

# **TELEHOMECARE PROGRAM SUPPORTS CHRONIC DISEASE MANAGEMENT IN NORTHERN ONTARIO**

**June 24, 2016**

***Presented by:***

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Northern Ontario  
School of Medicine

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du Nord de l'Ontario

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## **Conflict Disclosure Information.**

**Presenters:** Sandra Mierdel and Jason Carney

**Presentation:** Telehomecare Supports Chronic Disease Management in Northern Ontario

**We have no financial or personal relationships to disclose**

# About OTN



The Ontario Telemedicine Network (OTN) is the global leader in telemedicine. We're a made-in-Ontario solution for healthcare transformation and sustainability.

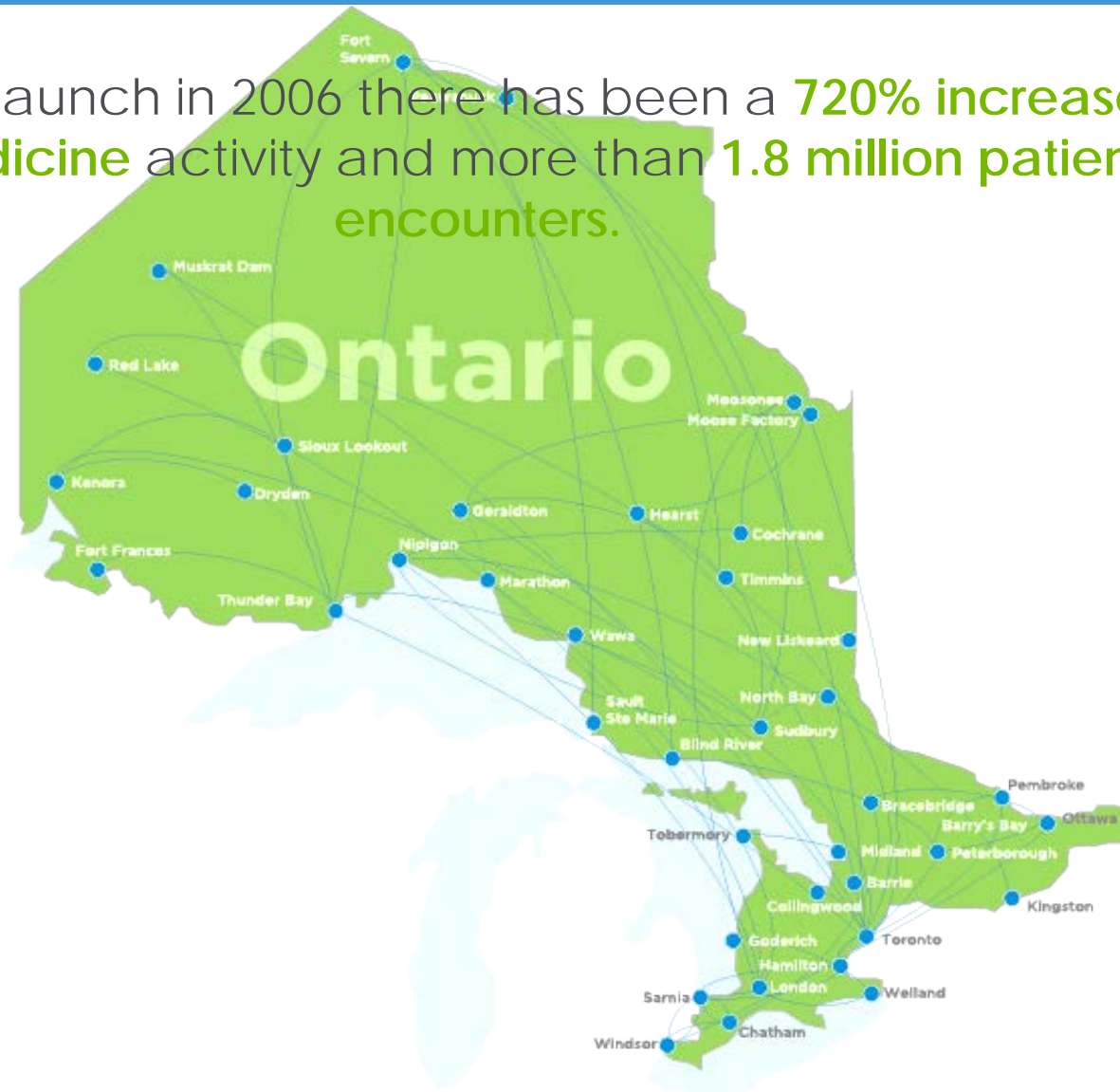
**1,748**  
OTN SITES

