



Coverage of Care for Noncommunicable Disease Patients in a Health District of Palestine

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Outline

- NCD services in Palestine
- NCD information
- Package of Essential NCD interventions (PEN)
- DM & HTN Coverage in MoH clinics
- Recommendations

2013 symposium recommendations

- Improve availability and quality of data through conducting surveys and establishing registries.

NCD Services in Palestine

- Many health providers:
 - MoH , UNRWA, NGOs, military services & private sector
- Vertical programs mainly targeting DM
- Duplication of services
- Use of multiple providers

NCD Information in Palestine

- MoH monthly statistical reports:
 - number of visits but not number of patients
- MoH annual report:
 - number of visits of DM patients only
- NCD prevalence:
 - Stepwise survey (2010-2011)
- Academic institutions surveys

Package of Essential NCD Interventions ("PEN")

- Set of **evidence-based, cost-effective** interventions for detection, prevention, treatment & care of NCDs & their risk factors.
- MoH started piloting PEN in **16 clinics** in Salfeet district in January 2013
- Results from **one year** of implementation (Jan – Dec 2013)

STEPs survey & undiagnosed Hypertension

- Raised BP or currently on medication for raised BP **(39.5%)**
- Raised BP who are not currently on medication for raised BP **(30%)**

The value of routine data

- Routine clinic data – often an **under-utilized** resource
- Our presentation shows that even simple routine data can be used to **illustrate service gaps & direct future interventions**

Routine data from clinics

- NCD register (paper-based)
- Monthly aggregate data form (paper-based)
- District data base (Excel)
- Aim: central data base

NCD Registers

مديرية صحة:

مركز صحي :-

السنة:

10-Y. Risk	السكري										الكوليسترول المرتفع	الربو - الأستما الربوي المزمن	التهمة العنقية أو العنقية العنقية	تصلب شرايين القلب	ضغط الدم المرتفع	الجنس (M, F)	سنة الميلاد	رقم الهوية	الاسم	رقم الملف	التاريخ
	مضاعفات					العلاج															
	D.F.	Ret.	Neur	Neph	Life.S	Comp	Insulin	Oral	Type2	Type1											

District	Clinic	Year	Month	Sex	Item	Patient
Salfit	Salfit	2013	January	m	Total	14
Salfit	Salfit	2013	January	f	Total	26
Salfit	Salfit	2013	January	m	HTN	12
Salfit	Salfit	2013	January	f	HTN	21
Salfit	Salfit	2013	January	m	IHD	6
Salfit	Salfit	2013	January	f	IHD	10
Salfit	Salfit	2013	January	m	CVA	5

