TENNENT INSTITUTE of OPHTHALMOLOGY

Vitreous Loss Fire Drill

Ophthalmic simulation improves trainee surgical Competence and Confidence with posterior capsule rupture scenarios

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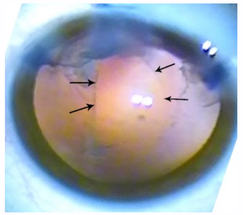
Safe Surgeons

- Simulation training results in safer surgery outcomes with reduced rates of PCR/VL
- Repetitive simulation practice = **confidence & competence in theatre**

Aims

Evaluate impact of simulation training on

- Anterior vitrectomy
- 3-Piece IOL
- Corneal wound suturing



Method

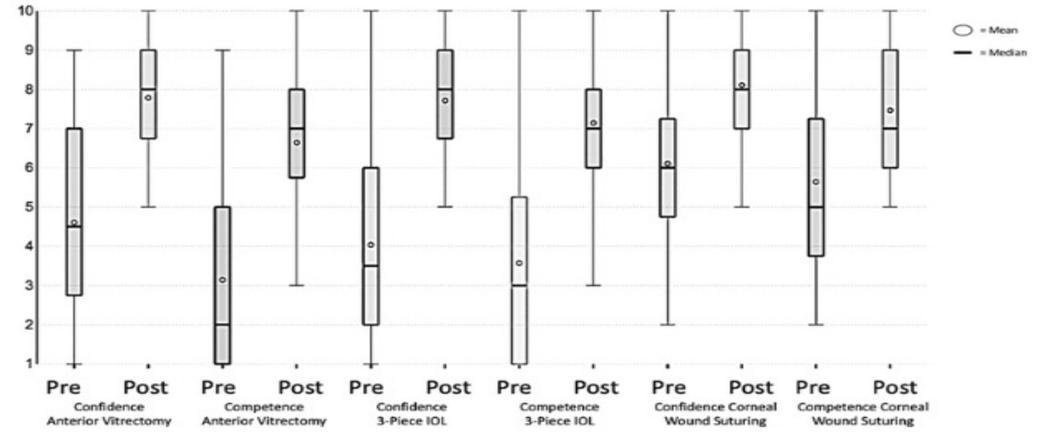
- Pre-course knowledge transfer video
- 4 Practical Simulation Stations
- Pre & Post Course self reporter questionnaire
  - Likert scale 1-10
  - Junior Registrar ST1-3 Senior ST4+
  - Wilcoxon signed ranks test analysis



Results

- 28 Trainees participated
  - 14 Juniors & Seniors
- All trainees reported low confidence/competence (<6) in all pre-course questions as a group
- Greater confidence/competence in cataract corneal wound suturing than other skills
- All Trainees showed increased confidence/competence in all skills
  - Senior trainees benefited more from anterior vitrectomy drills

All trainee confidence & competence Scores



Discussion

- Fire drill significantly improves trainee confidence & competence
- Reduces risk & concern
- **Courses should be part of mandatory training for**
  - **PCR/VL**
  - **Other intraoperative complications**
  - **For trainees & trainers**

