Identify and remedy gaps in quality to drive better outcomes and reimbursements.

Leverage actionable reporting and evidence-based education and training to help correct areas of low performance, improve quality of care, and boost outcomes with our Outcomes Improvement Solution.

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Pursuing Clinical Excellence With Continuous Quality Improvement

Stephen Hunter, DPT, OCS, FAPTA Pam Dibblee, DPT, OCS



Learning Goals

- Examine how to develop a learning culture to sustain quality improvement
- Explore ways to integrate data into sustained learning and training of therapists
- Identify potential gaps in clinical learning and implementation of learning into practice
- Introduce strategies to integrate clinical learning with continuous improvement



Chapter 1

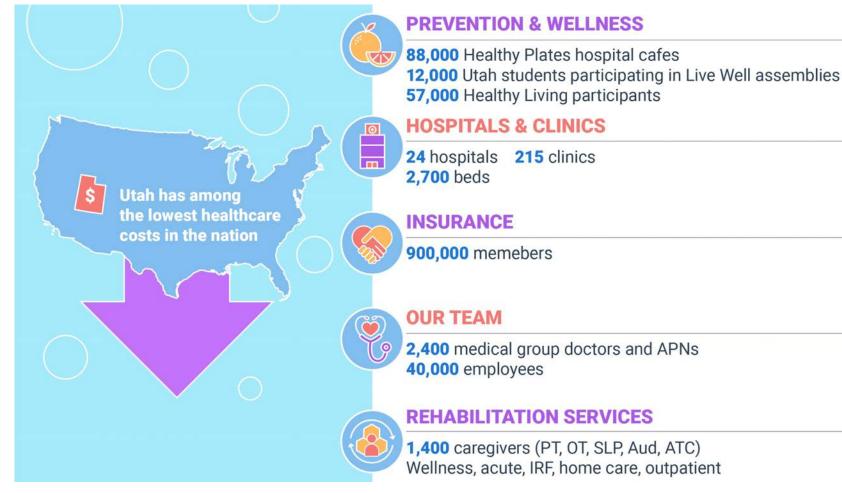
Continuous Quality Improvement and Intermountain



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Intermountain Healthcare

Not-for-profit integrated health system based in Salt Lake City, Utah





Intermountain's Learning Environment

- Culture: Brent James, MD, MStat
- Long-term focus on reducing cost
 - Currently 50% of Intermountain's business is at risk
- Measurement
 - ROMS: Rehabilitation
 Outcomes Management
 System
- Standardize processes
- Identify failures
- Continuous improvement
- Support to share (including competitors)



Rehabilitation Services Infrastructure

- Internal process control: five full-time employees (FTEs)
- Rehab services director of research
- Rehab services data analyst
- Access to statistician
- Central rehab reporting structure for all 24 hospitals, all services across the continuum of care
- The team includes physical medicine and rehabilitation (PM&R) physicians and rehab nursing



Quality Improvement

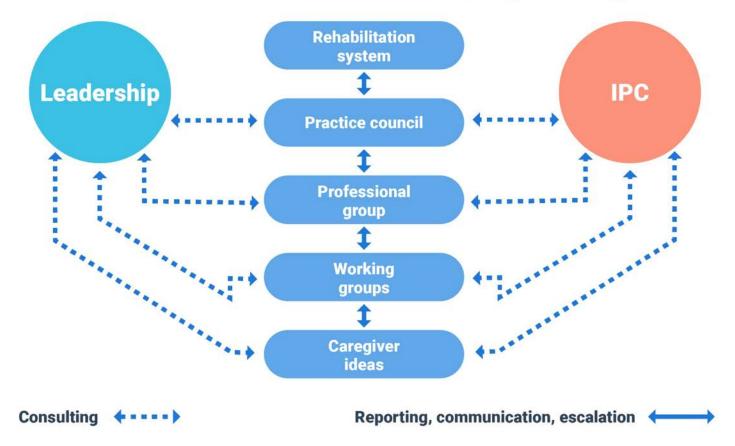
- Aligns with Intermountain's mission and key performance indicators (KPIs)
 - "Helping people live the healthiest lives possible"
 - Quality metric
- Moving toward value-based care
 - Improves care
 - Decreases cost by eliminating waste and reducing variation
- Measurement
 - If you can't measure it, you can't improve it
 - Improving failure to progress (FTP) rates
- Employee engagement through learning

Quality Improvement (cont.)