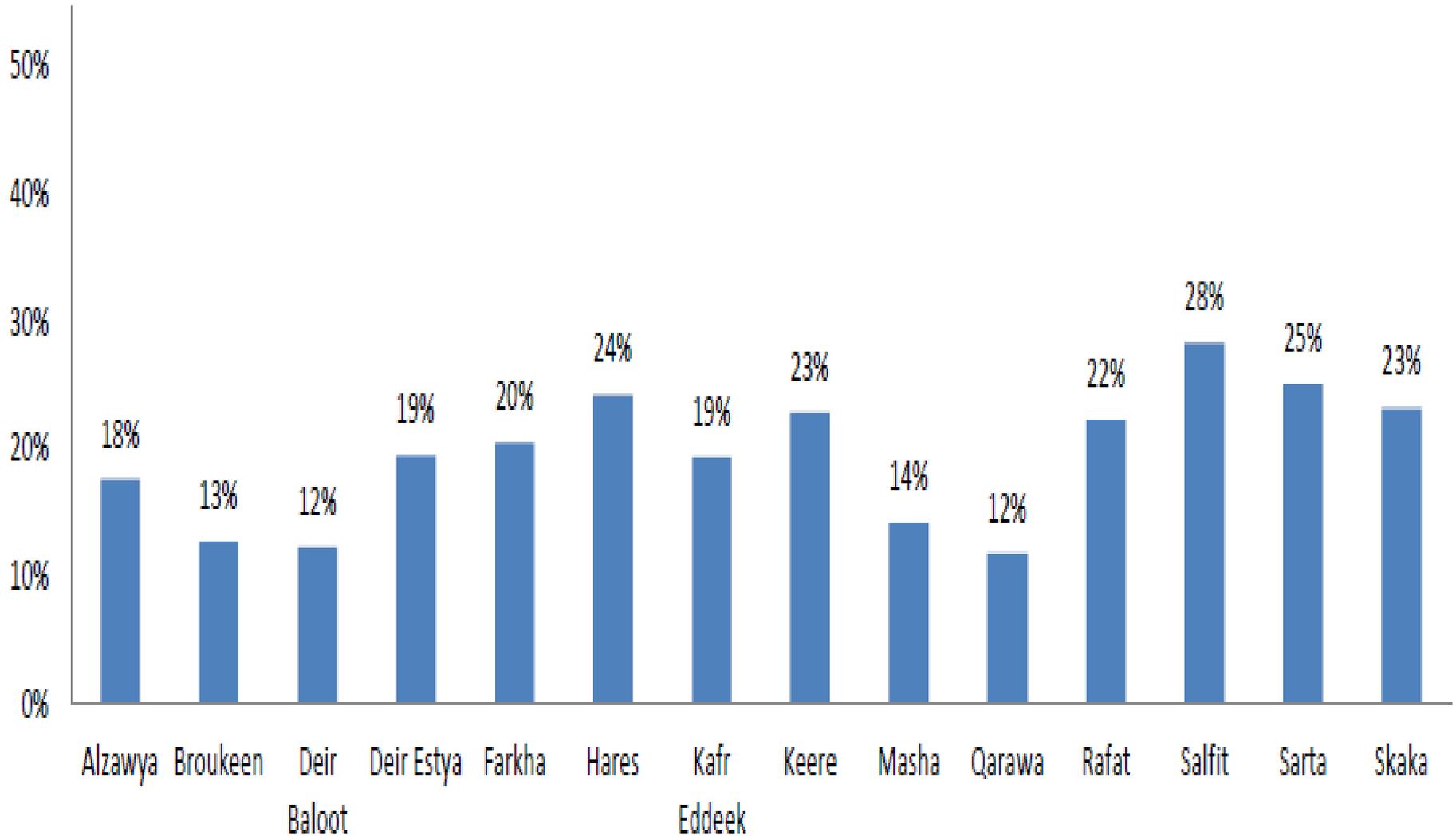
Methodology

- **Expected numbers of hypertension & diabetes mellitus patients for Salfeet district:**
 - Population projections (2007 Palestine census)
 - Prevalence of HT & DM (STEP survey 2010/11)
- **Routine data from clinic NCD registers**
- Simple Excel data base

Results

- **Hypertension coverage:**
 - 1,574 (64% of all registered) had hypertension
 - **21.5% of expected** patients with hypertension in the district
 - Individual clinic catchment area coverage: 12% to 27%

