Combating the Rise of Type 2 Diabetes in Africa

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Combating the Rise of Diabetes in Africa
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“Without a major breakthrough in preventing and treating diabetes, the number of cases in sub-Saharan Africa is projected to double, reaching 24 million by 2030.”
-International Diabetes Federation (IDF)

Tanzania
- Population: 36 million
- Affected by diabetes: about 450,000
- Percentage undiagnosed: over 80%
- Diabetes-related deaths per year: 15,408
- Percent of diabetic adults living in towns: 6%
- Number of diabetologists in the country: 6
- Average income per person: $256

Reasons for Increase in Diabetes Prevalence
- Barriers to healthy diet: poverty, seasonal availability of food
- Scarcity of weight monitoring equipment
- Obesity associated with affluence and authority
- Poor knowledge about balanced diet
- Only green obesity seen as a difficulty
- No time for physical activity
- Negative perceptions of diabetes as a physical activity

Types of Diabetes
Type 2 Diabetes Overview
- How does it happen?
  - Not enough insulin produced or insulin not recognized
  - Sugar builds up in blood- cells can’t function

Causes
- Overweight/obesity
- Lack of physical activity
- Unhealthy lifestyle choices

Symptoms
- Fatigue
- Thirst/frequent urination
- Unexplained weight loss

Diagnosis
- A fasting blood glucose test
- An oral glucose tolerance test

Treatments
- Diet and exercise/weight loss
- Medications (insulin if needed)

Urbanization
- Experiencing fastest rate of urbanization worldwide
  - More people moving to urban areas
  - Obesity as a sign of wealth
  - Increased consumption of high-fat and energy dense foods
  - High rates of obesity
  - Increased marketing from unhealthy restaurants
  - Decrease in physical activity
  - Increased technology and transportation

Need
Our need is to improve the education and diagnosis of Type 2 diabetes to combat the projected rise in this disease in Tanzania, Africa.

Approach
Educate patients/doctors on:
- How to test and record your blood glucose
- What to eat and when
- How to take medications, if needed
- How to recognize/treat low and high blood sugar
- How to handle sick days
- Where to buy diabetes supplies and how to store them (if affordable)
- Role of family members/support system

How:
- Utilize an educational pamphlet for doctors
- Utilize a separate, illiterate-friendly pamphlet for patients
- Distribute pamphlets in local clinics

Breaking Down Barriers
- Belief in health benefits/fear of consequences
- Empowerment/Self-confidence
- Locus of control
- Debunk myths about diabetes
- Address illiteracy issues

References
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