

RISK FACTORS FOR ADVERSE DRUG REACTIONS IN PATIENTS UNDERGOING GENERAL SURGERY: A PROSPECTIVE OBSERVATIONAL STUDY

Vinoj J, James G, Kothamasu RK, Saraswathy GR
 Ramaiah University of Applied Sciences-Bangalore ,Karnataka

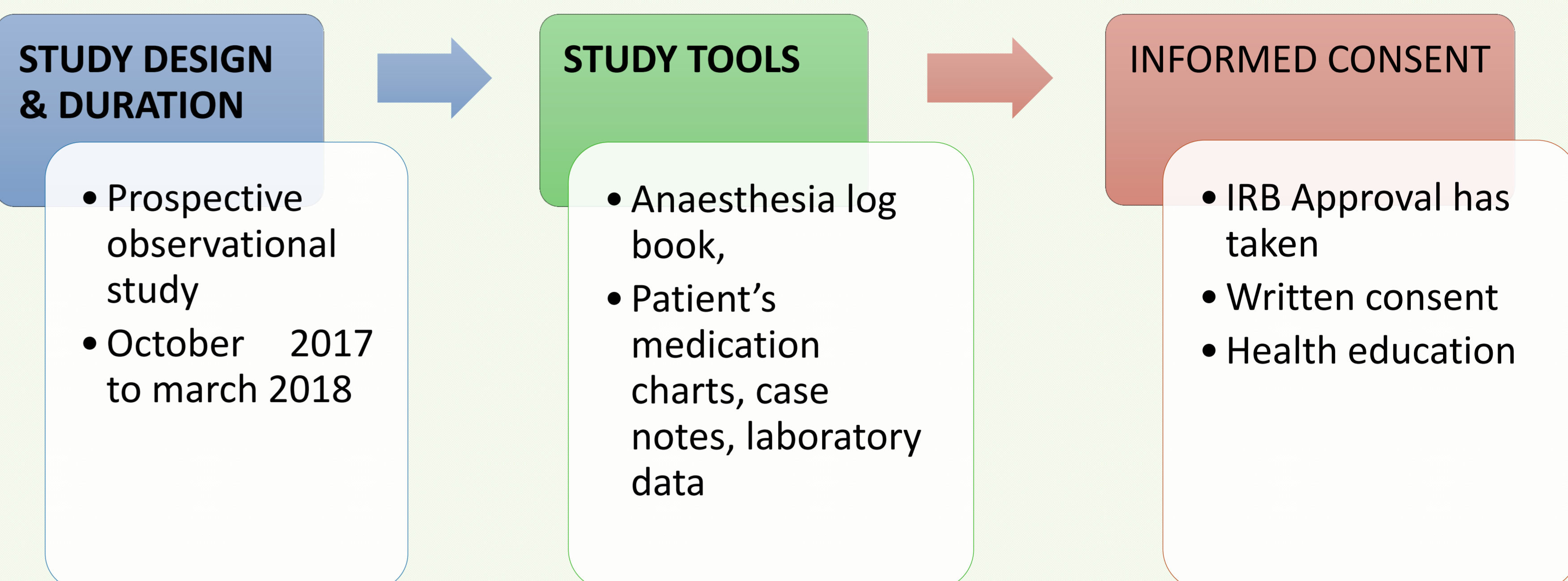
INTRODUCTION

Adverse reactions are identified hazards of pharmacotherapy
 There are various factors which influence adverse drug reactions in the perioperative period like age, gender, poly-pharmacy, Presence of co-morbidities, inter-current disease, BMI etc.
 All these factors must be taken into consideration for surgical management during the perioperative period.

AIM

To assess the risk factors of Adverse Drug Reactions (ADRs) observed in patients admitted to the general surgery wards.

