Advances in Paediatric ENT
How do we advance in surgery?

• Great minds?

• Luck?

• Years of patient research?
R-T-W: Sailing advances since Magellan

- Skill in sailing?
- Innovation
- Equipment
  - carbon fibre/Kevlar
- General health
  - scurvy
- Navigation
R-T-W: Sailing advances since Magellan
Advances in Paediatric ENT

• Surgical practice -
  – Old ideas revisited
    • Surgical excision of subglottic haemangioma
    • cricotracheal resection
Advances in Paediatric ENT

- Equipment
  - Endoscopy
Advances in Paediatric ENT

- Equipment
  - Endoscopy
  - Imaging
Advances in Paediatric ENT

- **Equipment**
  - Endoscopy
  - Imaging
  - LASER
Advances in Paediatric ENT

- **Drugs**
  - **Mitomycin** *(antineoplastic agent prevents fibrin activation)*
  - **Cidofovir** *(antiviral)*
Advances in Paediatric ENT

• **Support services**
  - Anaesthesis
  - ITU
Paediatric ENT

- Laryngology
- Otology
- Head and neck
- Rhinology
Laryngology

• Stenosis surgery
  – Prevention
  – Cricotracheal resection
  – Tracheal homografts
  – Tracheal stents/balloon dilatation
Preventing subglottic stenosis

- Progression without stenting effect of ET
Preventing subglottic...

- Laryngeal Rest
Laryngology

- Laryngeal Stenosis
  - Prevention
  - Cricotracheal resection
Laryngology

• Tracheal stenosis
  – Prevention
  – Cricotracheal resection
  – Tracheal homografts
Laryngology

• Tracheal stenosis
  – Prevention
  – Cricotracheal resection
  – Tracheal homografts
  – Tracheal stents/balloon dilatation
Laryngology

- Tracheal stenosis
  - Prevention
  - Cricotracheal resection
  - Tracheal homografts
  - Tracheal stents/balloon dilatation
Laryngology

- Haemangioma
  - Injection
  - Resection
Laryngology

- Vocal cord palsy
  - early cordotomy?
Laryngology

- Papillomatosis
  - Microdebrider
  - Intralesional cidofovir
  - KTP laser
Rhinology

- Adenoidectomy
- Choanal atresia
  - KTP
  - Mitomycin
  - navigation systems
Otology

- Cochlear implant
  - age
  - incision
  - electrode
Otology

• Microtia
  – osseo integration
  – rib reconstruction
The future

• Continued expansion of paediatric ENT as a specialty

• further advance thanks to
  – equipment
  – drugs
  – genetic engineering
  – surgical practice