







Regional Orthopaedic Program Musculoskeletal Centre of Excellence



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Conflict of Interest Declaration: Nothing to Disclose

Presenter: Dr. David Puskas and

Caroline Fanti

Title of Presentation: Regional Orthopaedic Program

We have no financial or personal relationship related to this presentation to disclose.





Introduction to Regional Orthopaedic Services Program Planning



Background: Provincial Challenges

Population aging

 Ontario's seniors (65+) population is expected to double from approximately 15% to 30% over the next twenty years (Sinha, 2011)

Fiscal constraints

 Health spending currently accounts for approximately 40% of the provincial budget, if grown at current rate, \$24 billion required by 2030

Maintenance of access to required services

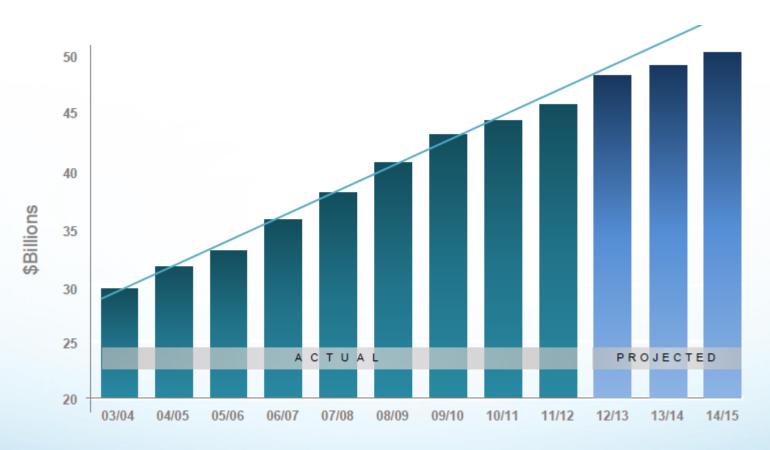
 Canada wide, despite a 15% increase in total hip & knee replacements carried out between 2010 and 2012; the percentage of procedures completed within target decreased by 4% (CIHI, 2013)

Need to look for ways to become more efficient within our current means

There is an opportunity to develop a fully integrated regional model for orthopaedic services



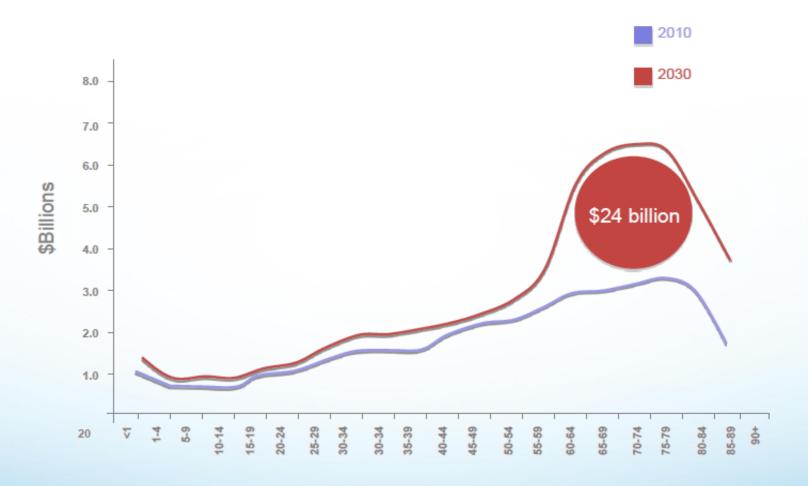
Ontario Health Care Spending Since 2003



Source: Ontario's Action Plan for Health Care



Health Costs by 2030



Source: Ontario's Action Plan for Health Care



The Case for Change

- Ministry of Health and Long Term Care interest in advancing access and quality in orthopaedics – introduction of Quality Based Procedures and "bundled care".
- North West LHIN is currently not meeting wait time targets for hip and knee replacement surgery.
- Over the next twenty years the North West LHIN can expect demand side pressures driven by population aging, poor health status and osteoarthritis rates, and population aging.
- Canada wide, despite a 15% increase in total hip & knee replacements carried out between 2010 and 2012; the percentage of procedures completed within target decreased by 4% (CIHI, 2013).
- There is a unique opportunity to develop a fully integrated model for orthopaedic services.



