



Blockchain's role in improving outcomes in Seniors Community Care

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Peel Senior Link
helping seniors live independently



Agenda

1. Peel Senior Link
 2. Blockchain in Healthcare
 3. Blockchain solution
 4. Challenges
- 



1. **Peel Senior Link**

Helping Seniors Live Independently



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“Quality and valued assisted living services by helping seniors live independently with dignity and respect”



Peel Senior Link
helping seniors live independently



Ruth

91 Years young

Medication program, showers, meal prep, dishes, bed assistance, grocery, cleaning and laundry

Incorporated

Incorporated and received charitable status

Funding from United Way of Peel, Ministry of Health, grants and donations

SDL

SDL Model developed – 24/7 – also known as hub & spoke model.

Growing

11 locations with a capacity of 325 clients, Bathing program, Integrated Seniors Team, Creditvale Mills Hub

1991

Need

Supportive Housing for Seniors identified as a Community need

1993

24 hours

Moved from 12 + 12 service to 16 hours and then 24 hours on-site service in 13 buildings across the Region of Peel

1998

2008

Accreditation

First accreditation – 3 year status

2010

2018

Hub and Spoke Model

	Personal Hygiene Activities	Personal Routine Activities of Daily Living
Personal Support Services	<ul style="list-style-type: none">• washing• bathing• mouth care• hair care• preventative skin care• changing dressings (not wound care)• routine hand and foot care	<ul style="list-style-type: none">• transferring/positioning• turning• dressing/undressing• assistance with eating• assistance with toileting (diapering, emptying/change leg bag, catheterization, bowel routine)• assistance with exercise• escort to medical appointments• medication reminders; assistance with pre-measured medications
Homemaking Services	Light dusting, sweeping, vacuuming, mopping floors, washing dishes/ countertops, clean and disinfecting bathrooms Laundry and planning/preparing meals	
Attendant Services	Combination of personal support and homemaking services offered at clients' preferred, pre-determined time and pre-determined task they cannot physically do for self	

Our Impact



Total Clients Served
325



New Clients Served
103



**Long-Term Care
Diversions**
36



ER Visits Diverted
103



**Dollars Saved With
Diverting ER Visits**
\$40,929*



**Total Resident Days
Per year**
117,530

Recognition

- 2009-2011: Best Small & Medium Employers in Canada
- 2011: Quality Team Award 3M Health Care
- 2014: Minister's Medal Excellence in Health Care Quality & Safety
- 2015: MH LHIN Person Centred Care Quality Award
- Accreditation: 2 consecutive Exemplary standings (2013-17 & 2017-21)
- 2017: CEO – 25th Anniversary Leadership Award – OCSA
- 2017: IDEAS & HQO

Growing Issue



Baby Boomers
More seniors than kids
< 15



2024
Seniors 20.1% of entire
population



Chronic
75-80% have more than
one



Medications
65% take 5 or more



At Home
2.2M, 15% unmet

Big Data in Seniors



Improve
Health of
Population

Enhance
care
experience

Reduce
cost of
doing both

Advantages of Big Data in Seniors Community Care



Client Perspective

- Meaningful patterns
- Improved caregiving
- Better outcomes

Operational Perspective

- Efficiencies
 - Reducing medication errors
 - Identification of service capacity
- 

Data Capture in Community Support Sector



Organization-specific



Funder-guided



Poor reciprocal feedback



Common assessment tool (Inter-RAI)



Common indicators



Lack of benchmarking

Example of data points collected

of Referrals by Referral Source

Number of ER visits

Number of clients returned back to SDL from hospital

Number of clients removed from LTC Home waitlist

Client capacity

Total number of admits

Total number of clients on waitlist

CHESS scores of clients

Average length of stay

Languages spoken

Falls

admissions by referral source

Number of clients on SDL Service entering hospital

Number of clients with SDL/CCAC Wait at Home Service

Number of clients diverted from LTC

Total clients on service

Total number of discharges

MAPLe scores of clients

Admission age and gender

Discharge reasons

Medication errors

A decorative background featuring a network diagram with nodes and connecting lines, primarily visible on the left and bottom right sides of the slide.

