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| **Type of abstract:** | Research |
| **Title of presentation:** | Adherence, underperformed and overperformed test rates – Novel metrics for reporting compliance to clinical guidelines |
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| **Short bio:** | Having qualified in 2004, Farkhandah Raqib is a practising hospital and community specialist Optometrist with extensive experience in planning and delivering community-based patient pathways. An independent prescriber, she has specialist interests in glaucoma, medical retina and low vision. She is also the chair of the Derbyshire Local Optical Committee (LOC). Aside from clinical practice, LOC activity and research, Farkhandah enjoys Buddhist meditation and horse riding. |
| **Key words:** | Guideline compliance, independent prescribing optometrists, evidence-based practice |
| **Abstract:** | **Background:** Compliance to guidelines ensures evidence-based care, critical to optimal patient outcomes. There is currently no common and comprehensive method of reporting compliance to guidelines across multiple ocular conditions. Moreover, IP optometrist activity has yet to be evaluated in this manner. This paper presents novel metrics to promote the standardised reporting of compliance to clinical guidelines.  **Methods:** Three novel metrics were developed; adherence (A), overperformed test rate (OP), and underperformed test rate (UP). These metrics were used to evaluate 822 first patient appointments collected over the course of a year (Nov 2018 - Oct 2019) by four specialist IP Optometrists (Acute Primary Care Ophthalmology Service, Kent). Compliance across 76 quality indicators (recommended tests) covering history and symptoms, clinical signs, management, and prescribing decisions was measured against the College of Optometrists’ Clinical Management Guidelines.  **Results:** The metrics (mean and range) are as follows. History and symptoms, A: 78.9% (range: 48–98%), OP: 6.9% (range: 0-13.7%) and UP: 14.2% (range: 1.2-4.5%). Clinical signs (tests undertaken), A: 93.8% (61-99%), OP: 2.8% (range: 0-14%) and UP: 3.4% (range: 0-28%). Management decisions, A: 69.6% (range: 61-100%), OP: 3.1% (0-12%) and UP 27.3% (range: 0-57%). Prescribing decisions, A: 92.1% (range: 61-100%), MOP: 0.9% (range: 0-5%) and UP: 7.1% (range: 0-35%).  **Conclusion:** The three novel metrics provide a comprehensive method of reporting compliance to guidelines. IP optometrist activity appears largely compliant against CMG recommendations across 48 anterior ocular conditions. Further work is being undertaken to explore the relationship between clinical observations and decisions made by IP optometrists. |
| **Three references:** | 1. Ho KC, Stapleton F, Wiles L, Hibbert P, Alkhawajah S, White A, et al. Systematic review of the appropriateness of eye care delivery in eye care practice. BMC Health Serv Res. 2019 Sep 6;19(1).  2. College of Optometrists. Clinical Management Guidelines [internet]. 2020; Available at: <https://www.college-optometrists.org/guidance/clinical-management-guidelines.html>  4. Baker H, Ratnarajan G, Harper R. A., Edgar D. F., Lawrenson, J. G. Effectiveness of UK optometric enhanced eye care services: a realist review of the literature. Ophthalmic Physiol Opt. 2016 Sep;36(5):545-57  3. The Royal College of Ophthalmologists. Reopening and redeveloping ophthalmology services during Covid recovery-Interim guidance [internet]. 2020; Available at: <https://www.rcophth.ac.uk/wp-content/uploads/2020/04/Reopening-and-redeveloping-ophthalmology-services-during-Covid-recovery-Interim-guidance-1.pdf> |
| **Presentation preference:** | Preference to present.  Option: Talk |
| **Funding & commercial relationships:** | None |

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