Integrated Orthopaedic Capacity Plan

- The Integrated Orthopaedic Capacity Plan (IOCP) was mandated by the MOH as the first in a series of detailed capacity plans with four key objectives:
 - Resource/capacity planning across the continuum of care
 - Achieving/maintaining access and quality targets, Orthopaedic Quality Scorecard and LHIN-level Wait Time Strategy targets
 - Planning to ensure that necessary services and access to care in other related service areas are not impacted by the introduction of the Quality Based Procedures (QBP)s
 - Planning for out-year (Year 2/3) Orthopaedic QBPs



Integrated Orthopaedic Capacity Plan

In the North West LHIN there is an opportunity to align the implementation of the IOCP and QBPs with the Health Services Blueprint

 The analysis of current state and volume management approach fits with the service delivery model framework identified in the Blueprint

Overview of Quality Based Procedures

- Quality Based Procedures (QBPs) are a key component of Health System funding Reform
- Procedures which were previously funded through global budgets and Wait Time Strategy funding will now be funded at a fixed, efficient price
- Fixed pricing will apply to the patient's entire journey across the continuum of care, including pre and post-operative interventions
- In this fiscal year QBPs for unilateral hip and knee replacement are being implemented, both procedures include standardized care pathways and associated pricing
- In the upcoming years there are additional orthopedic funding models including bundled payment which are planned for implementation

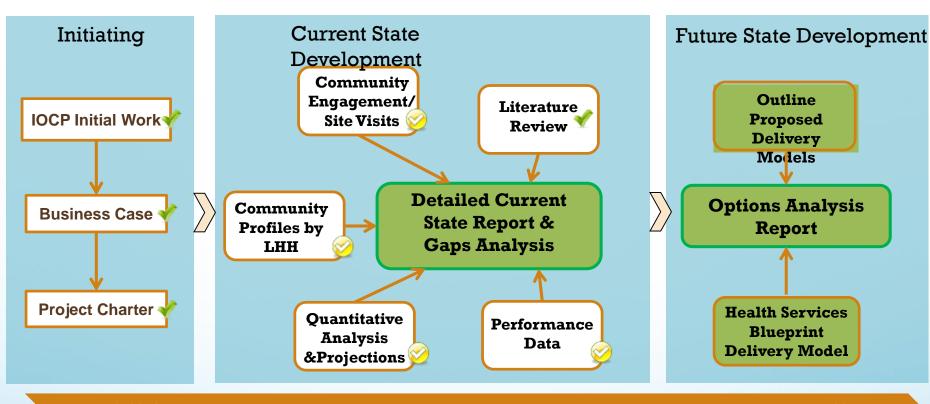


Why a Regional Approach

- Orthopaedic surgery is a high-cost, high-volume clinical group which represents approximately 25% of total surgical volume in the North West.
- Recommendation # 8 of the Health Services Blueprint specifies that selected high cost/high impact programs should be developed as regional programs – this includes surgical services.
- A regional approach implies an integrated approach including collaboration, partnership and integration of services, a seamless patient journey across the continuum of care; and components of education, evidence based practice, culturally sensitive and competent care, and continuous quality improvement.
- A regional approach does not signify a predefined delivery model.



