Diabetes mellitus

A Grassroots Intervention

Errol Y.St.A. Morrison OJ,
MD, PhD, FRCP, FACP, FRSM(UK), FRSH
[[My:Company]]

Quality of Life

- Swings in blood
 - sugar levels
 - acid levels (ketones, lactate)
- Infections
 - bacterial and fungal
- Pain of
 - neuropathy
 - musculoskeletal
- Depression

LAY DIABETES FACILITATOR Jamaica

Programme presented at World Expo 2000 in Hannover, Germany

Acclaimed:

'A Solution of the Future for Chronic Diseases'

LAY DIABETES EDUCATION

(LAY DIABETES FACILITATORS TRAINING PROGRAM)

- AlM: TO TRAIN RESOURCE PERSONS IN COMMUNITIES TO ASSIST THOSE WITH DIABETES
- SELECTION CRITERIA FOR PARTICIPANTS:
 - MUST HAVE SECONDARY LEVEL EDUCATION (...i e > SEVEN YEARS OF SCHOOL)
 - MUST BE A LEADING MEMBER OF THE COMMUNITY (50%)

or

COMMUNITY HEALTH WORKERS (50%)
- MOH/GOJ

LAY DIABETES EDUCATION CONT'D

• TRAINING SITES
HEALTH CENTERS IN THE COMMUNITY

METHOD OF DELIVERY

LECTURERS TRAVEL TO THE RESPECTIVE LOCATION TO CONDUCT TRAINING SESSIONS

LECTURERS:

- -PHYSICIAN
- -CHIROPODIST
- -NUTRITIONIST
- -DIABETES EDUCATOR (LAY PERSON)

LAY DIABETES FACILITATOR

EDUCATION METHODOLOGY CONT'D

- PRE-TEST
- LECTURES PHYSICIAN 1 HR

CHIROPODIST - 1 HR

NUTRITIONIST - 30- 45 MINS

EDUCATION DEMONSTRATION WITH VISUAL AID(BODY-LINK)-1HR

- POST TEST & COURSE EVALUATION
- CERTIFICATION by
 DIABETES ASSOCIATION & MINISTRY OF HEALTH (GOJ)



PICTURES





PICTURES











EVALUATION

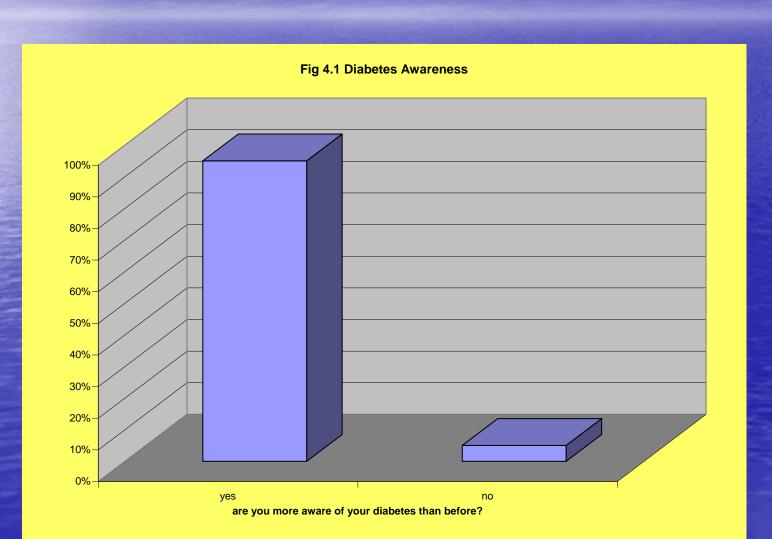
• The aim of the study:

To measure the effectiveness of resource persons trained in Diabetes Education as Lay Diabetes Facilitators, in changing the level of awareness and knowledge of the patients in their communities.

