MS#8

***A comparative study of Endotracheal Intubation by Airtraq, Glidescope ranger and Direct Laryngoscopy in a Closed Space Environment*.**

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A randomized crossover study was employed to assess the 3 methods of endotracheal intubation on a mannequin secured to the lowest stanchion position of a **UH-60 Blackhawk helicopter** airframe model.

Airtraq (mean = 2.885) was least difficult when compared to GSR (mean = 3.615, p = 0.252) and DL (mean = 5.145, p = 0.0041).

Intubation times were also improved for the ATQ compared to DL (AT = 23.810s vs. DL = 39.145s, P =< 0.0001) and GSR (GSR = 39.295s, p = <0.0001).

Both ATQ and GSR provided significant improvement to CLV as rated by study subjects (p = 0.0006 and p = 0.0047, respectively).

Conclusion: The GlideScope Ranger and Airtraq devices enhanced CLV in the closed space setting, and the Airtraq reduced perceived degree of difficulty and reduced time to intubation.