Project Planning Approach



April 2013 January 2017



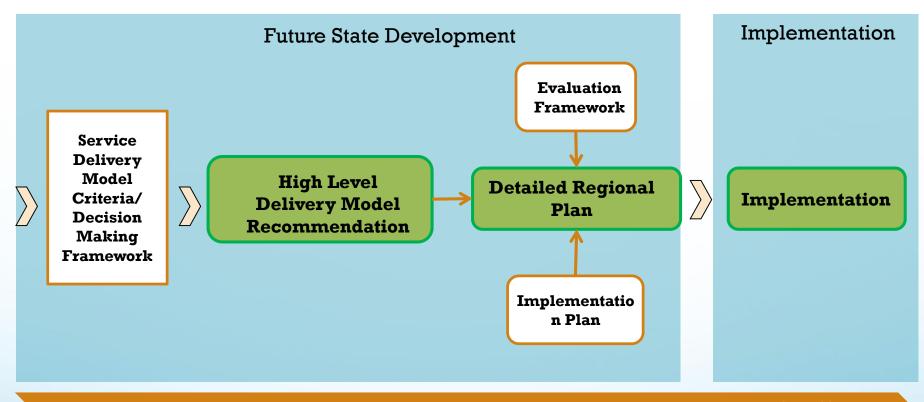
Work Completed



Work Underway



Project Planning Approach



January 2014 Sept 2017

April 2013

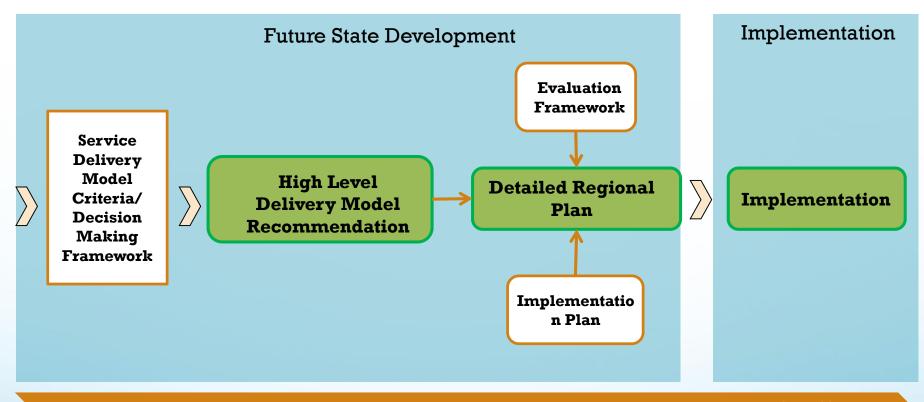


Project Governance/Desired End Point

- A skills-based steering committee with regional representation was formed.
- The desired end point of the Committee's work is:
 - The recommendation of a clearly articulated Orthopaedic Services Delivery model for the North West LHIN
- The recommended model should provide a more effective, efficient, and patient centered continuum of care for the residents of the North West LHIN.
- The Committee will achieve this desired result by agreeing on common principles as previously discussed and using these to evaluate the distinct service delivery model options.
- It is expected that because of agreement to common principles and consensus decision making, at the project end point all Committee members become champions of the selected option within their organizations and regions.



Project Planning Approach



January 2014 Sept 2017

April 2013



The Future (is not recreating the past)

- Loudest voice wins
- Most senior provider gets most resources
- Prior good service permits resource misallocation
- Almost good enough is good enough
- I know that the literature says to do this, but I do it this way
- Any body is better than no body



The Future (is not recreating the past)

- Inter professional expert panels Provincial/national
- High volume elective cases being funded on quality and outcome
- Funding following the patient
- Care pathways dictating structure of care
- Minimizing variation of outcome



North West LHIN Regional Orthopedics Program Planning Day March 20 2014

- Confirmation of Working Vision Statement
- Presentation from Subject Matter Expert, Rhona McGlassen Bone and Joint Canada
- Knowledge Café Defining and Distinguishing Between Models
- Knowledge Café Strengths and Weaknesses of Models
- Selection of Model



Model Options

Embedded Orthopedic Surgeon in each regional community

- Perceived increased support for primary care especially around fracture management
- Perceived benefit to emergency fracture patients less travel
- Very low volume caseload, high cost per unit

Traveling Surgical team

- Perceived increase experience of surgeon subspecialty trained
- Perceived lower cost per case
- Truly 24/7 support through on call surgeons
- More travel for emergency patients
- More travel for surgical team



North West LHIN Regional Orthopedics Program Planning Day Sept 2014

- Confirmation of Working Vision Statement
- Presentation from Subject Matter Expert, Dr Hans Kreder,
 Chair of Orthopedics Sunnybrook Health Sciences Center
- Provision of academic evidence supporting model selection
- Confirmation of Model Selection



Model Selected

- Centralized intake of all MSK pathology (in staged fashion)
- Traveling subspecialty surgical team to maintain the highest possible expertise for each case performed
- Increased choice for Patient pooled consent lists, first available or specific surgeon



Is There Evidence for Centralized Intake?

About 789,000 results (0.47 seconds)

Scholarly articles for evidence for centralized intake

- ... performance indicators to evaluate centralized intake ... Barber Cited by 17
- ... before and after implementing centralized intake ... Scott Cited by 10

The impact of centralized intake on access to treatment ... - Scott - Cited by 22

[PDF] Evidence In-Sight request summary: KEY COMPONENTS OF INTAK...

www.excellenceforchildandyouth.ca/file/9168/download?token=Z-hwBRLd ▼
Key components of intake and access systems. What are some examples of evaluation frameworks for centralized points of access? See Appendix A. Report context. The following Evidence In-Sight report involved a non-systematic search and summary of the research and grey literature. These findings are intended to.

