Sightsavers Initiatives
Addressing Diabetic Retinopathy
**Diabetes: global public health concern**

**World**
- **371 M** people living with diabetes

**North America and Caribbean**
- **38 M** people
- **10.5% prevalence**
- **29.2% undiagnosed**
- 1 in 10 adults in this region has diabetes
- 1 in 9 adults in this region has diabetes

**Middle East and North Africa**
- **34 M** people
- **52.9% undiagnosed**
- More than half of people with diabetes in this region don’t know they have it

**Europe**
- **55 M** people
- **38.4% undiagnosed**
- 1 out of every 3 dollars spent on diabetes healthcare was spent in this region
- 21.2 million people in this region have diabetes and don’t know it

**Western Pacific**
- **70 M** people
- **51.1% undiagnosed**
- 1 in 3 adults with diabetes lives in this region
- 6 of the top 10 countries for diabetes prevalence are Pacific Islands

**South and Central America**
- **26 M** people
- **9.2% prevalence**
- **45.5% undiagnosed**
- Only 5% of all healthcare dollars for diabetes were spent in this region
- 1 in 11 adults in this region has diabetes

**Africa**
- **15 M** people
- **4.3% prevalence**
- **81.2% undiagnosed**
- Over the next 20 years, the number of people with diabetes in the region will almost double
- This region has the highest mortality rate due to diabetes

**South-East Asia**
- **132 M** people
- **8.0% prevalence**
- **57.9% undiagnosed**
- 1 in 5 of all undiagnosed cases of diabetes is in this region
- 1 in 4 deaths due to diabetes occurred in this region

*All estimates are presented as comparative rates*
Diabetes Capital of the World

• More than **70.3 million** people in the SEA Region have diabetes; by 2030 this will rise to **120.9 million**
• Rapidly growing populations.
• Undiagnosed diabetes.
• Health systems not geared up to handle the load.
Our Vision

Sightsavers’ vision is a world where no one is blind from avoidable causes and where visually impaired people participate equally in society.

Our Mission

We are an international organization working with partners in developing countries to eliminate avoidable blindness and promote equality of opportunity for disabled people.
Approaches for addressing DR

- **Partnerships**: seek out and develop partnerships with like-minded organizations, committed to elimination of avoidable blindness including DR.
- **Developing “Demonstration approaches”:** that are replicable and scalable for wider impact.
- **Aim at integration** of DR programs into **wider Health systems**.
- **Advocacy** to influence policy and practice in collaboration with technical experts.
- **Build local capacities** to deliver good quality DR interventions (including awareness, screening and early treatment)
Sightsavers footprint in India & SE Asia

New initiative with FHF in Pakistan under SIB V

Medical College Patiala
LKC Sri Jagadamba
Venu Eye Institute and Research Centre
Shree Bhairav Netra Yagna Samiti
Ophthalmic Mission Trust
Sewa Rural
Thulsi Eye Hospital

Dr RP Centre, All India Inst. of Med. Sc. (AIIMS)
Nirmal Ashram Eye Institute
Kherabad Eye Hospital
Gomabai Netralaya
Suraj Eye Hospital
Sankara Foundation
Sankara Eye Hospital, Pammal

Collaborative project with HKI and CEITC, Bangladesh
Best Practice Guidelines: Development and dissemination

Guidelines for Comprehensive Management of Diabetic Retinopathy in India

1. Information on diabetes and diabetic retinopathy
2. Magnitude of diabetes and diabetic retinopathy
3. Disease control
4. Human resource required and its development
5. Infrastructure & equipment
6. Health information for behavioral changes

* The development of this manual was conceived, initiated and supported by Sightsavers
Challenges and learning

- Lack of reliable “Region specific data” for program planning.
- Inadequate “Health care infrastructure” for handling identified cases of DM.
- “Health workforce”: inadequate numbers & training.
- “Cost-effective community based screening models”: inadequate evidence.
- “Information Management”: for effective tracking and follow up care.
- “Lifestyle change interventions”: need for “Social research”
Thank You
Introduction

Every diabetic is a potential candidate for loss of vision due to diabetic retinopathy. 70-80% of diabetic patients will develop DR in 25 yrs.

Diabetes in India

- 300 million people worldwide and 61.3 million people in India have diabetes*
- In India - 17th cause of blindness 20 years ago but now at 6th position

*International Diabetes Federation’s (IDF)

Human Resource in India

- 11,000 ophthalmologists, mostly trained only in cataract surgery
- 7-8% of ophthalmologists are trained in the management of DR
### Support for DR Projects

<table>
<thead>
<tr>
<th>Partner</th>
<th>Equipment</th>
<th>Vehicle</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Ophthalmic Mission Trust, Gujarat</td>
<td>OCT and Non Mydriatic fundus camera</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>2</strong> Nirmal Mission for Vision, Uttarakhand</td>
<td>-</td>
<td>Vehicle Running Costs</td>
<td>Diabetic Screening Strips &amp; Staff Salary, DR Camps and awareness generation</td>
</tr>
<tr>
<td><strong>3</strong> Gomabai Nethralaya</td>
<td>-</td>
<td>-</td>
<td>Awareness generation camps on DR; Training of Ophthalmologist</td>
</tr>
<tr>
<td><strong>4</strong> Khairabad Eye hospital, Uttar Pradesh</td>
<td>Non Mydriatic fundus camera for DR screening</td>
<td>-</td>
<td>Diabetic screening strips, Salary - Retina Consultant, Salary - Programme Manager</td>
</tr>
<tr>
<td><strong>5</strong> Shree Bhairav Netra Yagna Samiti, Rajsathan</td>
<td>Fundus Camera; Visual Double Frequency Green Laser</td>
<td>-</td>
<td>Awareness Generation, Outreach activity</td>
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<tr>
<td><strong>6</strong> Venu Eye Institute and Research Centre, Delhi</td>
<td>Fundus Camera, Vitrectomy machine, Digital system for Fundus Camera, Intravitreal instruments, Optical Coherence tomography</td>
<td>Vehicles</td>
<td>Construction of DR unit, Awareness Generation,</td>
</tr>
<tr>
<td><strong>7</strong> Sankar Foundation, Andhra Pradesh</td>
<td>OCT and Non Mydriatic fundus camera</td>
<td>Van for outreach work</td>
<td>Awareness Generation</td>
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<tr>
<td><strong>8</strong> Sankara Pammal, Tamil Nadu</td>
<td>OCT and Non Mydriatic fundus camera</td>
<td>Van for outreach work</td>
<td>Awareness Generation</td>
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<tr>
<td><strong>9</strong> Suraj Eye Hospital, Maharashtra</td>
<td>Non Mydriatic fundus camera</td>
<td>Van for outreach work</td>
<td>Awareness Generation</td>
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