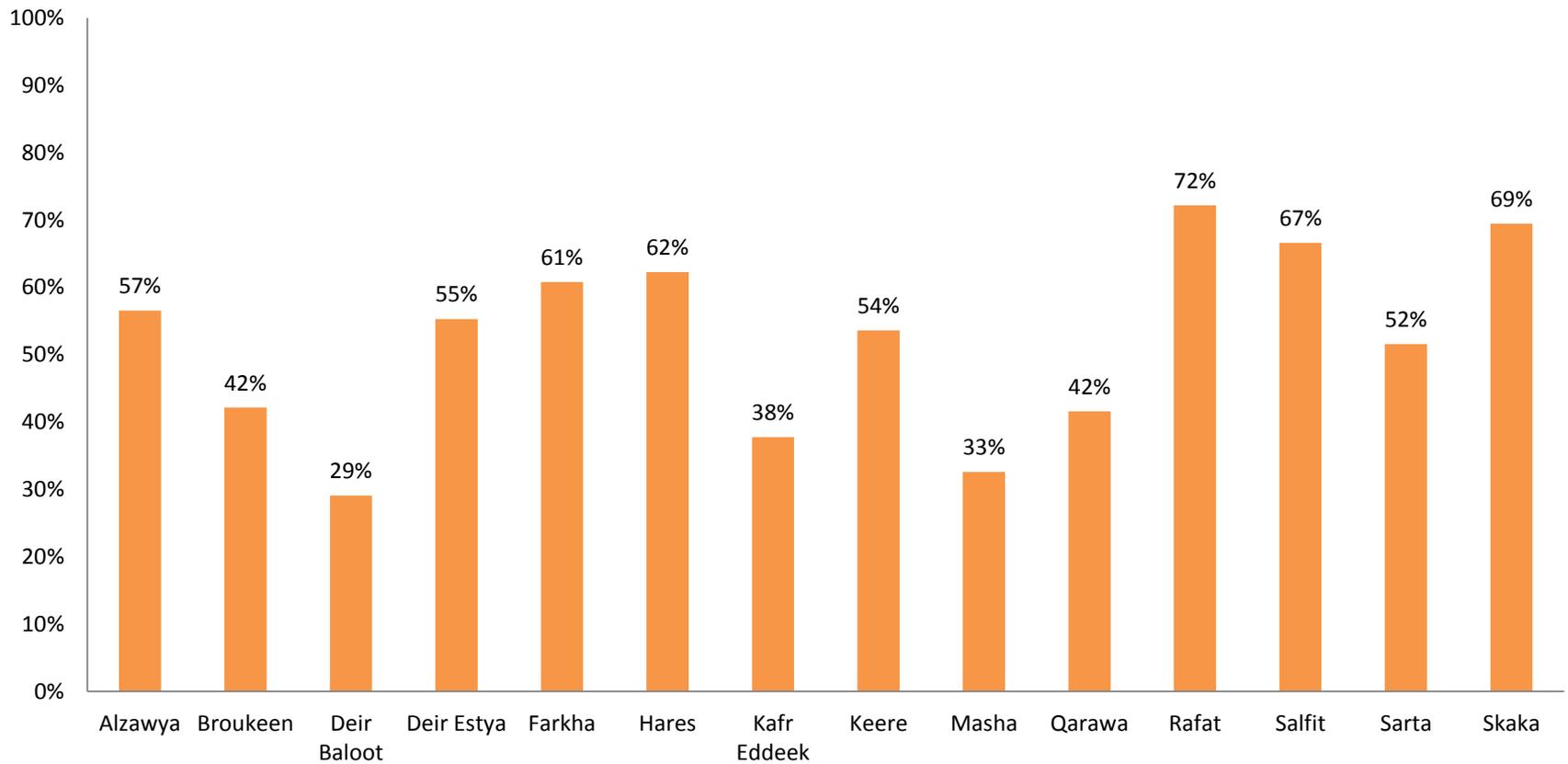
Hypertension coverage



Results

- **Diabetes Mellitus coverage:**
 - 1,281(51% of all registered) had diabetes
 - **58% of expected** patients with DM in the district
 - Individual clinic catchment area coverage: 33% to 82%.

Actual vs. expected - Diabetes



Results

- **Insurance effects:**
 - 70% of Salfleet population covered by public health insurance & therefore likely to use MOH clinics
 - Coverage recalculated for ensured only:
 - **31% of expected hypertension** patients
(Clinic range :18% - 44%)
 - **83% of diabetes mellitus** patients
(Clinic range: 47% - 117%).

Discussion

- Use of MOH NCD services:
 - Substantially **higher in patients with DM** than those with HTN
- Possible explanations:
 - **Special MOH program** for DM in all districts > 20 years
 - **Costs** of DM medications may force patients to use public system.
 - Lower coverage of HTN may also mean that cases are **not detected** by health workers.

Recommendations

- Active **screening** for the early detection of NCD, particularly hypertension
- Allocate **additional resources** to primary care to face the expected increase in the number of registered NCD patients in the future
- Promote **regular review of routine clinic data**

Acknowledgments

- We appreciate the work of the staff of all clinics in Salfeet district and of the district office.