

EPIDEMIOLOGY AND RISK FACTORS FOR MULTI-DRUG RESISTANT BACTERIAL URINARY TRACT INFECTIONS

AMONG PREGNANT WOMEN IN QATAR

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INTRODUCTION

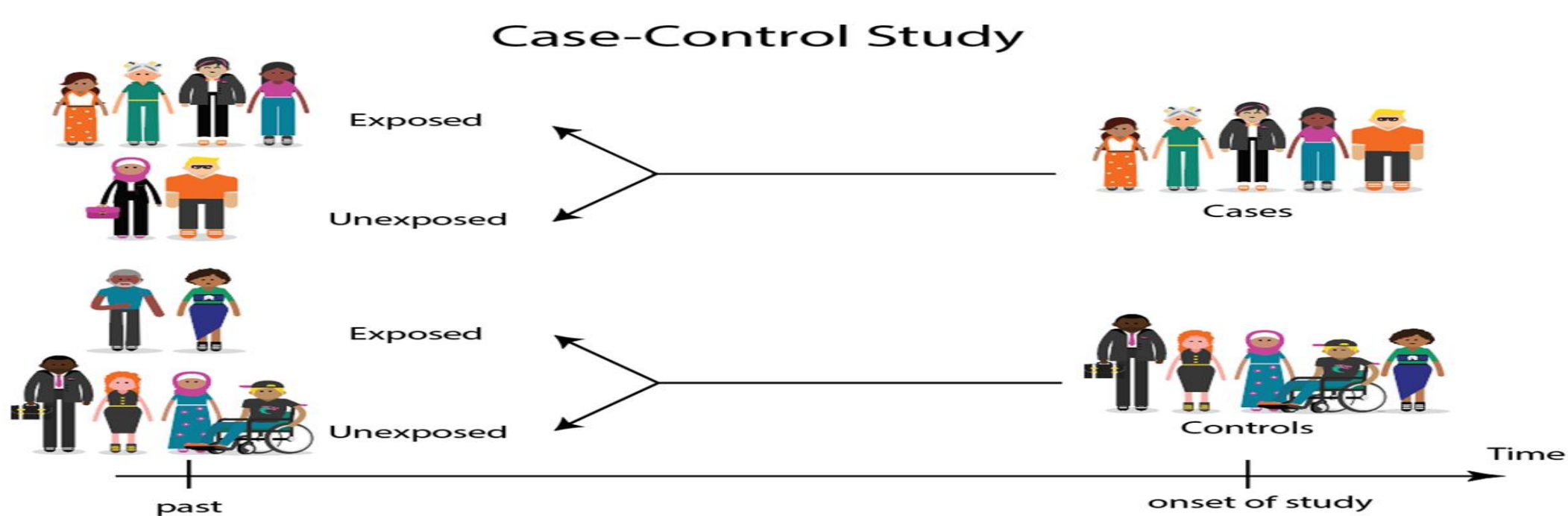
- ✓ Infections of the urinary tract (UTI) are the most prevalent infections during pregnancy and puerperium.
- ✓ The Extended Spectrum beta-lactamase (ESBL) organisms associated with UTIs are on the rise worldwide.
- ✓ The prevalence is reported from as low as 3% in North America to as high as 45% in Africa in a recent systemic review.
- ✓ However, the studies on ESBL associated UTIs in pregnancy are petty.