- Culture
 - Top-down (historically)
 - Most initiatives have been set by leaders and implemented by managers
 - Managers "owned the initiatives" and set the agendas
 - Bottom-up (currently)
 - Initiatives should be driven by the passion of the frontline therapist
 - Clinically meaningful and pragmatic
 - Infrastructure changes allowed for a new structure for therapist engagement, idea generation, and implementation

Practice Council Communication/ Reporting Structure

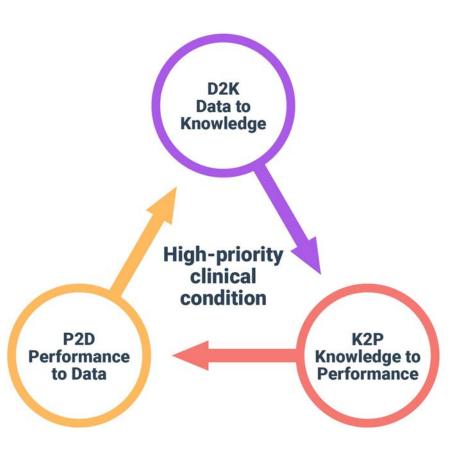
Practice council communication/reporting structure





Quality Improvement

- Led by frontline therapists
 - Increased buy-in
- Embed activity into daily workflow
 - Relevant to their population
 - Easy access to data systems and information
- Engage staff to experiment and test: idea generation
- Formation of learning communities
 - Sharing
 - Disseminating
 - Collaborating



Improvement Science

- 1. Select a high-priority clinical condition
- 2. Generate an evidence-based best practice guideline
- 3. Blend the guideline into the flow of clinical work
 - Staffing, training, supplies, physical layout, educational training materials, measurement/information flow
- 4. Embed data systems to track outcomes
 - Intermediate and final clinical, cost, and patient satisfaction outcomes
- Demand that clinicians vary based on individual patient needs
- 6. Measure, learn, and eliminate unwanted variation

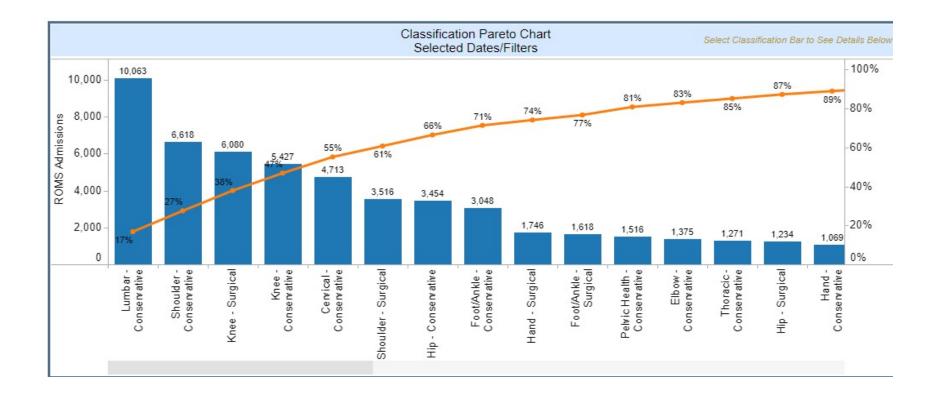
Chapter 2

Quality Improvement Best Practices



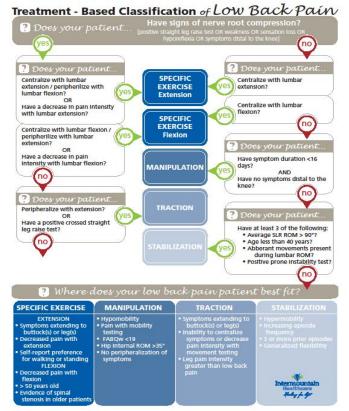
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Improvement Science: Select a High-Priority Condition: LBP



