



Concordance of Anticipated Difficult Airway with Difficult Neuraxial Placement in the Obstetric Population: A Prospective Observational Study

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INTRODUCTION

- Incidence of difficult airway in pregnancy has been estimated as high as 1 in 49¹. Risk factors are well identified and routinely assessed.
- Difficulty with neuraxial placement is also not uncommon and risk factors are less well studied^{2,3}.

AIMS

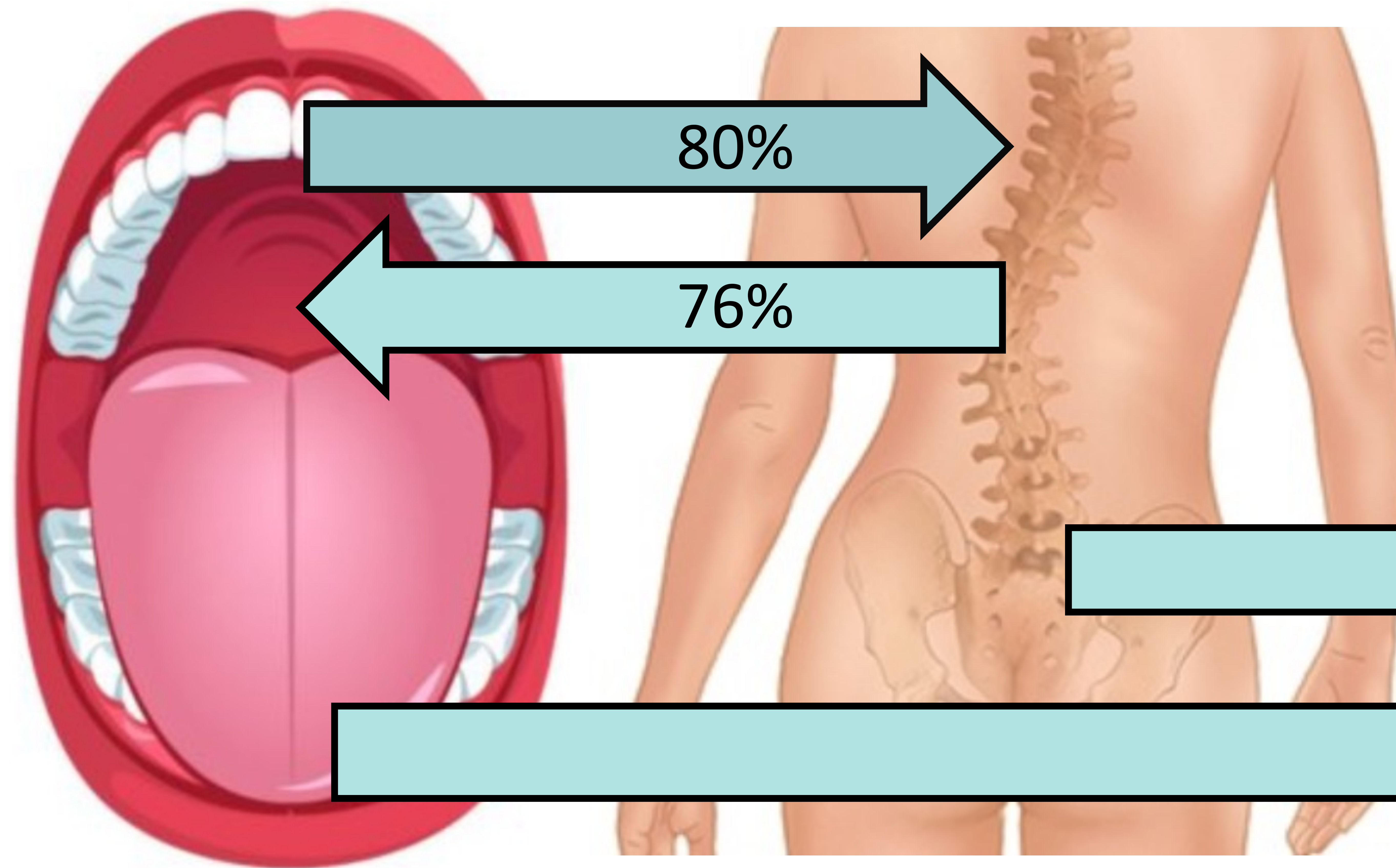
- To determine the concordance of predicted difficulty in airway management with a predicted and actual difficult epidural placement

METHODS

- IRB-approved single center prospective study with data collected for 298 parturients to date.
- Independent data collection by investigator regarding: Difficult airway predictors (18), difficult back predictors (6) and observed actual difficulty with neuraxial assessed.