**543,000+**  
PATIENTS SERVED

**23,477**  
LEARNING EVENTS

# Growth of Telemedicine

Since our launch in 2006 there has been a **720% increase in telemedicine** activity and more than **1.8 million patient encounters.**



OTNHUB.CA

# Telehomecare: A Patient Centred Model



## Clinician Health Coaching:

Teaching the Patient how to self-manage & meet their goals



## Efficient MRP Engagement:

Clinician provides regular updates, consults as required



## Patient Empowerment:

At home; Sets Personal Goals; Submits vitals/ health responses



## Remote Patient Monitoring:

Weekday feeds & Alerts



## Simple Technology in Home:

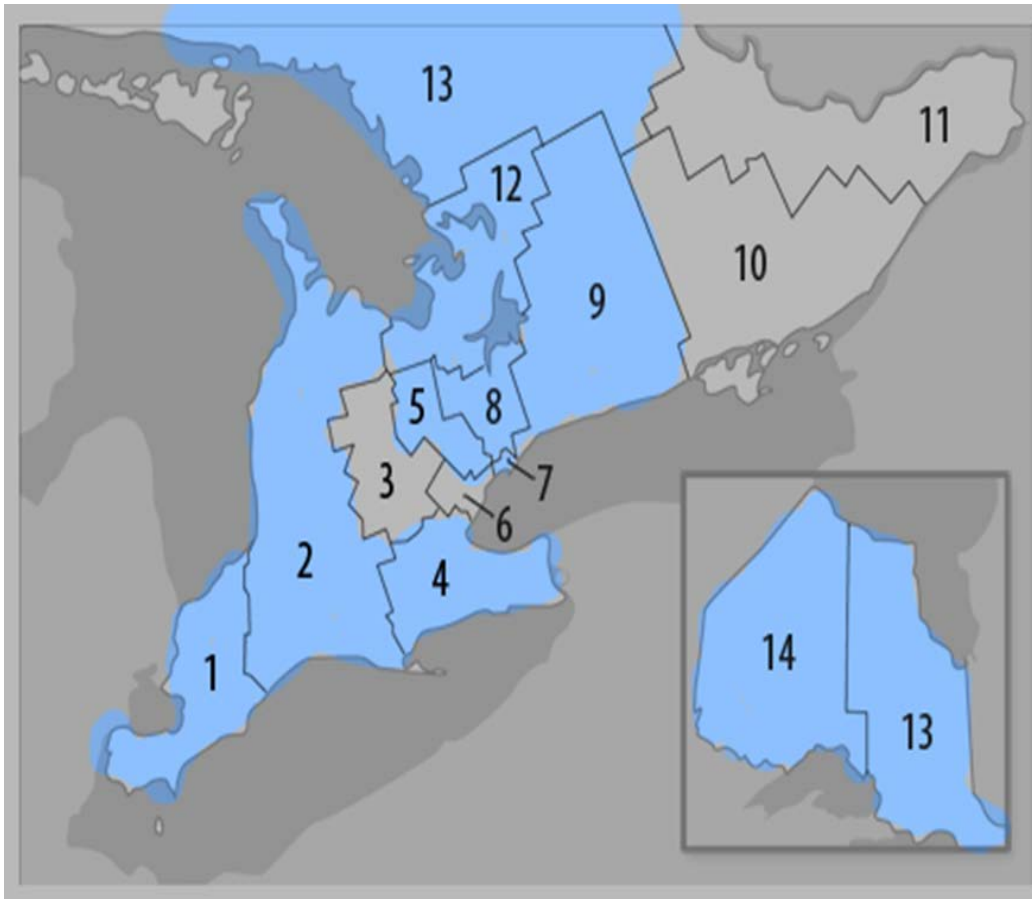
Tablet, BP Cuff, Scale & Pulse oximeter

The telehomecare clinician provides teaching, care and support over the phone.