Improvement Science

Generate an evidence-based best practice guideline



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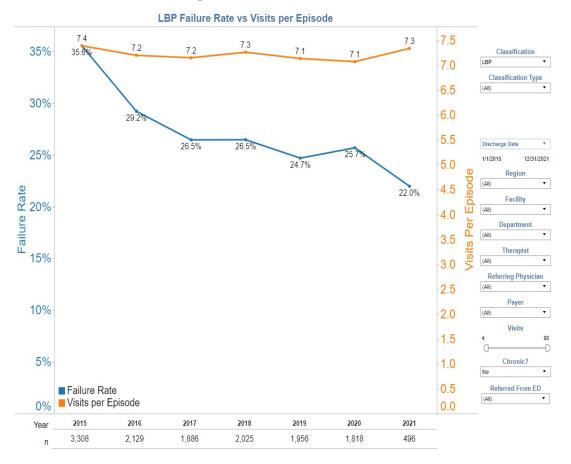
Improvement Science: Blend the Guideline into the Flow of Clinical Work

Classification Factors

Manipulation	Specific Exercise	Stabilization
Symptoms < 16 days Symptoms distal to knee Lumbar hypomobility FABQW < 19 Hip internal rotation > 35 degrees	Flexion Extension Lateral shift Centralizes with movements Directional preference - decreased pain or improved symptoms w/ movement or position	 Age < 40 years Aberrant movements w/ ARO Positive prone instabilit Average SLP ROM > 91 degr Lumbar hypermobility
Traction	Classification Comment	
Peripheralizes w/ multiple movements Sign of nerve root compression No centralization or directional preference		

Improvement Science

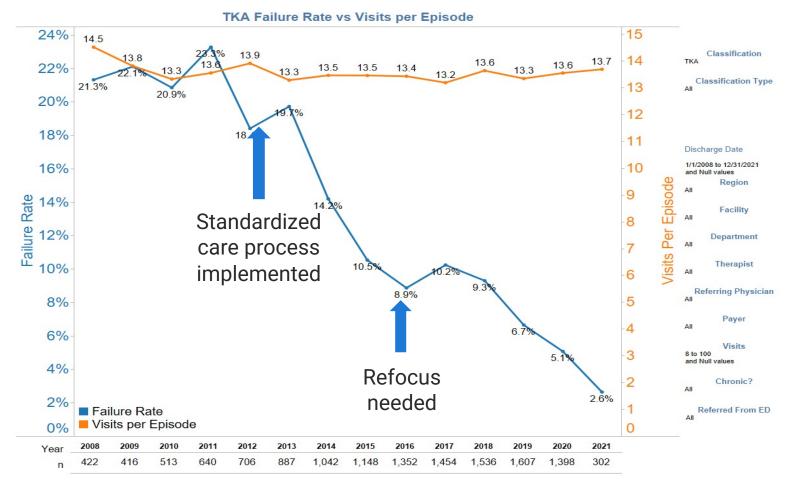
Embed data systems to track outcomes





Improvement Science (cont.)

Measure, learn, and eliminate unwanted variation



Clinical Education and Training

- Clinical improvement meetings
- Means of clinical information dissemination
 - Care processes
 - High-priority conditions
 - Areas for clinical improvement and development
- Pre-COVID
 - 90 minutes monthly
 - Lecture and one central lab location





Clinical Improvement Meeting

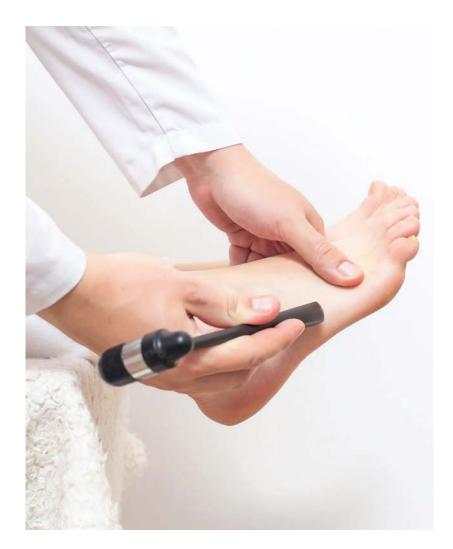
• July 2020

- 90 minutes monthly
- Lecture via teams platform
- Live local lab session
- Initially 10 therapists per site



Live Lab Sessions

- Pre-recorded lab techniques
- 30-minute review session with local lab leads prior to the session
 - Take-home points
 - Discussion topics
 - Problem-solving





Clinical Learning

- Opportunities with new structure
 - Align care across the system
 - Engage a greater number of therapists in hands-on learning
 - Allow others to mentor and lead
 - Allow therapists from across our system to interact
 - Develop resource library and build out knowledge tracks
 - Videos
 - Recordings of the meeting