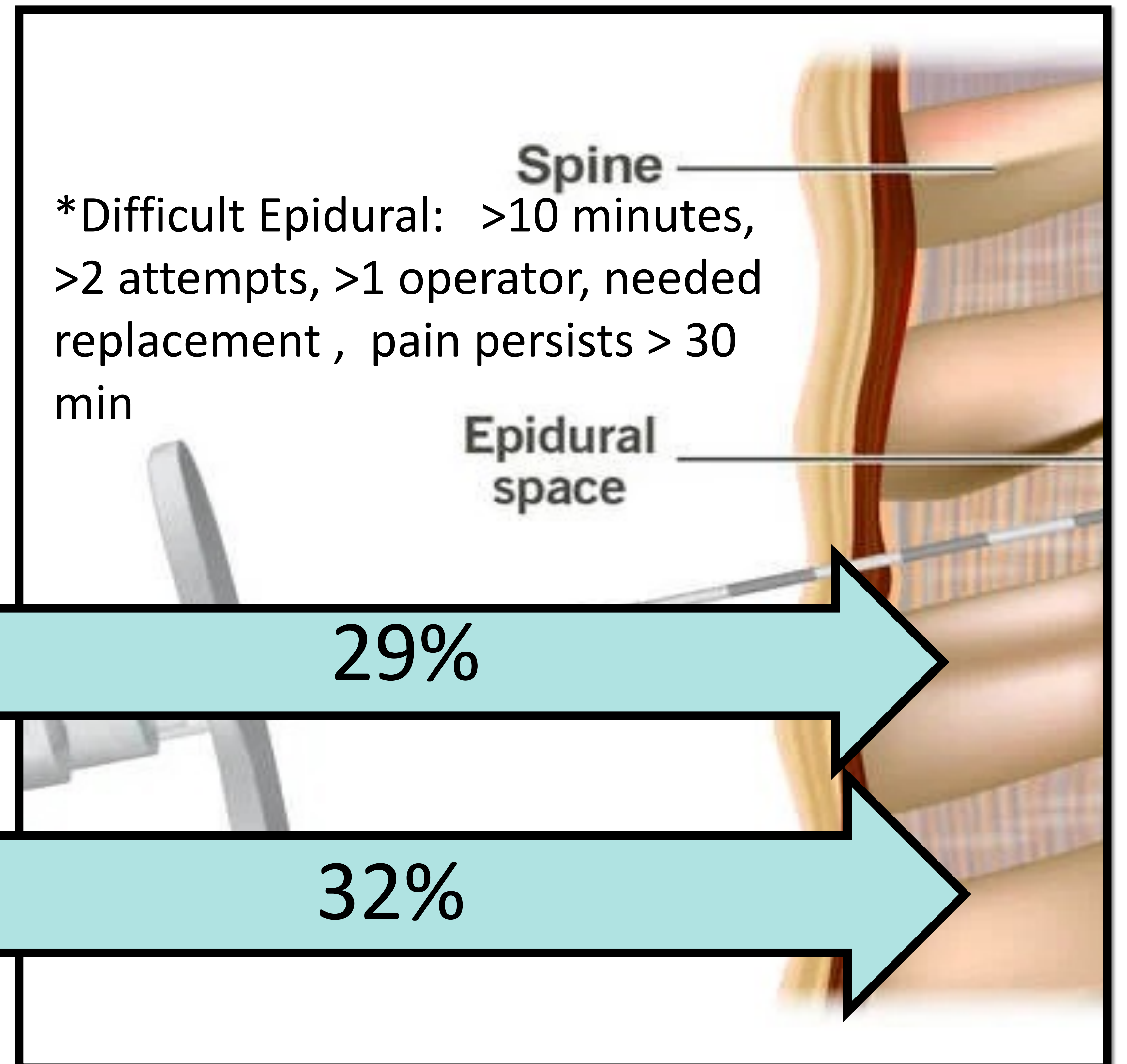
Predicting Difficulty



Predictors of a Difficult Airway

Predictors of a Difficult Back

Actual Difficulty*





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DISCUSSION

- Difficult airway predictors are well correlated to predictors of a difficult epidural.
- An airway examination alone may have value in predicting difficulty in neuraxial placement.
- Obstetric anesthesiologists should be aware that the scenario of encountering a “difficult airway-difficult back” may be more common than expected and should anticipate difficulty with neuraxial placement in patients with predictors of a difficult airway.

References

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2. Hermanides J, Hollmann MW, Stevens MF, Lirk P. Failed epidural: causes and management. *Br J Anaesth*. 2012;109(2):144-154.
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