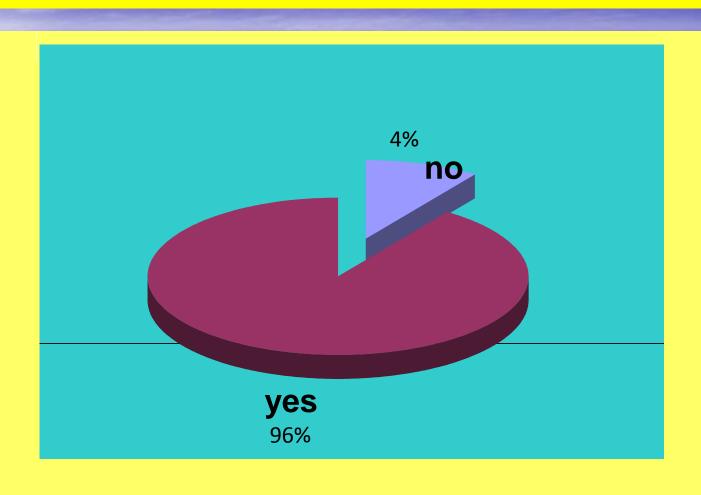
Population

- A multistage sampling technique was the method used to select two categories of respondents for the evaluation.
- Category 1 consisted of persons who had received training as lay diabetes facilitators.
- Category 2 was comprised of patients who received counselling from the trained facilitators

Diabetes Awareness in Category 2 (Patients)



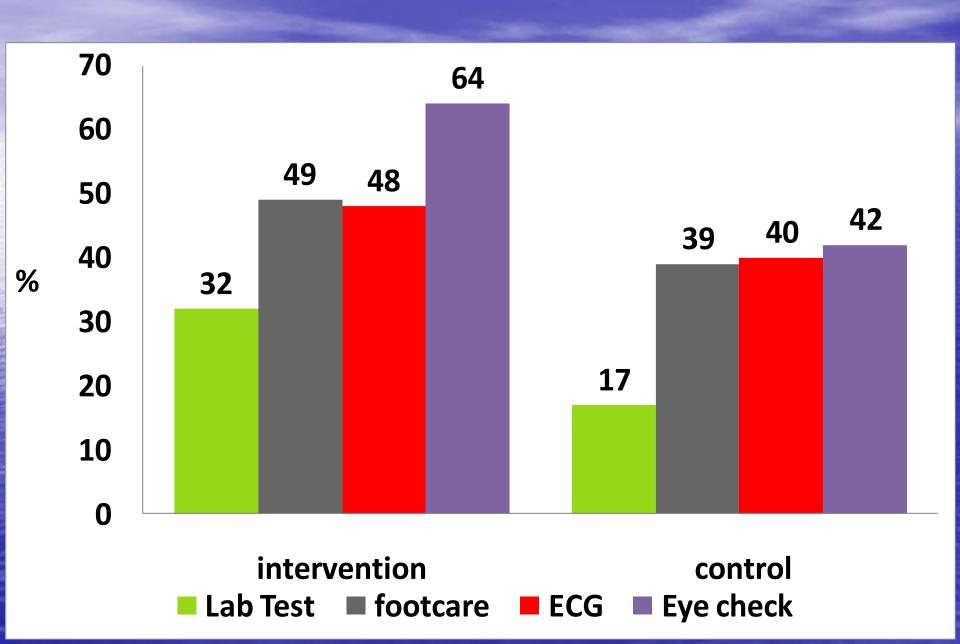
Awareness of Facilities



Mx in Past one Year

Type of Checks	Examination Done (%)		Number Of
	Yes	No	Patients
Eye	32.9	67.1	82
ECG	32.9	67.1	82
Blood sugar	82.9	17.1	82
Feet	57.3	47.7	82

