Online Supplement: Major opportunities and considerations for core outcome set (COS) development for ophthalmology

Types of Opportunities/Considerations	Opportunities/Considerations
Major opportunities that COS development presents	 Engagement of all stakeholders (patients, ophthalmologists, optometrists, researchers, funders, regulators, industry partners, journal editors, guideline developers) to participate in COS development Opportunities for collaboration, exchange of ideas, and colearning Streamline the design of pivotal RCTs to bring new products to market Opportunities for funders to participate in COS development, thereby influencing what outcomes are measured in the research they fund
Methodologic considerations	 Consider the five elements of each outcome: domain, specific measurement, specific metric, method of aggregation, and time-points Consider what each outcome intends to measure: improvement in health, disease progression, or avoidance of disease progression
Practical considerations	 Disease severity and disease subtypes Preferred measurement instruments and technologies could change over time Feasibility of measuring each outcome in busy clinics COSs should include patient-important outcomes
Disease-specific considerations	·
AMD	Urgent need for COS for geographic AMD
Refractive error in children	 Quality differs among PRO instruments for refractive error, specifically in terms of rigor of design and analysis. Age of the patient can add challenges to assessing outcomes.
Dry eye	 Only a limited correlation between symptoms and clinical signs COS developers will need to consider whether separate COSs are needed for each underlying disease or for groups of diseases