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Quiz on diagnostics eye algorithms

There are many excellent ophthalmology textbooks which give the novice the appropriate knowledge, however very few indicate how to apply it. For this reason I have developed along with colleagues a series of diagnostic algorithms (Edinburgh Diagnostic Algorithms) for the three most commonly encountered scenarios: red eye (s), visual loss and diplopia. I've included two others; anisocoria and epiphora. These diagnostic algorithms allow the inexperienced clinician (in ophthalmological terms) to start toutilise and build upon their existing knowledge by consulting a framework which represents the thought processes of their more experienced colleagues. Algorithms are, therefore, simply a user-friendly version of these diagnostic and/or treatment thought processes. Algorithms are always a compromise between having enough detail to cover the most commonly encountered diagnoses while remaining simple enough to use. They rely upon the clinician being able to clarify the history and elicit the clinical signs which act as signposts on the road to diagnostic nirvana.

I'll present the results of 3 published studies looking at the accuracy of the Edinburgh Diagnostic Algorithms I'm hopeful that during the course of my talk I'll convince you of their benefits whilst having a bit of fun!

The accuracy of the Edinburgh Red Eye diagnostic algorithm. H Timlin, L Butler & M Wright Eye (Lond). 2015 May;29(5):619-24.

The accuracy of the Edinburgh Visual Loss diagnostic algorithm. C Goudie, A Khan, C Lowe and M Wright. Eye (Lond). 2015 Nov;29(11):1483-8.

The accuracy of the Edinburgh Diplopia diagnostic algorithm. L Butler, T Yap and M Wright Eye (Lond). 2016 Jun;30(6):812-6

Narrated algorithm talk: https://youtu.be/9MykiR5imtw

Biography

Mark Wright perform over 300 small incision phaco-emulsification (modern small incision) cataract surgeries annually with over 99% as a day case. His cataract outcomes are as follows; over the past three years (1,173 consecutive cases), 96% of patients saw 6/12 or better postoperatively (comparative figure is 91% from the national cataract audit). Mark's capsular rupture rate, the most commonly sited measurement of surgical dexterity was 0.6% (1.9% national cataract audit). He co-leads the oculoplastic (eyelid and socket) service for Lothian. Audit of surgical outcomes forms the backbone of revalidation, He was the inaugural audit secretary for the British Oculoplastic Surgical Society. He have a keen interest in teaching and has, for the past 10 years, run the undergraduate ophthalmology course at Edinburgh University. Consultant Ophthalmologist, Lothian University Hospitals NHS Trust, Princess Alexandra Eye Pavilion, Edinburgh Consultant Ophthalmologist, West Lothian NHS Trust, St John's Hospital, Livingston. Honorary Part-time Senior Lecturer, Edinburgh University.

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