# Current State

8900+ patients supported to date, 2000+ in Northern Ontario



## 13 Hosts are Currently Live:

- 1 Erie St. Clair (CCAC)
- 2 South West (CCAC)
- 4 HNHB (St. Joseph )
- 5 Central West (William Osler Health System)
- 7 Toronto Central (CCAC)
- 8 Central (HealthLinks via Southlake & CCAC)
- 9 Central East (CCAC)
- 11 Champlain (TOH)
- 12 North Simcoe Muskoka (CCAC)
- 13 North East (CCAC)
- 14 North West (CCAC & TBRHSC)



# Provincial Service **SPREAD→SCALE**

## CHF & COPD (RPM& Coaching)

- 8500 patients, 10 LHINs offering
- Self Management – 6 months for patients to “graduate”
- >50% reduction in IP and ED visits maintained 6 months after discharge

## Integrated Care Model

- Incorporate remote patient monitoring into an established IFM program
- Program live with St. Joseph’s Health System in HNHB LHIN with planning underway to spread to other IFM program

## Congregate Living

- Adapted existing care model for seniors living in assisted living, supportive housing and retirement home environments
- Sites live in Central LHIN, TC LHIN, CW LHIN, planning underway at sites in NSM
- Group teaching provided when possible via telemedicine

## Post Acute

- Shared Care Model (test model is with HF) 8-12 week enrolment with focus on care transitions support
- 6 month pilot and 3 pilot sites
- Protocols developed to support monitoring and just-in-time teaching for patients with more acute care needs



# Results: User Satisfaction\*

## ● Recommend Program

- **96.8%** of patients indicated they would likely recommend the program to others

## ● Improved Self-Management

- **94.5%** responded positively that Telehomecare improved their ability to self-manage their condition

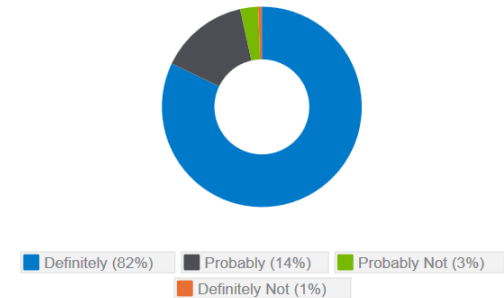
## ● Progress towards Health Goals

- **91.5%** indicated satisfaction with progress towards their health goals

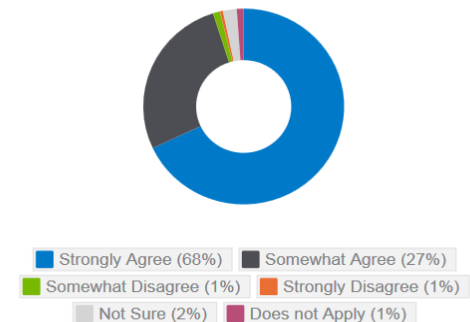
## ● Improved Quality of Life (QOL)