OBJECTIVE

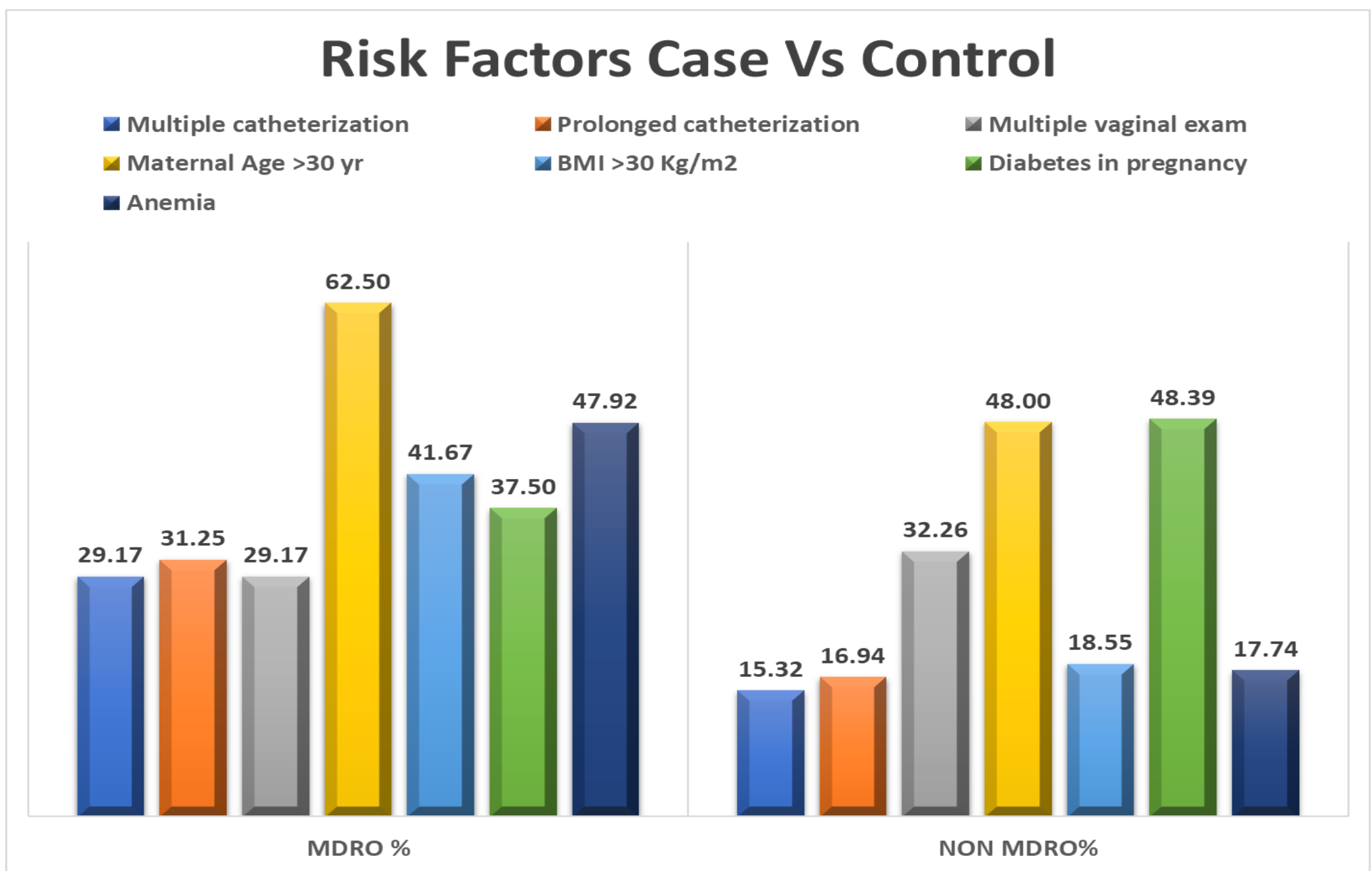
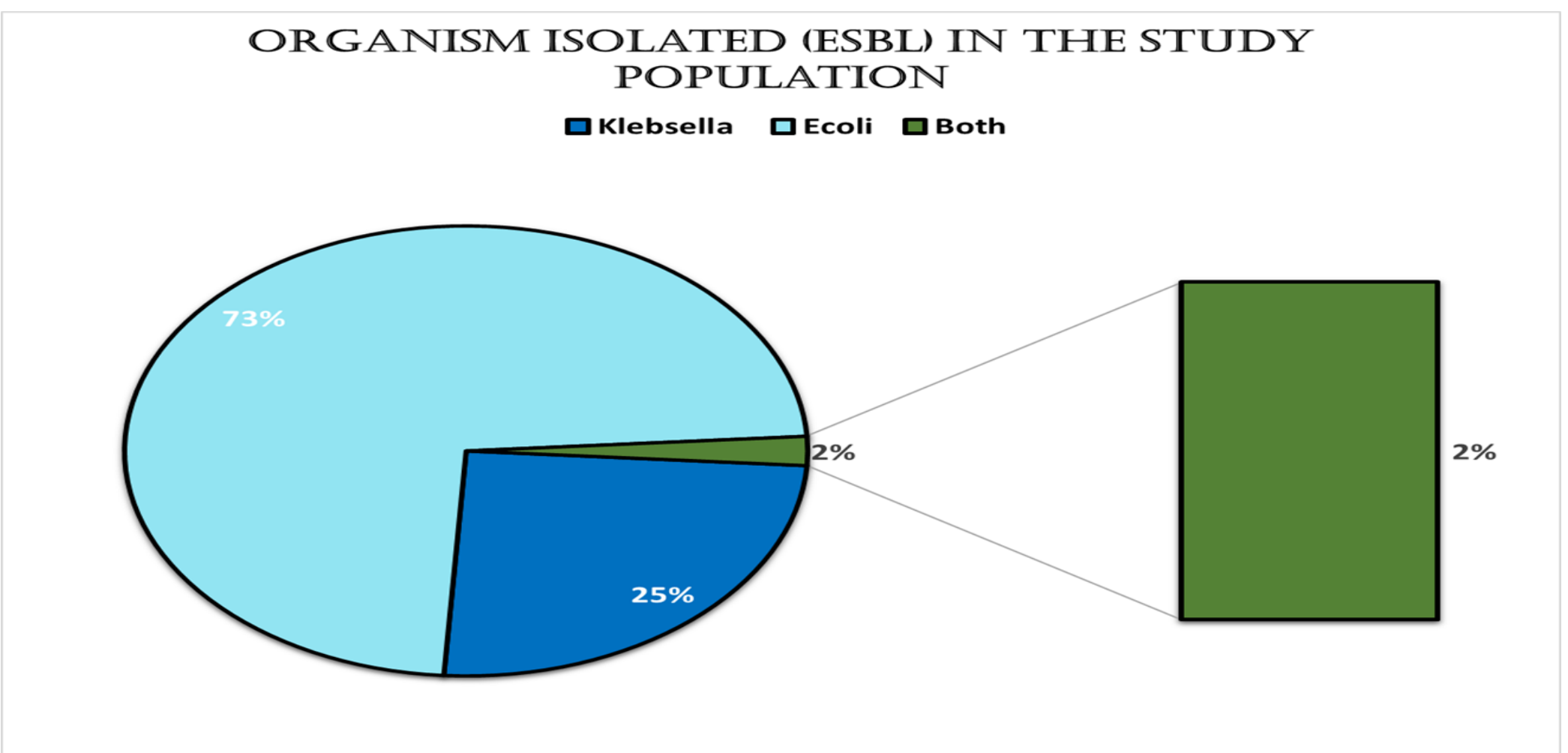