Medical Checks done after intervention

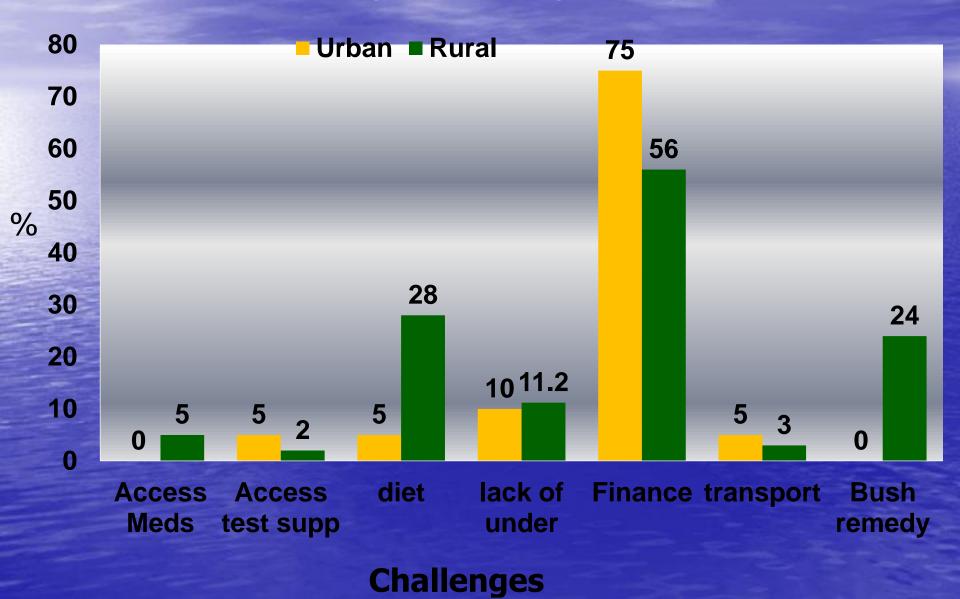


Main Challenges Faced by Patients

Challenges	Frequency	Percent
Finance	25	78.1
Access to medication	20	62.5
Dietary	18	56.3
Transportation	5	15.6
Education counseling	7	21.9
Other	3	9.4

Challenges faced by Patients

Finance was the greatest challenge faced by patients



Patients' Awareness of Resource Persons in Their Communities

	Question ?	PARISH	
		1yr	3yrslater
	Do you know resource persons in community	Clarendon N=40	Westmoreland N=42
	Yes	97.5%	83.3%
THE PARTY OF	No	2.5%	16.7
VEN			
11.00144	Did you get assistance from them		
LONG THE NEWSTON	-Yes	77.5%	59.5%
35 201 11	-No	22.5%	40.5 %

Knowledge of Patients' current behaviour.

Questions	Yes %	No %
Are patients more knowledgeable re diabetes	93.8	6.2
Are Patients taking better care of themselves	81.3	18.7
Are patients visiting clinics more frequently.	87.5	12.6

Population Studies

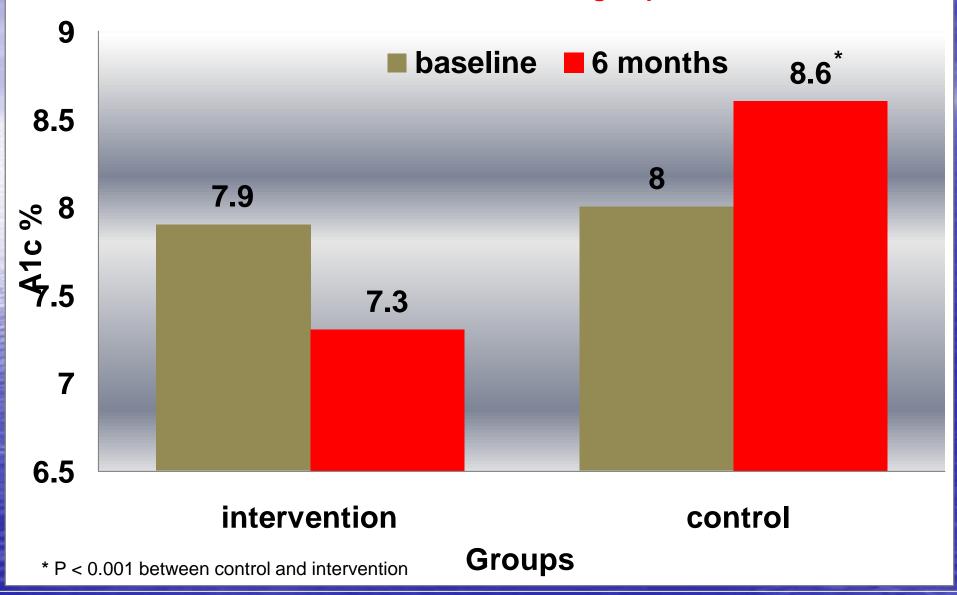
A1c values dropped by an average of 0.6%

In the first 6 months of follow up.