- **88.0%** answered positively that QOL improved with program

### Likelihood to Recommend Telehomecare



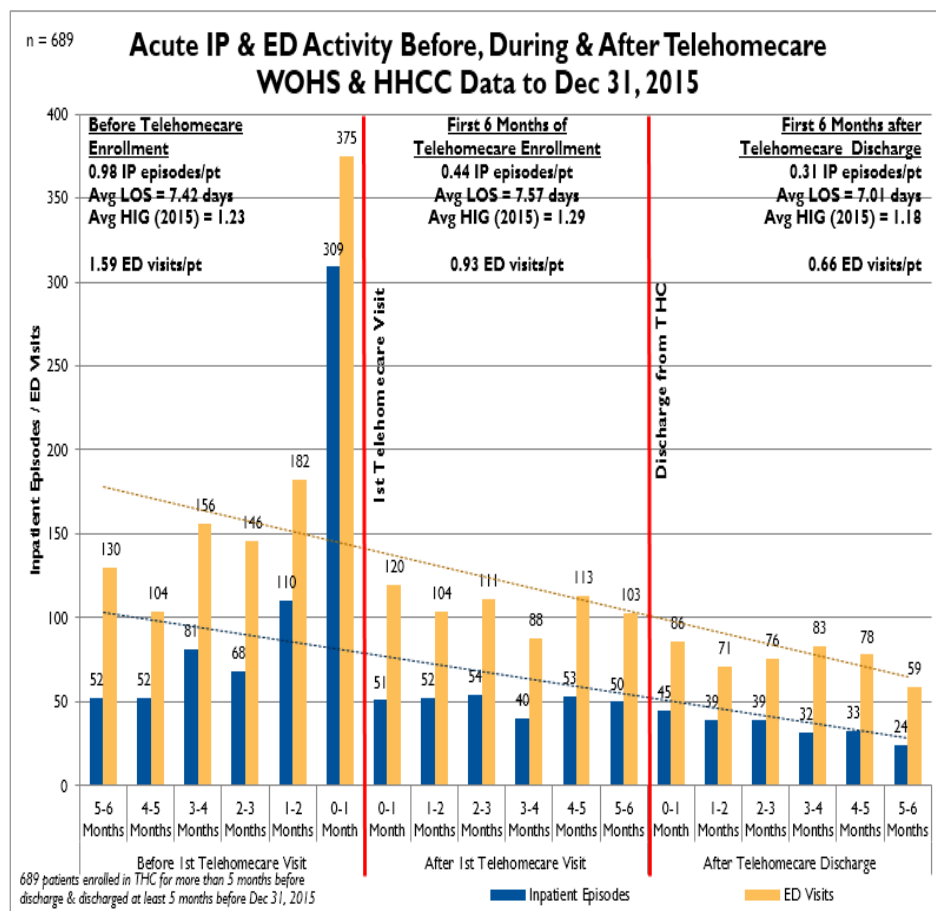
### Being in the program allowed me to better manage my health



# Central West Health Region - Outcomes

## Acute In-Patient and ER Activity Before, During, and After Telehomecare

**58% decrease in ER visits** and a **68% decrease in inpatient admissions.**



# Quality Dashboard and Data Placemat

| Ontario Telemedicine Network: Provincial Telehomecan    |                        |   |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
|---|------------------------|---|----|----|---------|------|-----|----|----|--------|----|------|-------|-------------------|------------------------------------|
| Reporting Period effective as of: April 2015 - Jan 2016 |                        |   |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
| Indicator Type  | #                      | Key Performance Indicator (KPI)             |    |    |         |      |     |    |    |        |    |      | YTD   | Provincial Target | Data Source                        |
|   |                        | Jan-16                                      |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
|   |                        | ESC   | CW | TC | Central | SRHC | NSM | NE | NW | TBRHSC | SW | HHHS |       |                   |                                    |
| OPERATIONS  | 1                      | # Patients Enrolled                         |    |    |         |      |     |    |    |        |    |      | 2,656 | Individual        | PMMS: Program Activity Report      |
|   | 1.1                    | ▶ # patients with CHF diagnosis             |    |    |         |      |     |    |    |        |    |      | 1,361 | n/a               | PMMS: Program Activity Report      |
|   | 1.2                    | ▶ # patients with CHF- Diabetes diagnosis   |    |    |         |      |     |    |    |        |    |      | 79    | n/a               | PMMS: Program Activity Report      |
|   | 1.3                    | ▶ # patients with COPD diagnosis            |    |    |         |      |     |    |    |        |    |      | 1,175 | n/a               | PMMS: Program Activity Report      |
|   | 1.4                    | ▶ # patients with COPD - Diabetes diagnosis |    |    |         |      |     |    |    |        |    |      | 34    | n/a               | PMMS: Program Activity Report      |
|   | 2                      | # Patients Monitored                        |    |    |         |      |     |    |    |        |    |      | 152   | n/a               | PMMS: Workload Distribution Report |
|   | 3                      | # of Total Discharges                       |    |    |         |      |     |    |    |        |    |      |       |                   | PMMS: Program Activity Report      |
|   | 3.1                    | ▶ % planned Discharges                      |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
|   | 3.2                    | ▶ % non-Enrolments                          |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
|   | 3.3                    | ▶ % unplanned Discharges                    |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |
| 3.4   | ▶ % unknown Discharges |   |    |    |         |      |     |    |    |        |    |      |       |                   |                                    |