Centralized intake: Best practices in mental health intake and referral ...

www.excellenceforchildandyouth.ca/.../centralized-intake-best-practices-mental-health...
This report explores best practices for centralized intake including matching services to community needs and client preferences.

[PDF] Best practices in mental health intake and referral - Ontario Centre of ...

www.excellenceforchildandyouth.ca/file/9036/download?token=g3OUD6Tn ▼
Jul 4, 2011 - Intake best practices. This report was researched and written to address the following question(s):. • What does the research literature suggest are best practices in providing a centralized intake to services for child and youth mental health care? • Is a centralized point of access an evidence-informed way to ...

[PDF] Intake amalgamation best practices - Ontario Centre of Excellence fo...

www.excellenceforchildandyouth.ca/file/9382/download?token=daYNabn6 ▼
Answer search strategy. Evidence In-Sight scanned the literature using a variety of search terms for articles on Intake and best-practices. We will also refer to ... Central Intake systems for child and youth mental health services exist in several areas of Ontario and their experiences show that planning and engagement should ...

Central intake to improve access to physiotherapy for children with ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5006453/
by KDM Wittmeier - 2016 - Polytod articles

by KDM Wittmeier - 2016 - Related articles

Aug 31, 2016 - ... and their families. This study evaluates the process and impact of implementing a central intake system, using pediatric physiotherapy as a case example. ... The evidence to guide effective system reorganization in rehabilitation and specifically in physiotherapy is limited [5]. Previous studies have ...

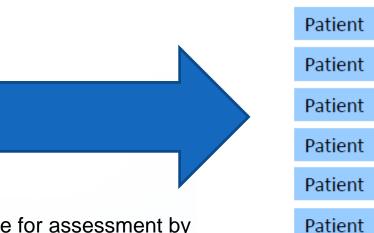


Moving to coordinated intake and assessment centre models for orthopaedic assessment

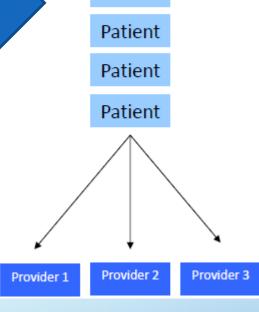
Current model in most of Ontario

Patient Patient Patient Patient Patient Provider 1 Provider 2 Provider 3

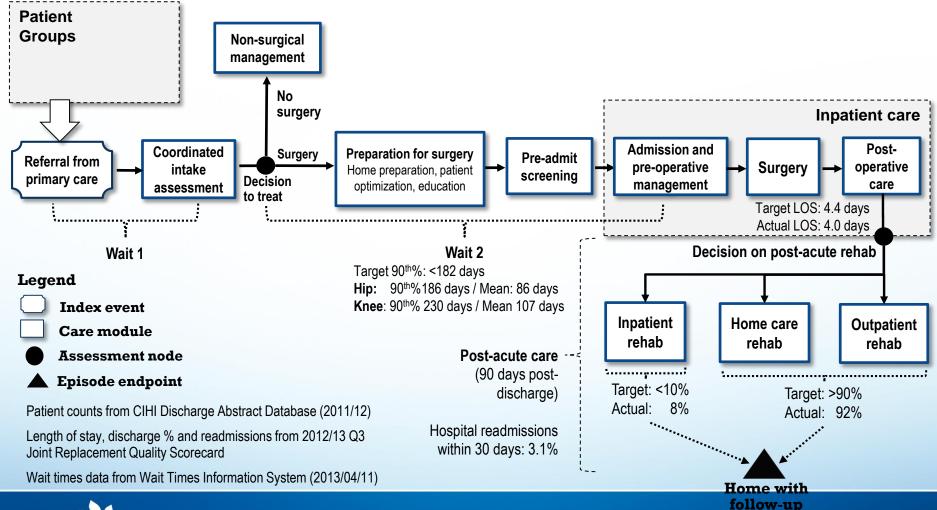




- Regional MSK patients referred to centre for assessment by allied health and triage to appropriate treatment (whether surgical or non-surgical)
- Reduces wait times and improves efficiency and appropriateness of care
- Existing Ministry-funded precedents in Ontario:
 7 regional hip/knee replacement coordinated intake centres and ISAEC model for low back pain



A visual model to hang it all together: An evidenced based pathway





healthy together

The Future (is not recreating the past)

