EVOLUTION OF INTUBATION GEOMETRY
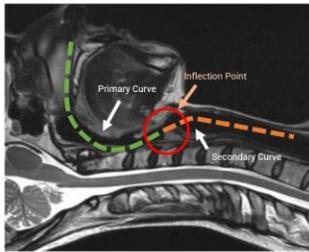

Runnels Steerable Introducer™
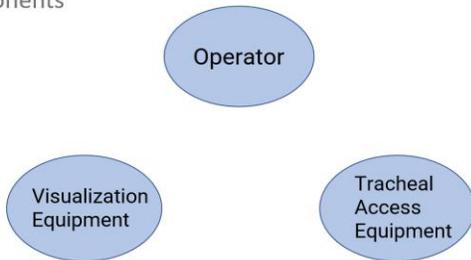
SOLVING GEOMETRY PROBLEMS

Geometry Problem Key Points

- 2 Curves
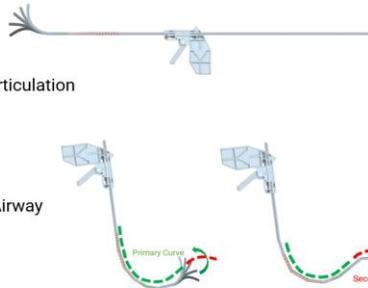- Opposite directions
- Inflection point at glottis
- Serpentine geometry

Intubation as a System: 3 Components

- Operator
- Visualization Equipment
- Tracheal Access Equipment

Dynamic Tracheal Access

- Dynamic Tip
  - Anterior and Posterior Articulation
  - Controlled by a Handle

- Flexible Shaft
  - Conforms to Curves of Airway

	Early 1940s DL Era Begins DL	**Early 2000s VL Era Begins** VL	**Late 2000s Combined Technique** VL + Dynamic Introducers (FOB)
Predominant geometric theory	Alignment of axis — **Linear geometry**	Alignment of axis — **Linear geometry**	Alignment of axis 2-Curve theory — **Linear / Serpentine geometry**
Visualization geometry	**Linear geometry**	**Serpentine geometry**	**Serpentine geometry**
Tracheal access geometry	**Linear geometry**	**Serpentine geometry**	**Serpentine geometry**
Tracheal access Equipment	Bougies and malleable styles **Static tracheal access**	Rigid precurved stylets -Solves priamry curve only **Static tracheal access**	Dynamic introducers -Solves primary curve, and secondary curve **Dynamic tracheal access**
Predominant cause of attempt failure	**Visualization Failure**	**Tracheal Access Failure**	**Superior results**

THROUGH THE CORDS
Next-Generation Airway Tools

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