Quality Pulse Check: Telehomecare Data Placemat for NE CCAC

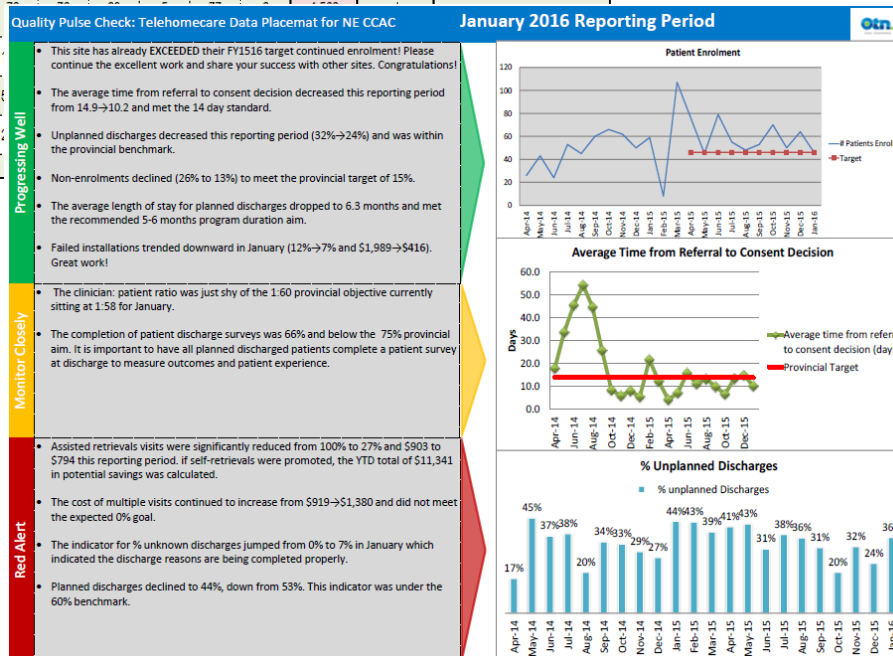
January 2016 Report

Using Well

This site has already EXCEEDED their FY15/16 target continued enrolment! Please continue the excellent work and share your success with other sites. Congratulations!

The average time from referral to consent decision decreased this reporting period from 14.9→10.2 and met the 14 day standard.

Unplanned discharges decreased this reporting period (32%→24%) and was within the provincial benchmark.



# MARTHA

DIDN'T HAVE TO GO TO  
THE HOSPITAL TODAY.



## North West LHIN Context



### COPD

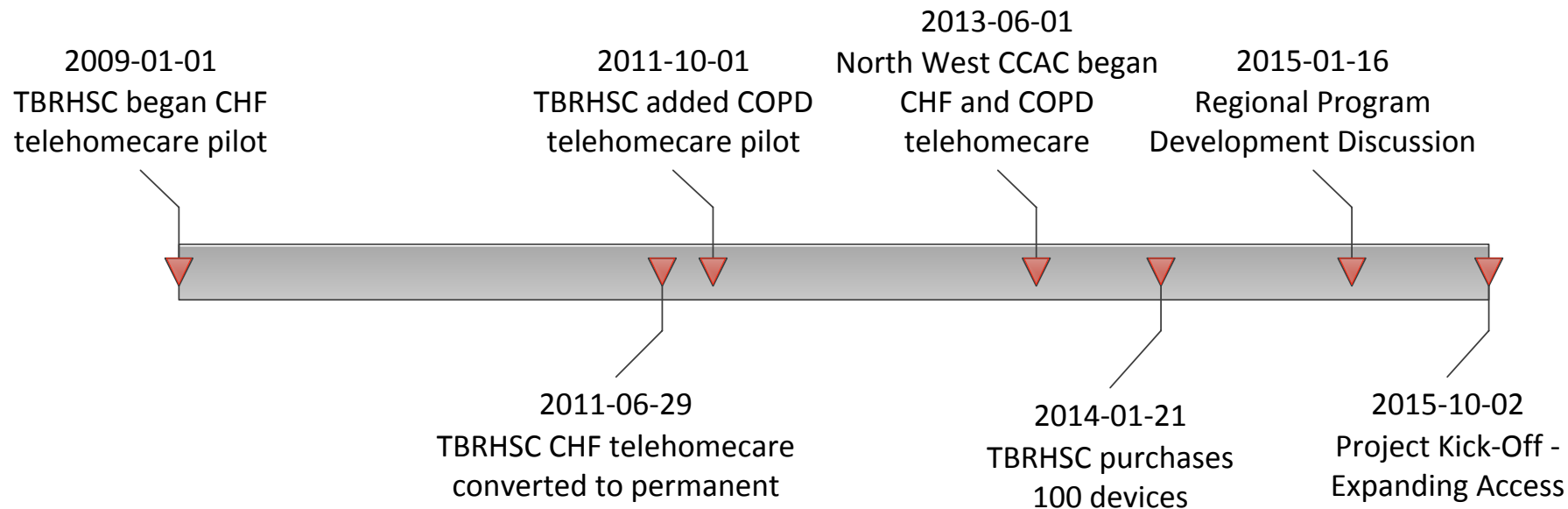
- 1875 ED visits = 6.1% of total
- 813 hospital discharges = 14.5%
- 5874 Acute LOS = 16.1%
- 1372 ALC LOS = 19.8%