August CIM-Foot and Ankle evaluation	8/20/2020
December-Ankle Sprain and Achilles Tendi	12/17/2020
April CIM-CSM presentations	4/16/2020
July CIM-Cervical Spine Mobility deficit	7/16/2020
June CIM Tendinopathy	6/16/2020
May CIM COVID and Vital Signs	5/21/2020
November CIM-LET	11/19/2020
October CIM-Planter Fasciitis	10/15/2020
General 2020 CIM PPTS NOVEN	IBER CIM-LET
Name 🗸	Modified 🗸
20 Nov 03 Lateral Elbow Tendinopathy edit	11/24/2020
LET Videos.docx	11/19/2020
Link to the web.docx	11/19/2020

Chapter 3

Case Study 1



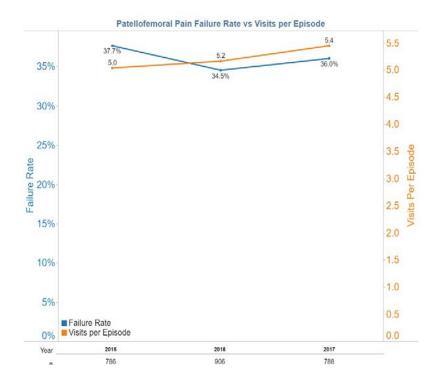
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Patellofemoral Pain

Aims

- Decrease the Failure to Progress (FTP) rate for patients with patellofemoral dysfunction (PFD)
- Develop and implement

 a standardized
 outpatient physical
 therapy care process
 model for rehabilitation
 of patients with PFD



- Review the literature
- Standardize the evaluation process
 - Identify subjective complaints, signs and symptoms
 - Identify clinically significant objective findings
- Recommend treatment based on the evidence
- Determine compliance measures
- Develop training strategies
 - One-page algorithm with supporting document
 - Clinical Improvement Meeting (CIM)
 - Videos of evaluation and treatment interventions

Determine minimal data set, based on the evidence, to drive decision-making

1. Identify Patient's Complaint Symptoms

- · Pain at the patella or directly adjacent to the patella
- Symptoms with squatting, prolonged sitting, stairs, jumping, and/or running

2. Clinical Findings

- Tenderness to deep palpation of the patella, patellar facets or patellar border not isolated to the patellar tendon or quad tendon
- Crepitus
- Decreased knee, hip and/or ankle ROM
- Hypermobility or hypomobility the of patella
- Decreased quadriceps, hamstring and/or IT-Band flexibility
- Decreased hip Strength
- Decreased quad strength
- Poor lower extremity alignment in standing
- Poor quality of movement and/or pain with functional tests

Standardize the Evaluation

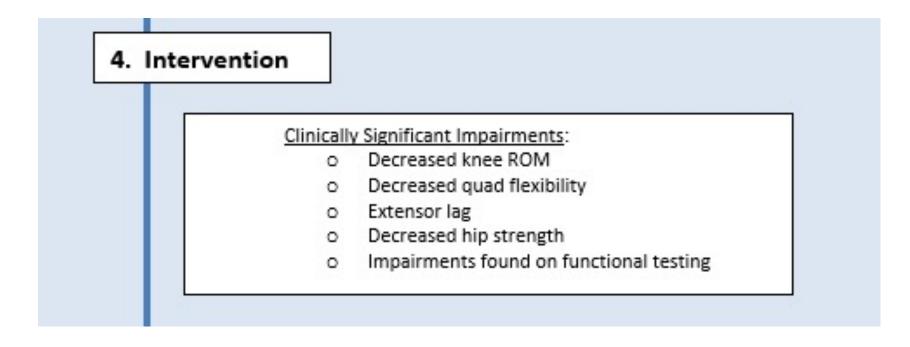
Based on the best available evidence, identify objective measures that assist in decision-making

3. Evaluate Impairments of Body Function: PT evaluation process

- Knee, hip and ankle ROM with end feel
- Patellar mobility
- Patellar palpation
- Quadriceps, hamstring and IT-Band flexibility
- Hip abduction and extension strength
- Quad strength: extensor lag
- Lower extremity alignment in standing
- Functional test reporting pain and quality of movement

