

Audit in Ophthalmology
FIPO Meeting
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“Quality assurance remains an important issue in the HES”

- Healthcare Commission
 - being the latest manifestation of this NHS priority
 - During 1990’s provision for nat audits was through prof bodies
 - Royal College of Ophthalmologists developed a broad portfolio encompassing many common ophthalmological conditions
- Following formation of NICE
 - national audit budgets were withdrawn and used to develop six (and later a seventh) National Collaborating Centres for clinical Guideline Development
 - April 2001 the National Collaborating Centre for Acute Care
 - Royal College of Surgeons in London
 - Royal College of Ophthalmologists is one of four key members

Standard Surgical Audit Criteria

- Mortality
- Length of Stay
- Wound infection rates

These do not apply in Ophthalmology

Ophthalmological Audit

- Nice guidelines
 - none published on cataract
 - although there are HTA's on PDT
- Guidance on
 - Mac Trans/LASIK
- Need to use common “Eye” data
 - Visual acuity
 - Refractive outcomes (predicted v actual)
 - Day case rates
 - Anaesthesia
 - Endophthalmitis rare occurrence ... difficult

Royal College Ophthalmologists

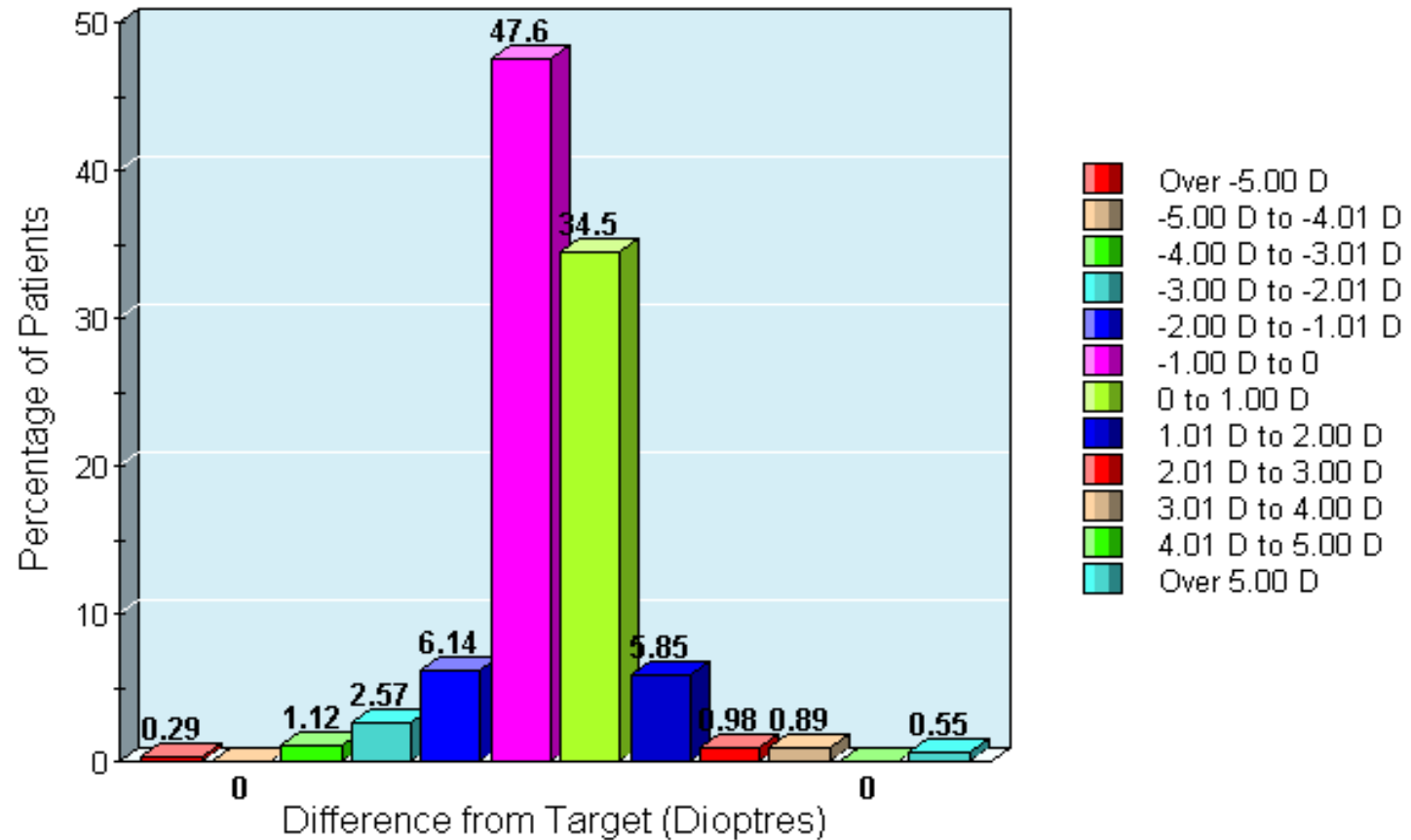
- Cataract Audit 1997
 - Survey based 100 Hospitals 18,000 patients
 - VA, age, co-morbidity, grade sx
- Results
 - 85% (92) 6/12 or better (no co-morbidity)
 - 65% (77) (with co morbidity)
- Risk indicators
 - Age, other eye disease, diabetes, stroke
 - Type of procedure and grade of surgeon