Lurline Less 2008

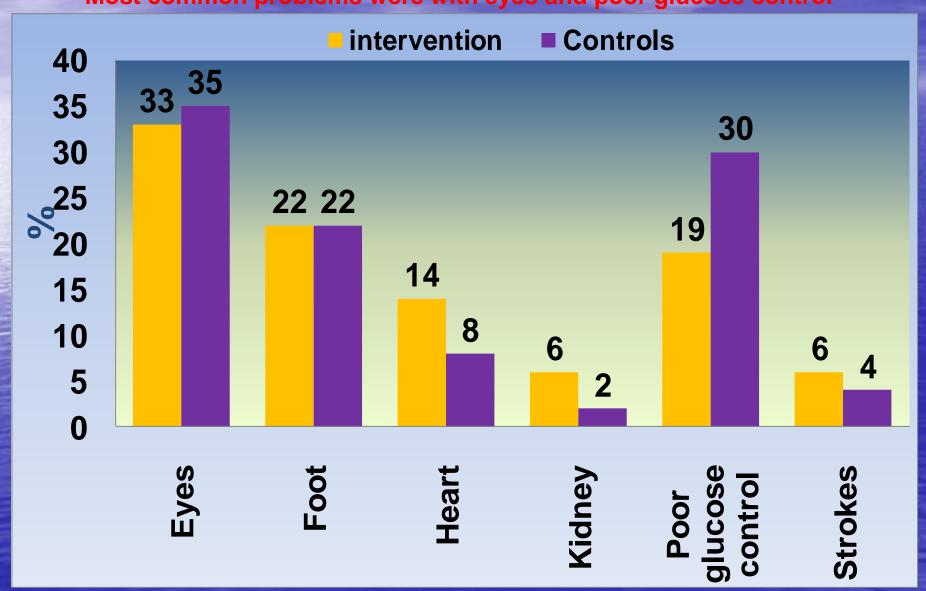
Mean A1c diff. between groups

Difference of A1c within intervention group of - 0.6%

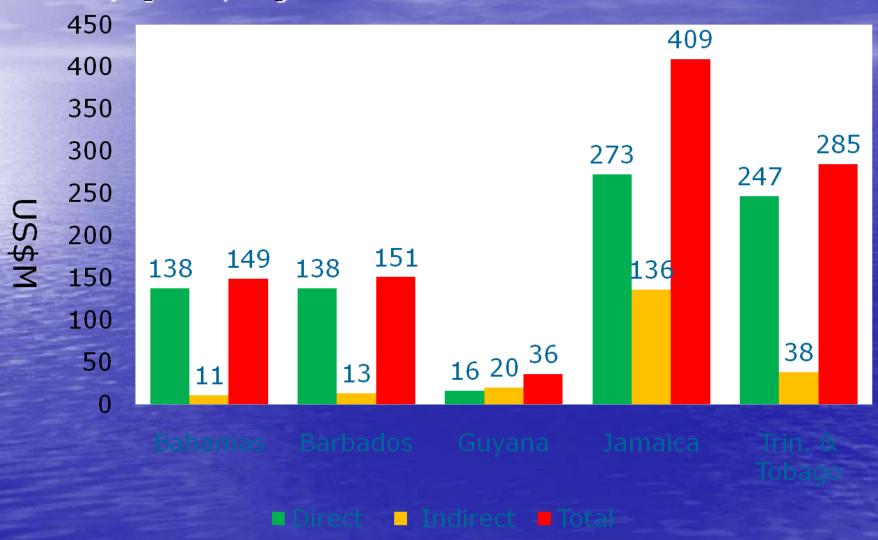


Complications

Most common problems were with eyes and poor glucose control



Estimated National Cost of Diabetes 2000, (US\$M)



Burden of Diabetes Care

An A1c reduction of 0.6% → 22.2% reduction in complications

Cost associated with complications is due to 25% direct and 75% indirect

Theoretical Cost-Benefit Calculation

Total Annual Cost Savings from 0.6% reduction in A1c U\$37,962,000

U\$

Less Training costs
412,000

Benefit to country

US\$37,550,000

per annum

Benefit to patient:

Reduced morbidity and mortality and improved quality of life

Diabetes Care - Regional Partnerships

- Diabetes Association of the Caribbean (DAC)
- International Diabetes Federation (IDF)
- Pan American Health Organization (PAHO)
- Declaration of the Americas on Diabetes (DOTA)