- To accomplish goals reorganization/retooling/real integration needed
- Absolutely need to understand each clinical group's perspective of their local need
- Change our perspective to inclusiveness/inter professionalism
- Train to fight the next war, not the last war



The Future: Going to be different from now

- Increased the presence of Orthopedic surgery/medicine in region (surgeon and APC) - hiring more academic orthopedic surgeons, training more APC
- improved coverage (especially in each subspecialty area)but not 24/7/365
- professional and institutional growth (case load and variety)
- improved patient choice
- maximizing tertiary subspecialty exposure in region



The Future: Going to be different from now

- Embrace change (faces and locale and clinician type)
- Acknowledge that we can't stay the same or go backward in attitude: the silo is dead
- Acknowledge that we must institute processes that ensure that provincial and national academic standard of care goals are achieved
- Acknowledge that we should not create a service delivery model that creates a standard of care unique to the northwest LHIN unless it is exemplary



VISION STATEMENT

"To improve the health of the orthopedic patient population in the North West LHIN by delivering high quality, accessible, financially sustainable care and service in an integrated and organized manner."



THE PAST - PROBLEMS

Access to orthopaedic care was:

- Inequitable
- Uncoordinated
- Inefficient
- Not timely
- Not close to home
- Not sustainable



THE PAST - PROBLEMS

- Chaos referral patterns
- Standardized referral process only for hip/knee
- Inappropriate imaging
- Inequitable access to care across the region
- Efficiency disparity across OR sites
- Care not Close to Home



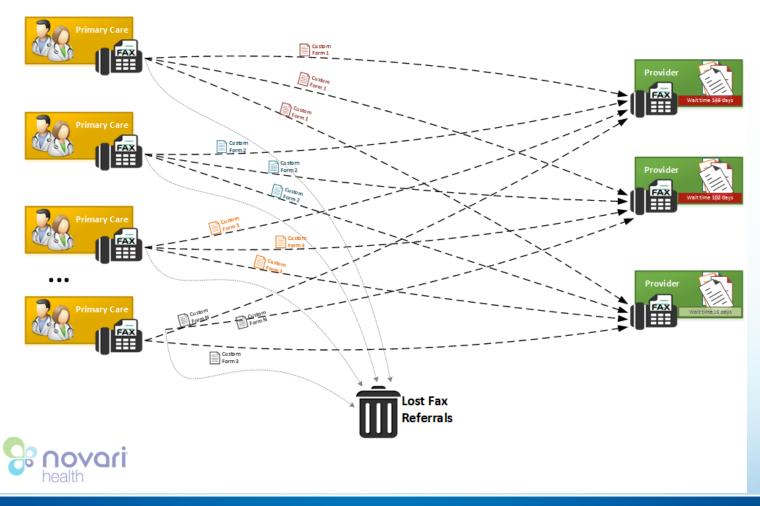
THE FUTURE - SOLUTIONS

What we need: Alignment with HQO dimensions, benefit for patients, payers, providers and the health care system

- Inter-disciplinary approach for all MSK
- Standardized processes for all MSK
- Standardization across continuum of care