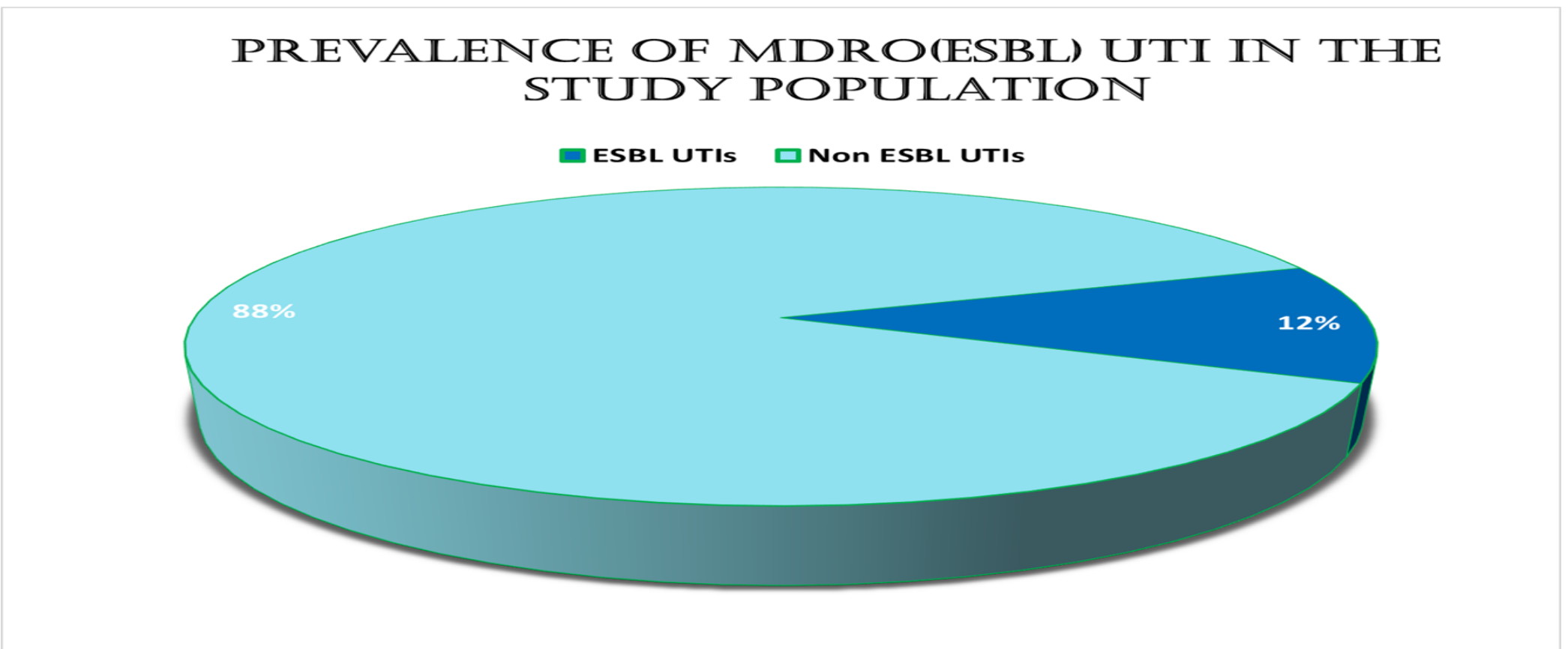
To study the prevalence and risk factors associated with MDRO-UTI in pregnant women.

