The role of IDF in responding to the burden of vision loss in diabetes

Dr David Cavan
International Diabetes Federation

IAPB meeting
Paris
THE INTERNATIONAL DIABETES FEDERATION

230 member associations
representing 2 million members
in 170 countries
IDF’s 3 Goals
Global Diabetes Plan 2011-2021

1. Improve health outcomes of people with diabetes
2. Prevent the development of type 2 diabetes
3. Stop discrimination against people with diabetes
IDF’s 7 Roles

- Advocacy + Campaigning
- Evidence
- Translational Research
- Best Practice Projects
- Global Guidelines
- Humanitarian Programmes
- Convening
Diabetes is a **huge and growing problem**, and the costs to society are **high and escalating**.

382 million people have diabetes

By **2035**, this number will rise to **592 million**
Urbanisation.....
Number of people with diabetes by IDF Region, 2013

- North America and Caribbean (NAC): 37 M
- South and Central America (SACA): 24 M
- Africa (AFR): 20 M
- Middle East and North Africa (MENA): 35 M
- Europe (EUR): 56 M
- South-East Asia (SEA): 72 M
- Western Pacific (WP): 138 M

80% of people with diabetes live in low- and middle-income countries

382 M people living with diabetes
46% undiagnosed
STROKE

BLINDNESS

HEART ATTACK

KIDNEY FAILURE

AMPUTATION
... and the costs to society are **high and escalating**

Diabetes kills one person every **six seconds**

**5.1 million deaths** due to diabetes **in 2013**
Of those who die from diabetes, what proportion do so before the age of 60?
Health expenditure (USD) due to diabetes (20-79 years), 2013
Countries with High Rates of Diabetic Retinopathy in People with Diabetes

93 Million People have Diabetic Retinopathy

- Vision-threatening diabetic retinopathy: 28,000,000
- Other diabetic retinopathy: 27,000,000
- Diabetic macular edema: 21,000,000
- Proliferative diabetic retinopathy: 17,000,000

Type 2 diabetes is preventable
Diabetic retinopathy is preventable

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<tr>
<th>Glycaemia increase</th>
<th>Associated risk increase</th>
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<tr>
<td>1% increase in HbA$_{1c}$</td>
<td>21% increase in diabetes-related deaths P&lt;0.0001</td>
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<tr>
<td>21% increase in diabetes-related deaths P&lt;0.0001</td>
<td>14% increase in myocardial infarction P&lt;0.0001</td>
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<td>37% increase in microvascular complications P&lt;0.0001</td>
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Preventing diabetes-related blindness

• Primary prevention of type 2 diabetes
• Secondary prevention of retinopathy
• Screening and treatment for retinopathy
Eye Health Standard