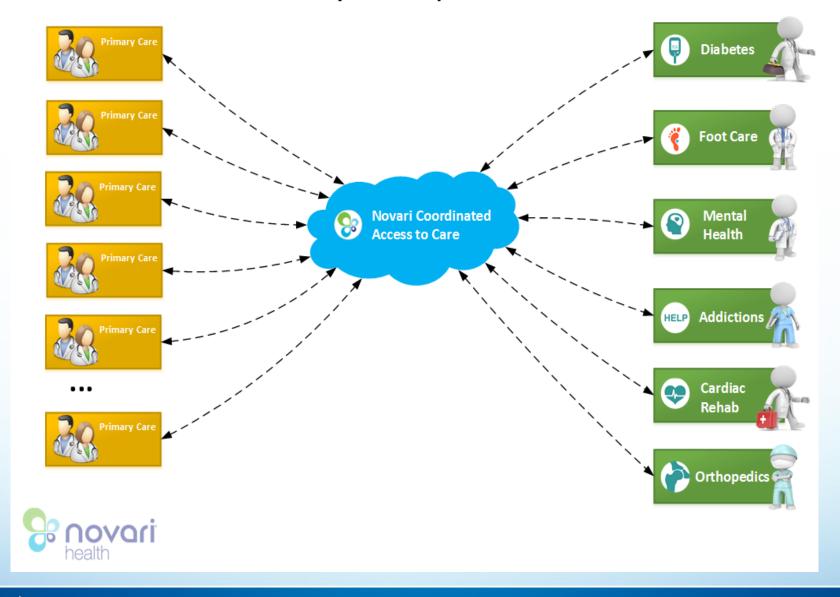


Current State: Point to Point Faxed Referrals

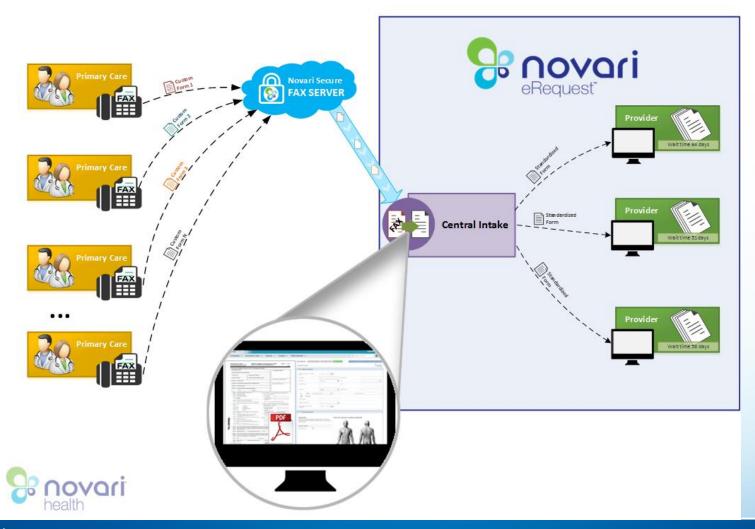




Primary Care to Specialist Care

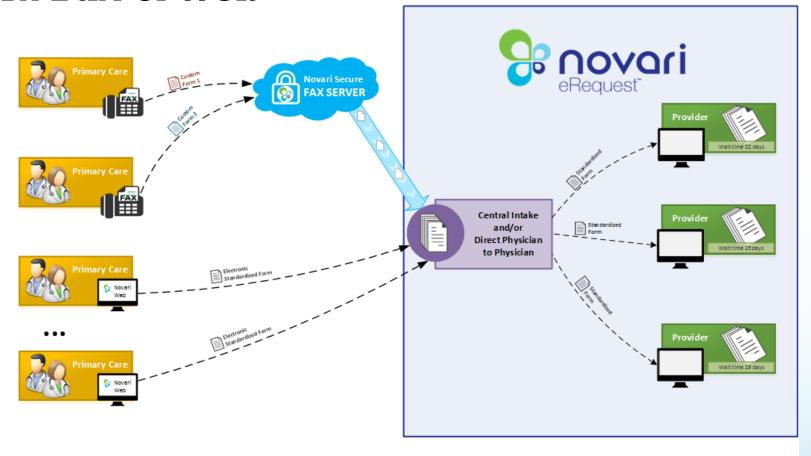


Crawl: Fax to Central Intake





Walk: Fax & Web







BENEFITS

Complete & Appropriate Referrals

Regional standardized electronic referral forms

Know Where to Send a Referral

➤ Novari eRequest provides an accurate list of appropriate referral destinations and their wait times

Know the Status of Every Referral in Real Time

The Novari eRequest® module displays the status of each referral (i.e. sent, received, accepted, declined, scheduled, etc.) as it moves through the system.



BENEFITS

Load Balance Demand Across Resources

The Novari eRequest system is capable of both direct – point A to B – referrals, and/or the routing of referrals via a central intake. Central intake staff managing a referral type(s) can then load balance demand across available providers when routing referrals.

Eliminate Inappropriate Referrals

Using built-in decision support and best practice appropriateness guidelines, inappropriate referrals can be caught up front at the time of referring.

Better Resource Planning Data

Understand in real time the appropriateness criteria, wait times, processing times, bottlenecks in the system, outcomes and demand for local resources by speciality and services.