WEH (Oct '02 Sept'04) vs RCO (1997)

- VA of 6/12 or better in 93% (92%)
- Refraction
 - >80% +/- 1D of target refraction (65.7% within 0.5 D)
- Total incidence of complications 8.7% (30.8%)
- Major complications 2.4% (7.5%)
- Vitreous loss 1.1% (4.4%)
- Endophthalmitis 0.1% (0.1%)
 - Complications rates were lowest for consultants (less than 1%)
 - User satisfaction was high

WEH

Deviation of Post-op Refraction from Target Refraction



Other Royal College of Ophthalmology Audits

- National audit of Trabeculectomy I-III (99-02)
- Diabetic Retinopathy Laser treatment Audit I-III (98-99)
- Diabetic Retinopathy Screening (99)
- Scottish Ocular Trauma Study (96,99)
- National audit of Retinal Detachment Surgery I,II (02)

Royal College of Ophthalmologists Guidelines

<http://www.rcophth.ac.uk/members/guidelines.html>

- Cataract Surgery Guidelines 2004
- Guidance on the Retrieval of Human Ocular Tissue used in Tx & Research 2004
- Ocular Toxicity & Hydroxychloroquine: Guidelines for Screening 2004
- Standards for Laser Refractive Surgery December 2004
- Retinal Vein Occlusion March 2004
- A National Research Strategy for Ophthalmology March 2002
- Guidelines for Children's Eye Care
- Local Anaesthesia for Intraocular Surgery Published jointly with Royal College of Anaesthetists July 2001
- Guidelines for Photodynamic Therapy 2001
- Procedures for the Ophthalmologist who Suspects Child Abuse 2000
- The Management of Age Related Macular Degeneration 2000
- Guidelines for the Management of Squint and Amblyopia 2000
- The Ocular Side-effects of Vigabatrin - information and guidelines for screening 2000
- Excimer Laser PRK - Best Clinical Practice Guidelines 1998
- Guidelines for Diabetic Retinopathy 1997
- Shared Care Glaucoma 1996
- Retinopathy of Prematurity - Guidelines for Screening & Treatment (jointly with the British Association of Perinatal Medicine) 1995

NICE Guidance of direct relevance to Ophthalmologists

<http://www.nice.org.uk/page.aspx?o=dg.eye>

- *Published NICE Interventional Procedures*
 - Scleral expansion surgery for presbyopia
 - Transpupillary thermotherapy for age-related macular degeneration
 - Macular translocation for age-related macular degeneration
 - Radiotherapy for age-related macular degeneration
 - Arteriovenous crossing sheathotomy for branch retinal vein occlusion
 - Insertion of hydrogel keratoprosthesis
 - Laser in situ keratomileusis (LASIK)
 - Interventional procedures in development
 - Retrobulbar irradiation for thyroid eye disease
 - Endoscopic DCR Surgery
 - Photorefractive keratectomy (PRK) for the treatment of refractive errors
 - Laser epithelial keratomileusis (LASEK)

Local Audit by Clinicians

- Standards for audit should be based on the best available evidence
 - Published Royal College of Ophthalmologists National Audits and Clinical Guideline statements frequently provide a good basis for defining standards for local audit
- Tools available
 - National Cataract Data Set
 - Medisoft and others

Sources of Information

- www.rcophth.ac.uk
- www.cochrane.org
- www.nice.org.uk
- www.sign.ac.uk