OPHTHALMOLOGY\_Team4\_Report.docx

**RESEARCH DOCUMENTATION**

*OPHTHALMOLOGY (EYE AND VISION)*

**TEAM 4 (Ophthalmology)** sourced data from the following:

* **Sources used**
  + Mayo Clinic
  + Cleveland Clinic
  + PubMed
  + NCVI
  + National Eye Institute
  + National Institute of Health (NIH)
  + Dove Med
  + Healthline

**Methodology**

We searched clinical guidelines using keywords such as *"eye disease management, causes, epidemiology"*, “*Pilocarpine, Pupil Disorders, Vision Disorders*” *"CHD treatment 2020+"*, and *"list of eye and visual diseases from a-z"*. Filters were applied for:

* Publication dates from 2019 to 2025
* English language
* Human studies
* Pediatric and adolescent populations

We prioritized systematic reviews, meta-analyses, and guidelines.

**Challenges Faced**:

* Limited recent data on rare eye diseases and visual conditions(e.g., Adie’s pupil)
* Some regional treatment guidelines (e.g., Sub-Saharan Africa) lacked detailed data
* Variability in classification systems across studies (e.g., cyanotic vs. acyanotic grouping)

**Date Accessed**:  
 May 16th – 25th, 2025

**Description of Contents**:  
 Collected documents included:

* AHA guidelines on eye and visual diseases (2023)
* WHO statistical updates on pediatric eye disease ratio
* Meta-analyses on surgical outcomes and long-term prognosis
* Ophthalmology related diseases

**File Format and Size**:

* PDF (guidelines):  MB
* Word notes/summaries: 9.8MB

### **2. Disease List & Individual Contributions**

**Specialty**: Ophthalmology

| **Diseases/Conditions** | **Team Member Assigned** |
| --- | --- |
| Achromatopsia, Adie’s pupil, | SHARON-ROSE EL |
| Macular Degeneration (AMD), |  |
| Albinism, Albinism, Amblyopia |  |
| Alzheimer’s disease/dementia of the eye, |  |
| Aniridia,Anisocoria, Astigmatism  Anophthalmia and microphthalmia,  Behcet disease, Bell’s palsy, Blepharitis  Best disease, Birdshot chorioretinopathy, Blocked tear ducts, Cataract, Central serous retinopathy, Charles Bonnet Syndrome, Chalazion, Choiroderemia, Coats disease, Coloboma, Color blindness, Corneal disease and dystrophies (Corneal ulcer), Conjunctivitis, Cytomegalovirus (CMV), retinitis, Diabetic retinopathy, Dry eye syndrome, Duane syndrome, Ectropion, Entropion, Excessive tearing, Endophthalmitis, Eye melanoma, Floaters, Flashes, Fuch’s dystrophy, Glaucoma, Hemianopia, Herpes simplex infection (Ocular), Horner syndrome, Hordeolum, Keratitis, Keratoconus, Low vision, Leber congenital amaurosis, Leber hereditary optic neuropathy, Macular degeneration, Macular telangiectasia, Meesmann corneal dystrophy, Metabolic and toxic retinopathies, Myopia, Mydriasis, Nasolacrimal duct obstruction, Nystagmus, Ocular herpes, Ocular mucous membrane pemphigoid, Ocular tumors, Optic atrophy, Orbital fractures, Overactive bladder, Papilledema, Pelvic inflammatory disease, Proptosis, Prostatitis, Proliferative vitreoretinopathy, Ptosis, Pterygium, Refractive errors, Retinal detachment, Retinitis pigmentosa, Retinopathy of prematurity (ROP), Rious retinal vascular occlusions, Scleritis and Episcleritis, Stargardt disease, Stye (Hordeolum), Strabismus, Thyroid eye disease, Trachoma, Uveal melanoma, Uveitis, Vitreous hemorrhage, Vitreomacular traction syndrome. |  |

### **3. Submission Details**

* **Deadline**: Monday, May 26, 2025