MATERIALS & METHODS



STUDY DESIGN & DURATION

- Prospective observational study
- October 2017 to march 2018

STUDY TOOLS

- Anaesthesia log book,
- Patient's medication charts, case notes, laboratory data

INFORMED CONSENT

- IRB Approval has taken
- Written consent
- Health education

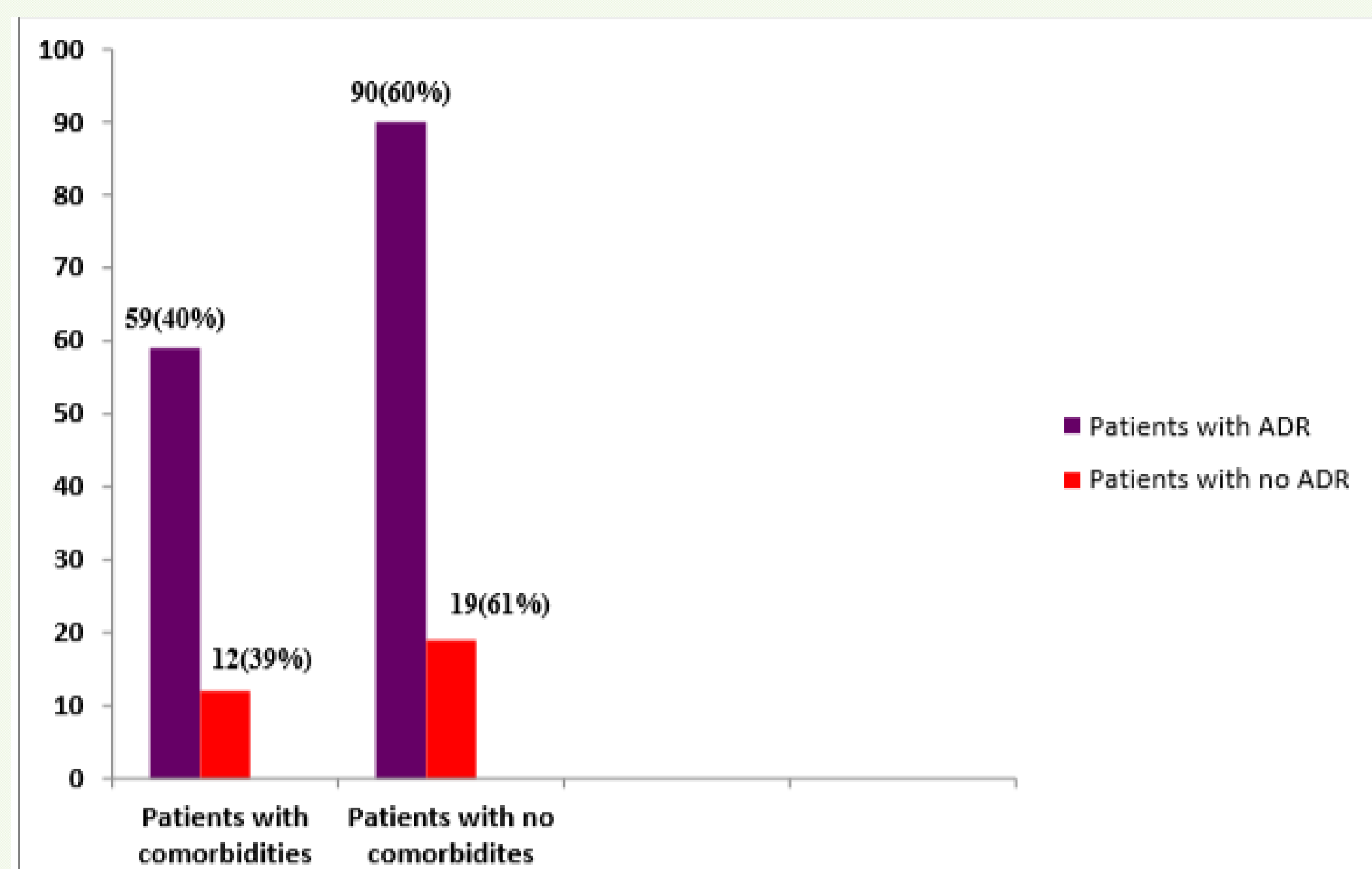
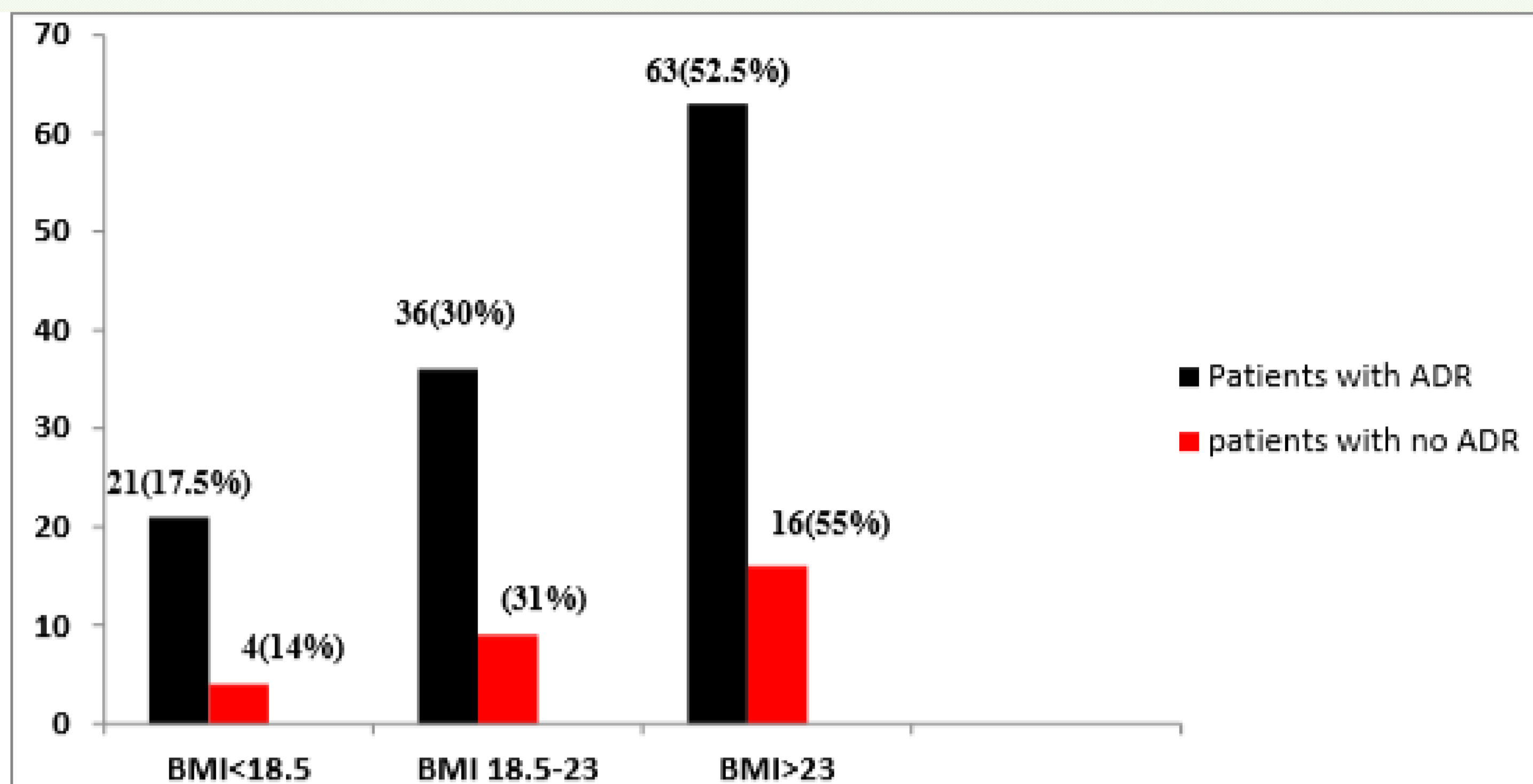
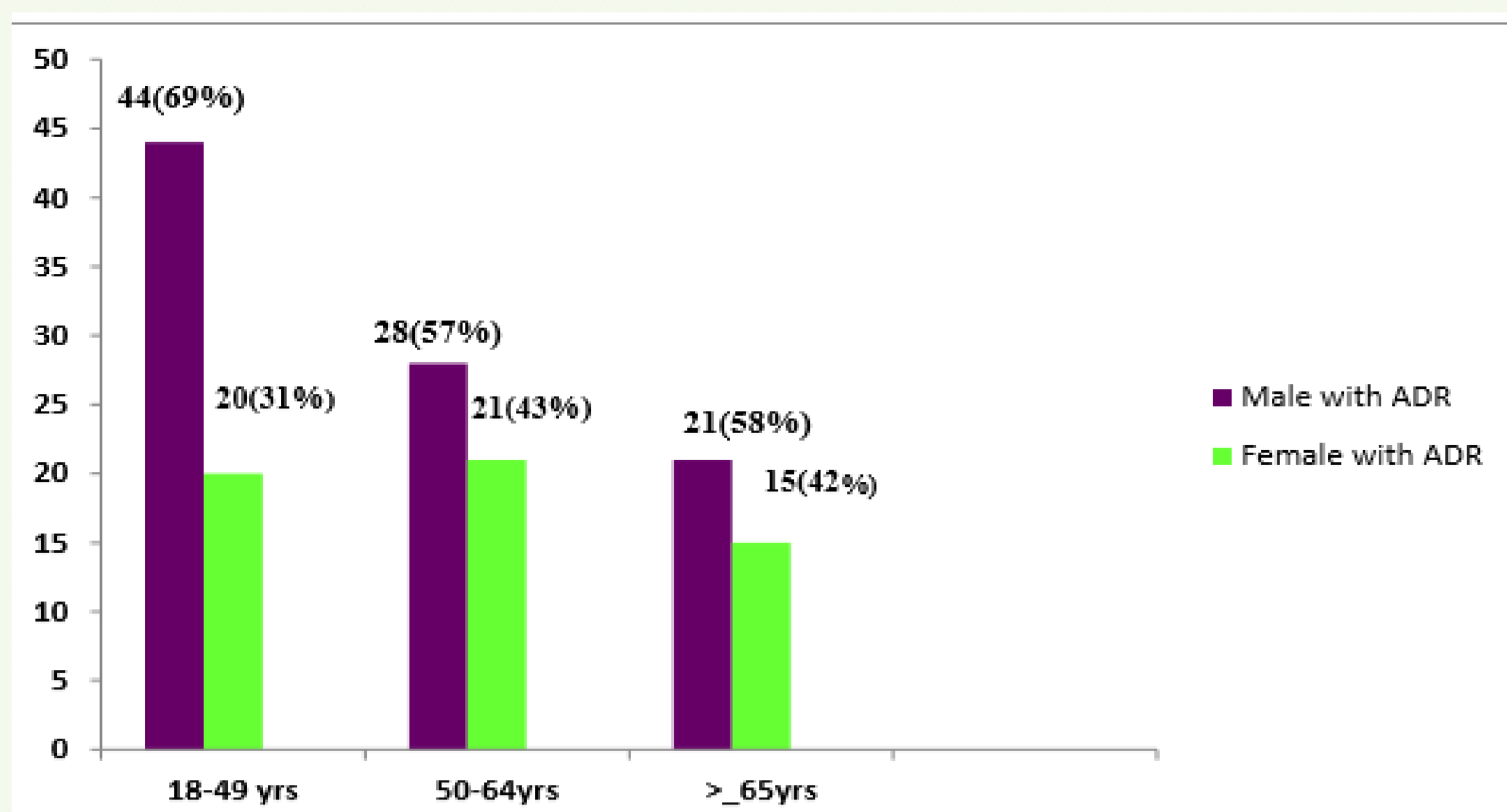
INCLUSION CRITERIA:

