



Optimising successful intubation in obstetric patients with Videolaryngoscopy

Sean Harbison*¹, Niamh Toner¹, Nicki Alexander², Kate Theodosiou², Julia Critchley²

¹South East Scotland School of Anaesthesia, ²Simpson Centre For Reproductive Health, Royal Infirmary of Edinburgh, NHS Lothian, UK

*sean.harbison@nhs.net



Background	Methods	Results	Discussion								
- Higher incidences of failed intubation and challenging laryngoscopy in obstetric population¹ - Videolaryngoscopy improves 1st pass in all patients² - Difficult airway society and Obstetric Association of Anaesthetists recommend that videolaryngoscopes be readily available in all obstetric Gas NHS Lothian has McGrath MAC VL (MMVL) in all airway trolleys	- Data collected on all Obstetric GAs from January 2023 to September 2024 - Intubation data was recorded by anaesthetists involved in the case Local Clinical Governance team and Caldicott approval was granted	- Total of 548 Obstetric GA cases during study period - Intubation data available for 473/548 (86.3%) cases - MMVL used in 440/473 cases All failed intubations had uneventful surgeries using an iGel <table> <tr> <th>First pass</th><th>Second Pass</th><th>Third pass</th><th>Failed</th></tr> <tr> <td>456 (96.2%)</td><td>13 (3%)</td><td>1 (0.2%)</td><td>3 (0.6%)</td></tr> </table>	First pass	Second Pass	Third pass	Failed	456 (96.2%)	13 (3%)	1 (0.2%)	3 (0.6%)	- Rates of challenging intubation are between 1.6-16.3% in obstetric populations¹ Our centre continues to have favourable data with 4/473 (0.8%) difficult intubations over the audit timeframe - Continued use of best practice with MMVL use as first line has helped to maintain a high rate of successful first pass intubation
First pass	Second Pass	Third pass	Failed								
456 (96.2%)	13 (3%)	1 (0.2%)	3 (0.6%)								

1. Kinsella S, Winton A, Mushambi M, et al. Failed Tracheal Intubation During Obstetric General Anaesthesia: A Literature Review. International Journal of Obstetric Anaesthesia. 2015; 24(4):356-374.
2. Hansel J, Rogers AM, Lewis SR, Cook TM, Smith AF. Videolaryngoscopy versus direct laryngoscopy for adults undergoing tracheal intubation. Cochrane Database Syst Rev. 2022 Apr 4;4(4):CD011136. doi: 10.1002/14651858.CD011136.pub3. PMID: 35373840; PMCID: PMC8978307.