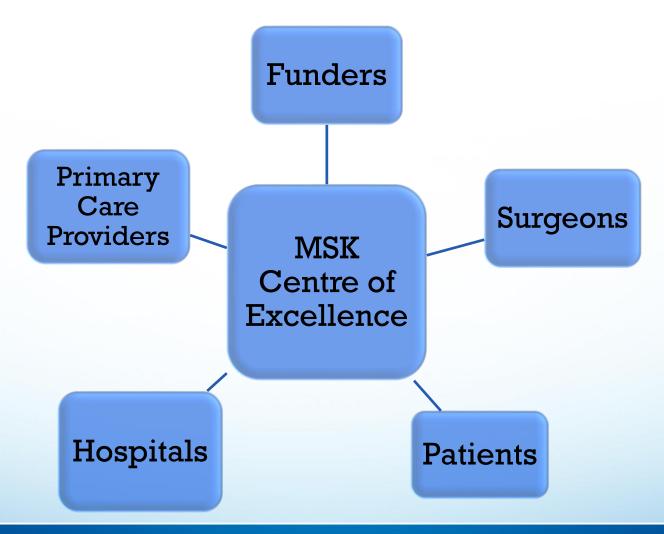
FUTURE STATE

- Leveraging a full model of Musculoskeletal Care through advanced technology and regional integration
- One program hub and spoke design with rotating subspecialty service and inter-professional care to all sites to:
 - Achieve sufficient volumes;
 - Critical mass at each surgical site;
 - Expertise required for the provision of specialized service with exemplary outcomes
- > Establish the basis for regional standardization of quality standards and monitoring, clinical pathways, equipment and referral practices.

What we will deliver: An MSK Centre of Excellence



Regional Orthopaedics Program





PATIENT NEEDS

Timely access to the full spectrum of orthopaedic services and care closer to home:

- ✓ Consultation
- Education and self management
- ✓ Comprehensive conservative treatment
- Surgical optimization
- ✓ Surgery and follow-up care
- ✓ Rehabilitation



HOSPITAL NEEDS

- ✓ To provide patient and family centred care
- ✓ Maintain surgical volumes and the associated funding
- ✓ A governance structure that allows over-sight of credentialing, regulation and competency maintenance
- ✓ Prevention of cancelled elective surgery due to over-capacity issues



MOHLTC and LHIN NEEDS

Development of an Integrated Orthopaedic Capacity Plan to:

- Deliver equitable access to care
- ✓ Provide uniform standardized quality of care that meets Provincial and National standards
- ✓ Increase system efficiencies = SUSTAINABILITY

The plan MUST align with:

- Orthopaedic Expert Panel Recommendations
- ✓ NW LHIN Health Services Blueprint
- ✓ Health System Funding Reform
- ✓ Patients First Act



PRIMARY CARE PROVIDER NEEDS

- ✓ Simplified, streamlined intake process to ensure patients receive appropriate services sooner which leads to greater patient satisfaction
- Quick and measurable referral response times
- ✓ Timely, reliable lines of communication with specialists/the program
- Additional resources for patient support and education

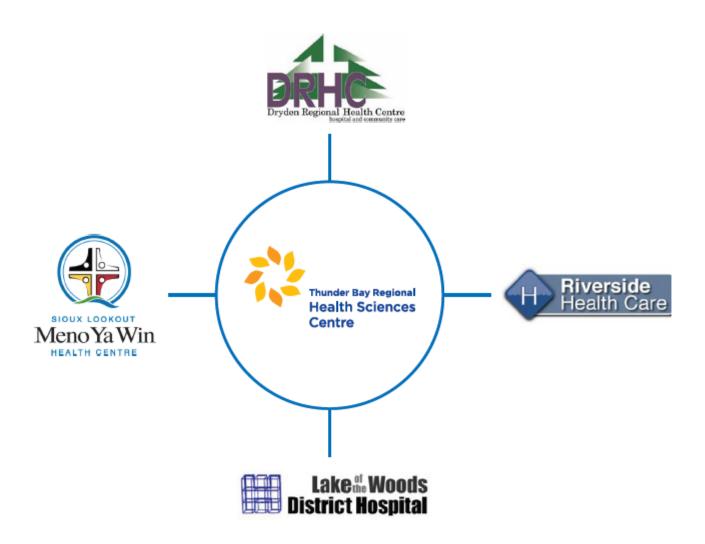


SURGEON NEEDS

- Optimal OR time to address surgical demand and meet Wait 2 time-lines
- Surgical volumes to maintain the surgeons and support staff competency with elective and nonelective cases
- ✓ OR staffing competency and operational efficiency
- Assurance of infection control measures
- Assurance of adequate equipment
- Support of primary care providers for care transfer



Regional Orthopaedic Program – Hub and Spoke Model of Care



MSK Centre of Excellence

Key Features:

