Outline of the presentation

- Unique Identifier in Western Cape
- Benefits realised by the Western Cape
- Roadmap on how to get started
What is a Unique Identifier?

A unique number linked or assigned to a single patient so that all healthcare services is captured against this unique number to be used at all healthcare service sites including prevention not just treatment or care.
Unique Identifier structure in the Western Cape

Primary Identifiers:
1. Provincial Unique Client ID
2. National SA ID number
3. Passport number

Client

Patient

Additional Identifiers:
1. Facility Folder Number

Debtor

Additional Identifiers:
1. WCG Health Account Number
2. Medical Aid Number
3. Invoice Number
4. Pension Number

Lookup, Search & Merge Facilities Across Province

The person responsible for paying the account
Patient Information linked to Unique Identifier

- Names, Date of birth, Sex, National ID #, Passport #
- Addresses (Geocoding in progress)
- Contacts
- Folder locations
- Meta data (e.g. # folders registered, last activity dates)
- Family relationships
- Births
- Mortality

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Basic functions of the Unique Identifier

- The ability to **identify** individual patients;
- Ability to **link a variety of data fields** needed to deliver healthcare;
- Ability to **aggregate information** across institutional boundaries;
- Protect the **privacy, confidentiality and security** of personal health information;
Background to the Western Cape Unique Patient Identifier

Hospital system
(Present in 53/54 hospitals, including all in metropolitan area)

Primary care
(Patient registration systems in all 307 clinics)

Clinical systems
recording electronic data against shared registration number (PMI)
- Radiology
- Laboratory
- Pharmacy
- ART registers
- TB registers
- New systems

Clinical audit tools
- Perinatal (PPIP)
- Child Health (CHIP)

Mortality and birth surveillance
- Province-wide mortality surveillance system for all deaths and stillbirths
- Province-wide birth registration system
Current Status of Unique Identifier in Western Cape

- 400+ Facilities have the ability to register patients with Unique Identifier
- All core systems are linkable via the Unique Identifier - allowing patient care records to be viewed irrespective of treatment centre
- Electronic dispensing covers 83% of all issues & expanding rapidly
- All laboratory data are available electronically
- 90% of Radiology images and reports are done electronically
- Individual-patient-level health data centre create true intelligence and system independence
- Complete electronic data for HIV, TB, and good progress being made on other chronic diseases, pregnancies and births
Single view of patient records
An example of an integrated episode summary-HIV

Pregnant
Tuberculosis

01/02/2008
15/06/2009
28/10/2010
11/03/2012
24/07/2013
06/12/2014

CD4
Viral load (Log10)
ART Start
VL 400 copies/ml
Clinic visit
Admission
OPD visit

0 100 200 300 400 500 600

d4T
TDF
AZT
3TC
FTC
EFV
LPV/r

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Performance of treatment cascade (90-90-90): 2015/16
Further compromised by vertical measurement in National ART System

- Started ART: 11 275
- Still in care: 8 947 (79%)
- Viral Load Completed: 3 740 (42%)
- Viral Load Suppressed: 3 466 (93%)
- Integrated reporting (Province): 6 851 (86%)
- National ART System with valid PMI #: 7 925 (84%)
- 9 475 (83%)
- 11 369

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Filing of patient folders (STICK IT, FILE IT, FIND IT)

DE VEGA
IAN EDWARD
CONSTANTIA
CAPE TOWN, 7880
Tel No: 0763551515

DOB: 19/05/1982
Sex: M
GEOHD/94G004

BIN number
Sub-BIN number
The Unique Patient Identifier has also enabled us to track patient journeys across the service delivery platform and determine:

- Loss to follow up
- Treatment adherence
- Fragmented care
- Hospital re-admissions
- Infer health conditions and co-morbidities from routine laboratory data, pharmacy dispensing data and type of facility/clinic/ward e.g. HIV, TB, Pregnancy, Mental health conditions, chronic diseases of lifestyle, etc.
Western Cape Unique Identifier Journey

Envisaged Projects Plan

Real Projects Plan
Types of facilities

- Patient Folder
- No Electricity
- No Internet

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Initial steps to developing a Unique Identifier System (PMI)

- Detailed situational analysis
- Plan to address issues from assessment
- Technical leadership
- POLITICAL WILL
- Developing Unique ID, content-free, linkable, verifiable, also support paper clinic needs
- Legal changes
- Data stewardship guides appropriate use of data. Ensure the individuals' privacy, confidentiality & security of personal health information
- Continuous training
- Staged deployment & system integration according to plan

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Many of these solutions for better access to care are available right now, the challenge is to get them implemented and not accept the constraints imposed by the status quo.
Acknowledgement

July 2016 Unique Identifier Workshop Participants:

Thank you