### CHF

- 903 ED visits = 3% of total
- 667 hospital discharges = 11.9%
- 5579 Acute LOS = 15.3%
- 1074 ALC LOS = 15.5%

Source: IntelliHealth Ontario, NACRS & DAD databases; 2014/15 FY

# History



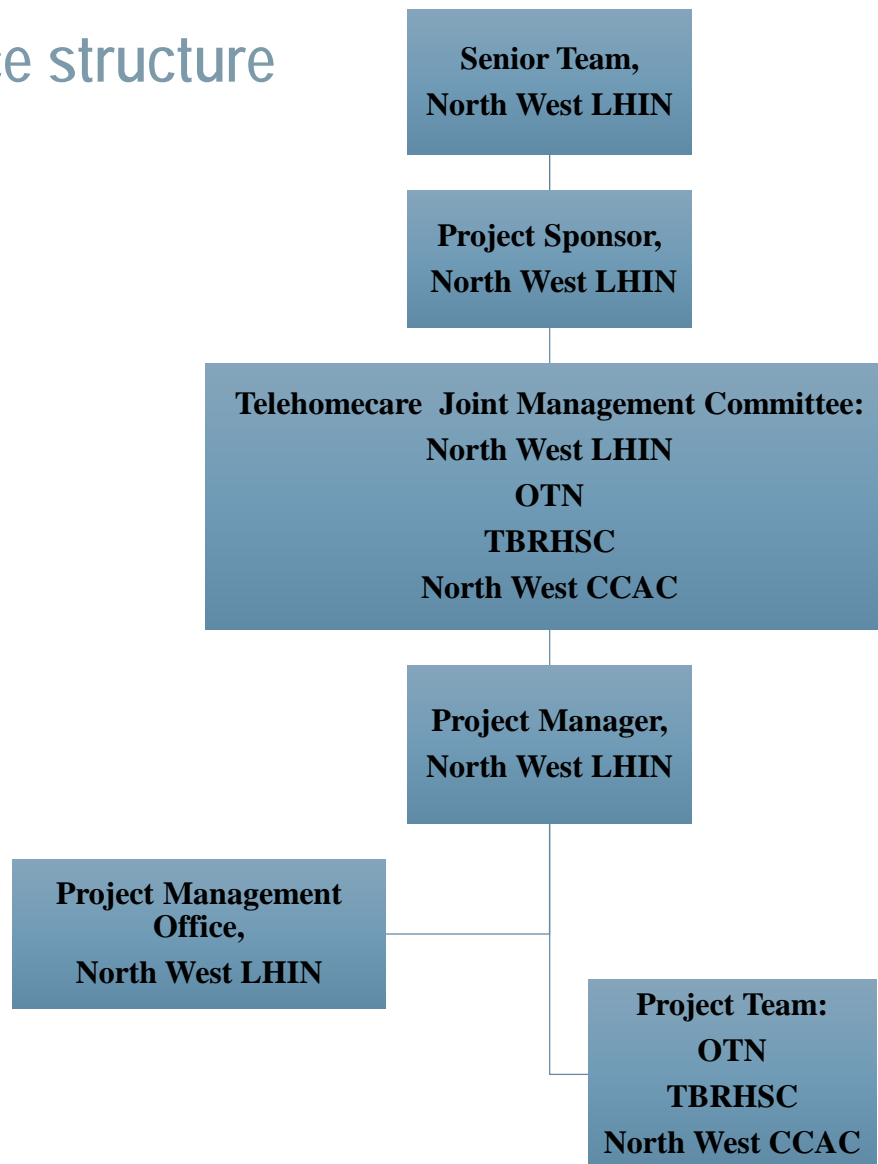
There are two telehomecare programs in the North West LHIN:

- Self-management model at North West CCAC
- Post-acute model at TBRHSC

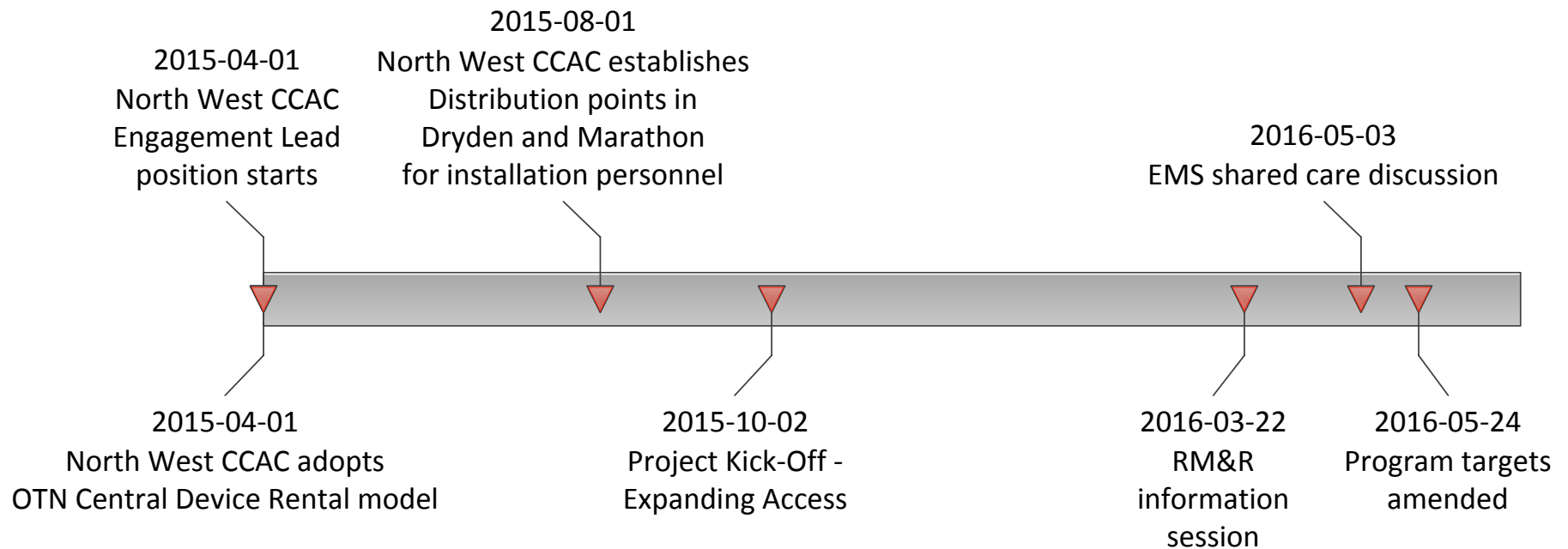




# Governance structure

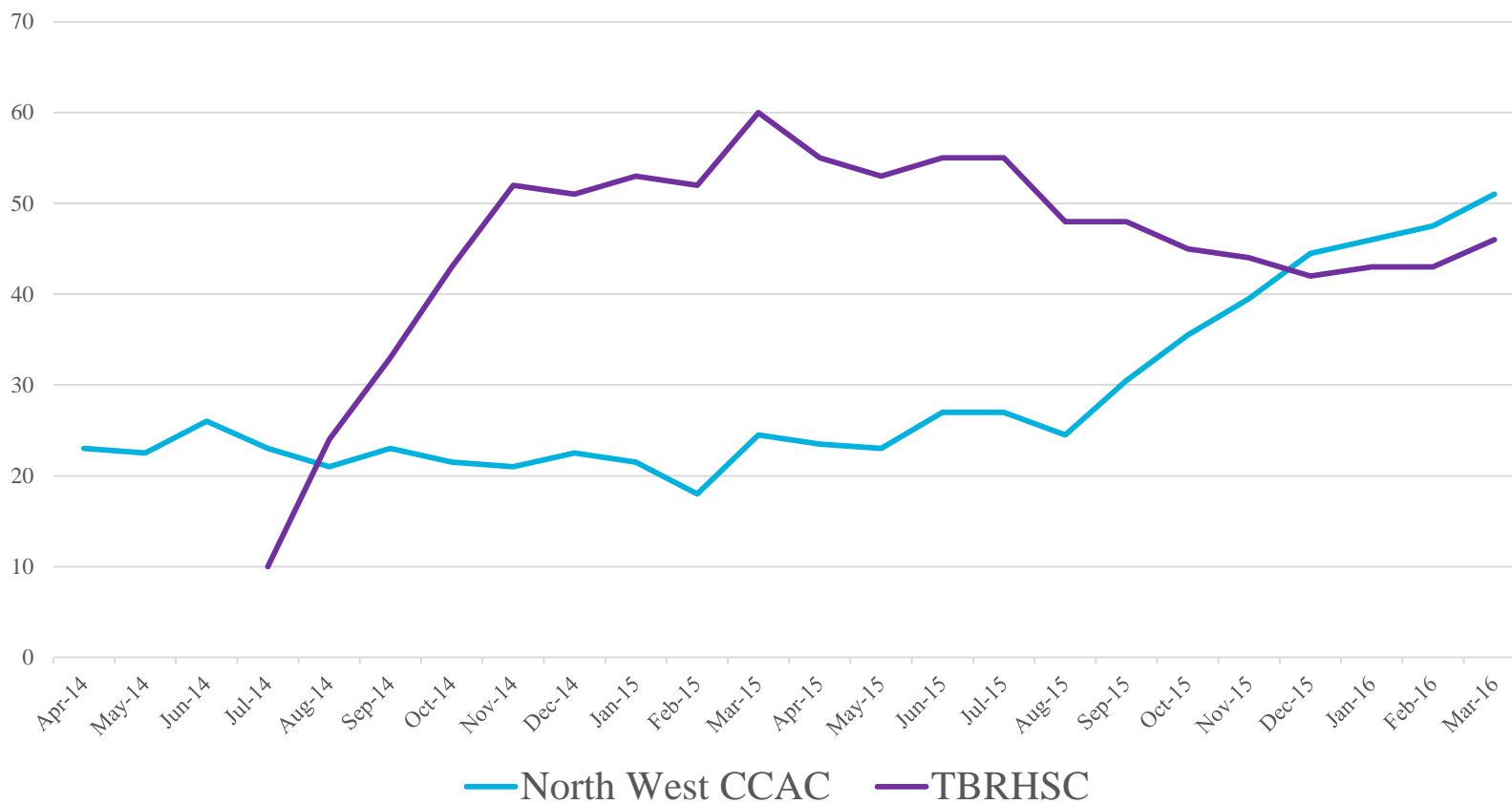


## Quick wins



# Results

Number of Patients per Clinician  
Monitored on Telehomecare, North West LHIN



## Priority work

Establishing a central intake, or Resource Matching and Referral systems

Creating a common referral form

Transitioning TBRHSC to OTN's Central Device Rental model

Partnering with Community Paramedics in a shared care model

Coordinating installations by the North West CCAC IT department staff

Evaluation of impact on ED visits and hospital inpatient episodes

## Future work

Post-discharge survey for evaluation of patient satisfaction and quality improvement

Continue to raise awareness among primary care practitioners, hospital discharge planners and system partners

Provide access in long-term care homes

## Lessons learned

Partnership

Windows of opportunity

Flexibility

Questions?

Thank you.