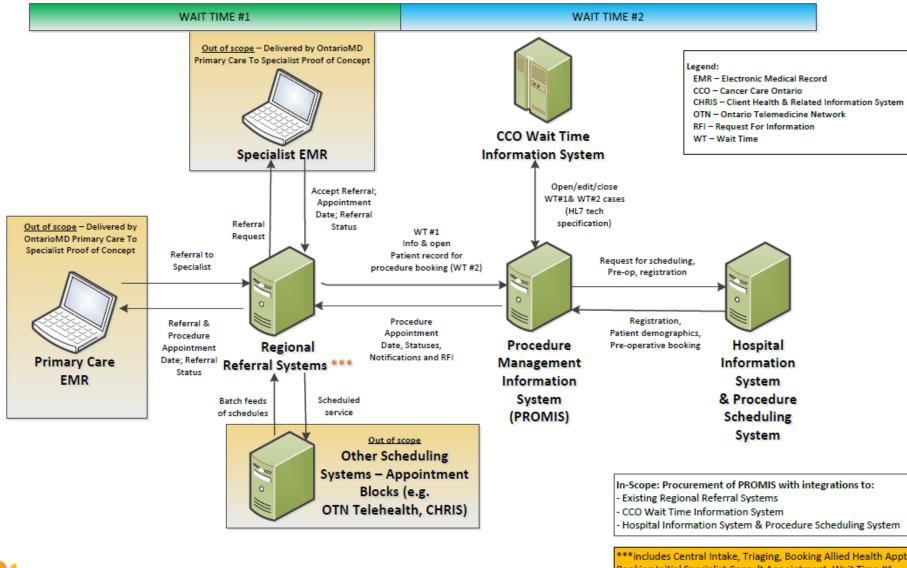
- Centralized Intake (can expand to all medical specialists)
- Real time referral status to communicate to Primary Care
- Surgeon Wait List dashboards
- Transparent wait lists across all 4 surgical sites in real time
- Inter-professional team for all MSK services
- Think Research Order Sets/Standardized Care Paths/Best Practices
- Complex reporting to CCO-WTIS

Alignment with HQOs 6 dimensions of quality:

Safe, Effective, Patient-Centred, Efficient, Timely & Equitable



Primary Care to Specialist Referral For Operating Room Procedure High-Level System Integration Diagram





North West LHIN





***includes Central Intake, Triaging, Booking Allied Health Appt Booking Initial Specialist Consult Appointment, Wait Time #1 Source

Regional Orthopaedics Program

Benefits Realization:

- Maximum Efficiency increased surgical throughput in regional facilities from 2-3 TJA/day to 4-6 (50% reduction in cost per case)
- Travel grants: savings of 90 travel grants/visit to the region. 30 visits per year. 2700 travel grants – minimum cost \$300/grant = \$810,000 cost avoidance
- Optimizing Telemedicine consults: 120 consults/follow ups per week = 1440/year = \$432,000 cost avoidance
- Total cost avoidance per year: :\$1,242,000 (minimum)

HQO Alignment: Efficient and Effective – Using resources wisely



Regional Orthopaedic Program

Alignment with Local and Provincial Strategic Directions:

- Provincial Priorities: Patients First: Action Plan for Healthcare
 - Ensure faster access to specialists
 - Provide care that is coordinated, and integrated with primary care, so a patient can get the right care from the right providers
 - Increase the use of virtual care tools to give patients more access to specialists regardless of where they live
 - Successfully implement pertinent quality based procedures across the continuum of care and ensure quality outcomes

North West LHIN 2016-19 Integrated Health Services Plan & Health Services Blueprint

- Improving the Patient Care Experience
- Improving Access to Care and Reducing Inequities
- Building an Integrated e-Health Framework
- Ensuring Health System Accountability and Sustainability
- Implement Blueprint vision of fully integrated specialty program with defined basket services at sub-region and local health hub level



SUCCESS INDICATORS

- ✓ ACCESS TO CARE/CARE CLOSE TO HOME
- ✓ WAIT TIMES
- PATIENT AND PROVIDER SATISFACTION
- RESOURCE DISTRIBUTION
- **✓ QBP TARGETS**
- ✓ QUALITY AND SAFETY
- **✓ EFFICIENCY AND SUSTAINABILITY**
- ✓ INTEGRATION ACROSS THE CONTINUUM



Regional Orthopaedic Program

HQO Alignment

A just, patient-centred health system committed to relentless improvement. Let's make it happen!





North West **LHIN**





Thank you!