Treating Clinically Significant Impairments

Based on individual evaluation findings





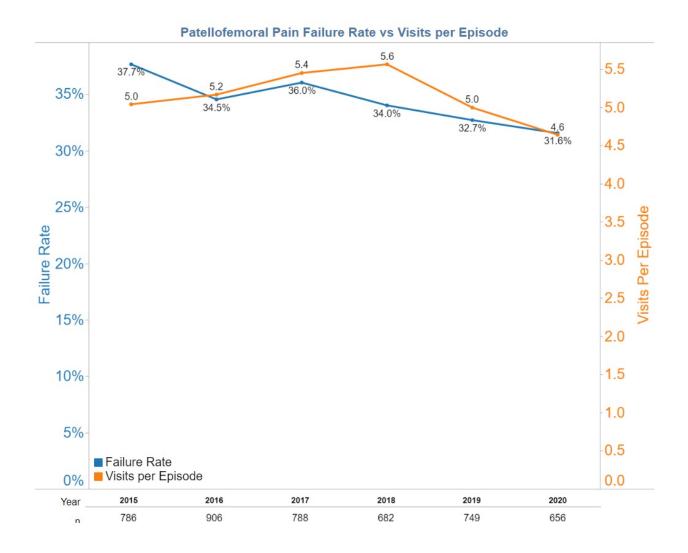
Providing Feedback

Audit Tool

Patellofemoral Pain Syndrome -			Review K	ey										
Select Health Go	oal Quality Review			Not perfo		ed in note wi	th reason no	t performed						
					Evaluatio	on Complianc	e Measures -	for all patie	ents classi	ied as PFPS	5			
Patient Name	Patient MRN	ROM of knee - flx/ext	Contraction of the second second	a second second second second second			Flexibility - Quadriceps		Strength hip ABD	l hin	extensor	LE alignment	Functional Test	Chief Complaint PFP symptoms

Treatment Compliance Measures - for PFPS patients with 3 or more visits										
Treatment of Clinically Significant	Treatment of Clinically Significant Impairment 2	Functional	Intervention - Functional Progression 2	Functional	reviewed &		100000	OT VICITE	Total Achieved	 Compliance Rate







Lessons Learned

Feedback loop

- Feedback was provided to managers and not to frontline staff
 - Method of delivering feedback to therapists was variable
- Feeding a lag measure in FTP
 - Therapists had little understanding of how to change that lag number
 - Education and training on looking at data
 - Education and training on guidelines, minimum data points



- Rewards: incentive payments
 - Ineffective in creating long-term change
 - "Strategies that focus primarily on the use of extrinsic rewards do, indeed, run a serious risk of diminishing rather than promoting intrinsic motivation"¹
 - Intrinsic motivation is a stronger predictor of performance than extrinsic
- Continuous and enduring process
 - Behavior change
 - Reflective, engaged clinician
 - Providing value
- 1. https://hbr.org/2013/04/does-money-really-affect-motiv