Inpatients of either sex aged 18 years and above who were administered with at least one anaesthetic drug

EXCLUSION CRITERIA

Terminally ill & Emergency patients

RESULTS



| Risk factors | Odd's Ratio | Upper limit-lower limit | P-value |
|--------------------------|-------------|-------------------------|---------------|
| Age(50-64years) | 0.66 | 0.22-1.63 | 0.337 |
| Gender(male) | 1.58 | 0.72-3.45 | 0.247 |
| Smoking | 8.60 | 1.31-22.56 | 0.03* |
| ASA≥3 | 2.38 | 1.799-3.401 | 0.005* |
| Amputation | 3.05 | 1.630-5.346 | 0.011* |
| Cancer related surgeries | 2.30 | 1.011-4.594 | 0.049* |

CONCLUSIONS

Risk estimates showed significant association between smoking (Odds ratio [OR] = 8.60, 95% CI 1.31-22.56, p=0.03), ASA physical status ≥ III (OR=2.386, 95% CI 1.799-3.401, p=0.005), amputation (OR=3.058, 95% CI 1.63-5.34, p=0.011), Oncology related surgeries (OR=2.303, 95% CI 1.011- 4.594, p=0.049). The independent risk factors identified lay a great emphasis on the need of individualized drug therapy which will significantly improve the therapeutic outcomes and reduce the economic burden on patients