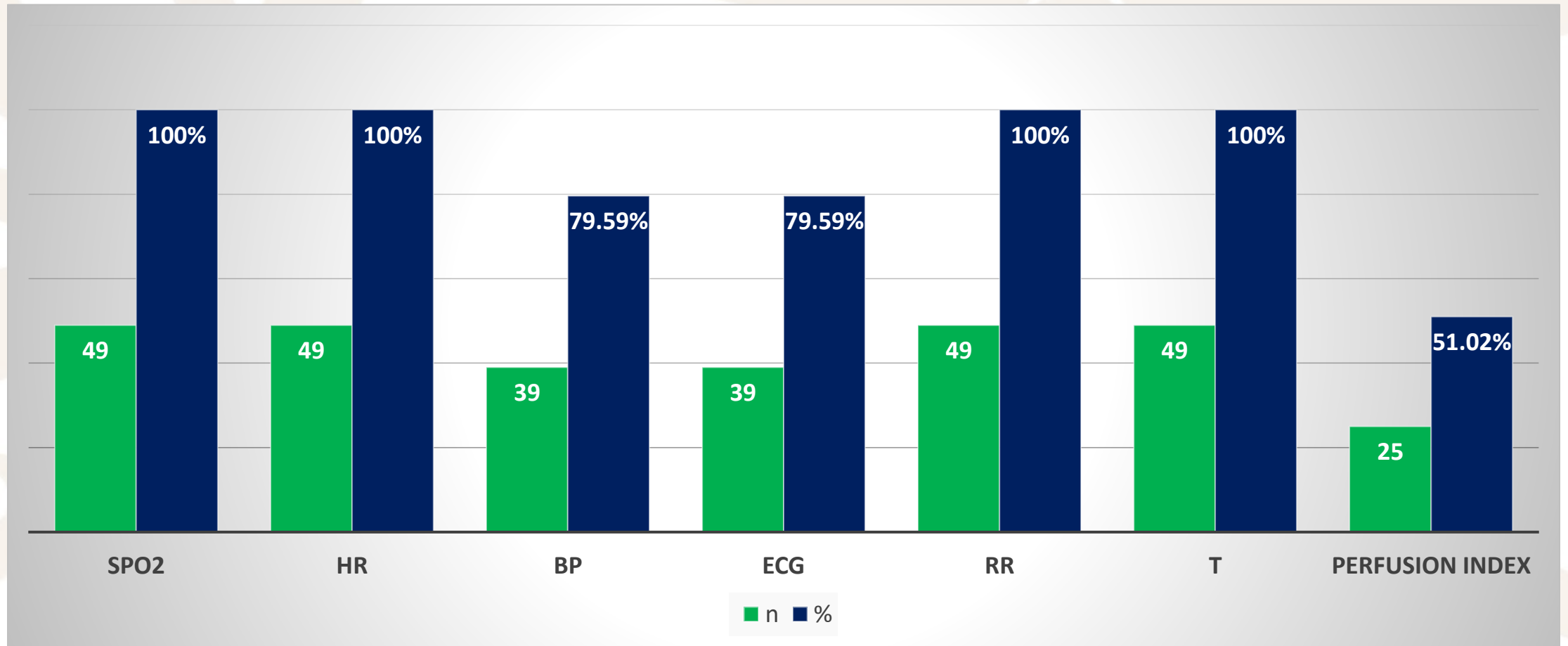
# Pre-operative Assessment



# Induction Anesthesia Drugs



# Patient Monitor





# A discussion with parents includes the planned

- The conduct of General anaesthesia
- Airway management
- Pain relief
- Post-operative monitoring
- Fluid management
- Blood transfusion
- Admission to Paediatric intensive care unit (PICU).



# CONCLUSION

The responsibility of treating neonates with severity of illness is challenging.

However, smallest and sickest neonates can be successfully anaesthetised with proper planning, attention to minute detail and adequate knowledge of newborn physiology.



# Picture of the newborn surgical emergency





# Thanks



Malaysian Society of Paediatric  
Anaesthesiologists (MSPA)



Asian Society of Paediatric  
Anaesthesiologists



8/1/2024

ASPA-TEP SOKHA

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# REFERENCES

Data from National Pediatric Hospital, Peth  
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[www.nphcambodia.org](http://www.nphcambodia.org)



**ASPA 2024**



**ASPA-SAFE PAN INSTRUCTORS' TRAINING WORKSHOP**  
**Saturday, 25th May 2024 at Siem Reap, Cambodia**



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