METHODOLOGY

- ❑ Design: Case control study
- ❑ Methods: A case control study was conducted at a secondary hospital.
- ❑ Women delivered between 2016-2019 were included.
- ❑ All patients with UTI caused by multiple drug resistant organisms were included in the study and control patients were selected with random sampling.
- ❑ Prevalence of urinary tract infections and UTIs caused by multiple drug resistant organisms during pregnancy was assessed.
- ❑ Epidemiological and risk factors were observed in women with UTI caused by MDRO and compared with women with UTI caused by non-MDRO.
- ❑ Odds 'ratio was calculated for statistical analysis.



RESULTS



RESULTS

Risk Factors Case Vs Control

Risk Factor	OR	95% CI	Value of p
Maternal Age >30 years	2.47	1.24 to 4.89	<0.05
Maternal BMI >30 Kg/m2	3.14	1.51 to 6.52	<0.05
Anemia	4.268	2.06 to 8.85	<0.001
Diabetes	0.64	0.32 to 1.27	>0.05
Multiple catheterization	2.28	1.03 to 5.02	<0.05
Prolonged Catheterization	2.23	1.03 to 4.81	<0.05
Multiple vaginal exam	0.86	0.42 to 1.79	>0.05

CONCLUSION

- ✓ High prevalence of MDRO associated UTIs were noted despite complying with the anti-microbial stewardship best practice guidelines in the country.
- ✓ Identifying the risk factors would aid in appropriate management and follow up of these cases to reduce the pregnancy complications.

CONTACT

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