Chapter 4

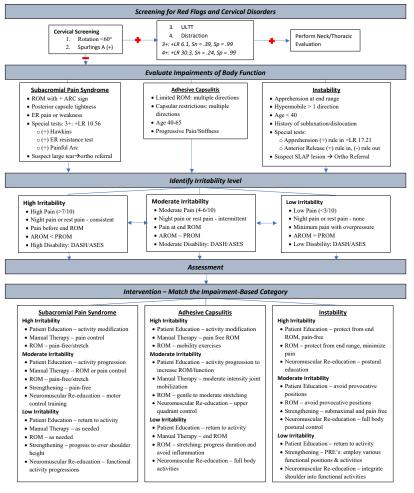
Case Study 2



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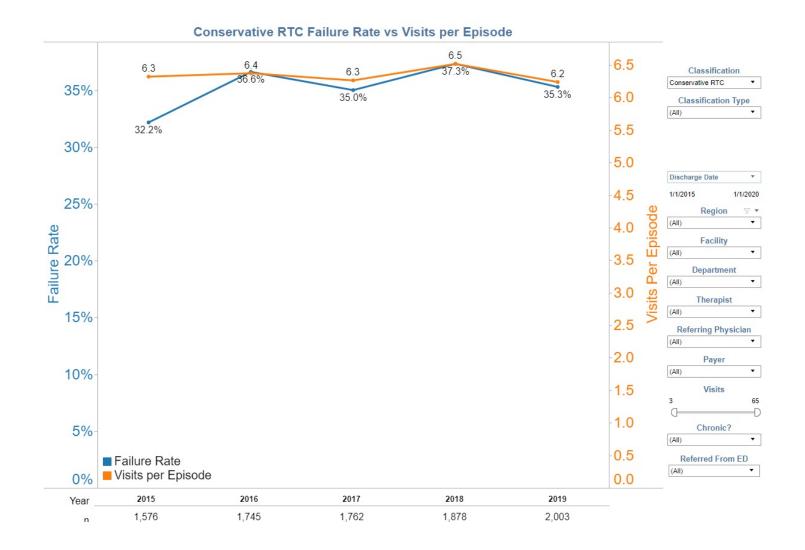
Conservative Cuff

- FTP rates
- 2018: developed care process for conservative shoulder care
- Implemented at the end of 2018
 - One-page algorithm
 - Three 90-minute education sessions
- No feedback provided other than lag measure of FTP



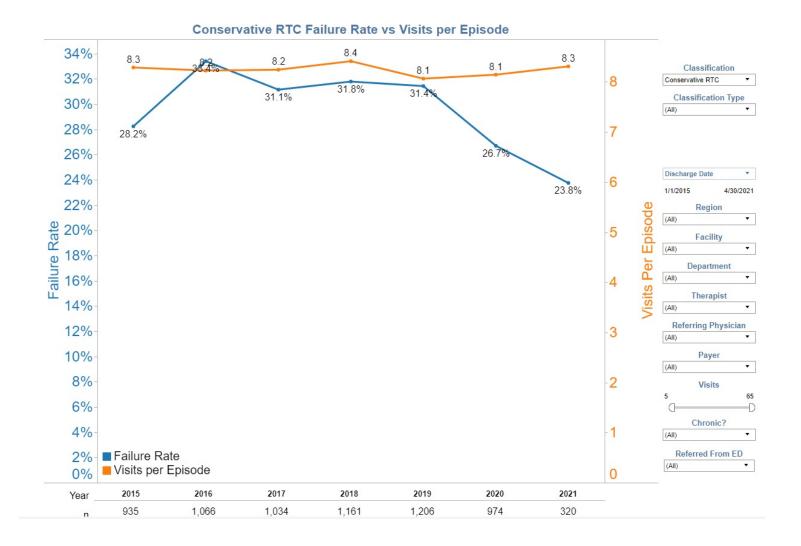
Physical Therapy Shoulder Care Process Model

Conservative Cuff (cont.)



MEDBRIDGE

- Don't assume adoption will occur
 - Lack of buy-in from caregivers
 - Resistance to use of guidelines
 - Significant increase in new-hire therapists
- Don't assume parameters used in other conditions will work for all conditions
 - Examine the data with different lenses





- Encourage idea generation and experimenting
 - Irritability

High	Moderate	Low
* High pain (> or = to 7/10) * Night or rest pain: consistent * Pain before end ROM * AROM < PROM * High Disability (DASH, ASES)	* Mod pain (4-6/10) * Night or rest pain: intermittent * Pain at end ROM * AROM ~ PROM * Mod Disability (DASH, ASES)	* Low pain (< or = to 3/10) * Night or rest pain: none * Min pain w/overpressure * AROM = PROM * Low Disability (DASH, ASES
	* High pain (> or = to 7/10) * Night or rest pain: consistent * Pain before end ROM * AROM < PROM	* High pain (> or = to 7/10) * Mod pain (4-6/10) * Night or rest pain: consistent * Night or rest pain: intermittent * Pain before end ROM * Pain at end ROM * AROM < PROM * AROM ~ PROM

- Sharing in learning communities
- Continued refinement
 - Better aligning documentation with classification system
 - Sharing with others outside of Intermountain

Summary

- Culture
- Culture takes time to develop
- "Culture will eat strategy for breakfast and structure for lunch, right? What people tend to do is develop strategy and create structure and they ignore culture, and they fail or they get nowhere close to optimal results . . .
 [but] one has to attend to all three. Most people don't know how to affect culture . . . And yet, it's fundamentally the most important component."¹





Summary (cont.)

- Select a high priority condition, blend it into the workflow, and have frontline engagement
- Track outcomes
 - Only way to tell if change is occurring
- The patient remains the focus of care

Question and Answer Session



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