2. Blockchain in Healthcare

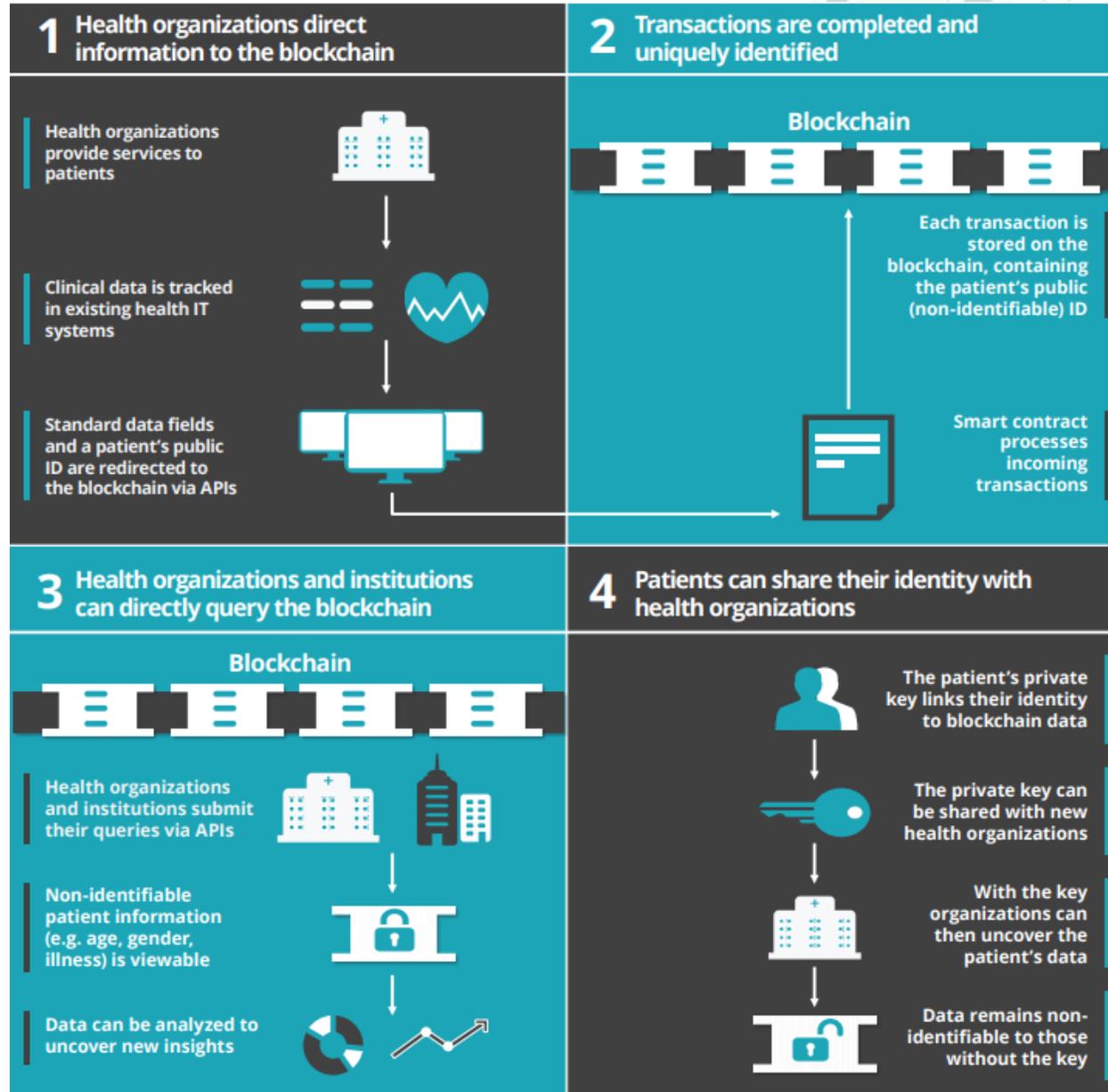
A potential breakthrough in the
community support sector?



Blockchain in Healthcare

- ◎ Distributed systems of logging transactions
- ◎ Encrypted, secure access
- ◎ No central administrator
- ◎ Near real-time information

Ecosystem



Deloitte, Blockchain – Opportunities for Health Care, 2016

A decorative background consisting of a network of interconnected nodes and lines, rendered in a light gray color. The nodes are represented by small circles, some of which are solid and others are hollow. The lines connecting them form a complex, web-like structure that is more dense on the left and right sides and sparser in the center.

3. **Blockchain Solution**

In community support sector

A microscopic view of numerous purple, spherical MRSA bacteria. The bacteria are densely packed and appear to be in various stages of division, with some showing distinct septa. The background is black, making the purple bacteria stand out.

**Real World
Example**

MRSA

A decorative background consisting of a network diagram with nodes and connecting lines, rendered in a light gray color. The nodes are represented by circles of varying sizes, some with a solid center and some with a hollow center. The lines are thin and connect the nodes in a complex, interconnected pattern.

4. Challenges

With utilization of Blockchain in the
community support sector



Blockchain in Healthcare

- ◎ Data breach
- ◎ Privacy and security
- ◎ Client-driven
- ◎ Costs to non-profit organizations
- ◎ Maintaining integrity of data



Health care is becoming more digitized and consumer oriented. It's not an overnight change, but more like how summer turns into fall – gradual yet very perceptible."

– Greg Scott, Principal, Deloitte Consulting



We know that change is coming, and it's better to guide that change in a positive direction rather than fight it



Thanks!

Any questions?

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