

PR-COIN INFORMATIONAL RESOURCE

Pediatric Rheumatology Care & Outcomes
Improvement Network

This presentation is intended to:

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- Provide an overview of the PR-COIN Collaborative
- Introduce the approach used by PR-COIN to improve outcomes of children with juvenile idiopathic arthritis
- Review the activities of participating sites
- Describe the application process to join PR-COIN participant sites in adopting best practices in your clinic setting

Contents

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- PR-COIN goals, background, objectives, project aim and key drivers (slides 4-8)
- PR-COIN structure and approach (slides 9-14)
- PR-COIN requirements and activities (slides 15 & 16)
- Participating PR-COIN Teams - composition, and benefits of participation (slides 17 - 18)
- Next steps - Application and other actions (slide 19)
- Contact Us (slide 20)

PR-COIN Goals

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- To improve care & outcomes for children with JIA
- To do so in a multi-institutional collaborative fashion
- To utilize a sustainable national registry to study care processes & outcomes
- To apply formal Improvement Science methods to test changes, rapidly identify, and spread improvements

PR-COIN Background

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- American Board of Pediatrics invited rheumatology to an April 2008 multispecialty meeting on QI collaborative projects for Maintenance of Certification
 - CARRA leadership solicited volunteer attendees
 - Project Steering Committee (SC) formed
 - Charged to develop project charter, key driver diagram
 - Formative meeting at ABP November 2008
 - “PRINCE”- Pediatric Rheumatology Improvement Network for Clinical Excellence (and Safety) PR-COIN pre-cursor
 - Collaborative renamed PR-COIN (Pediatric Rheumatology Care and Outcomes Improvement Network)

- PR-COIN Steering Committee members join ACR JIA Quality Measures Workgroup

PR COIN History and Timeline

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July – December 2010

- ❑ Pilot Teams work with PR-COIN's Support Team to establish a web-based registry within the American College of Rheumatology (ACR) Rheumatology Clinical Registry (RCR)
- ❑ Data dictionary, data manual, data collection forms & monthly report templates developed
- ❑ PR-COIN website and extranet are established
- ❑ Teams are recruited for the larger PR-COIN Collaborative

2011 on...

- ❑ Informational webinars describing Improvement Science methods and tools were provided January – May, 2011
- ❑ Teams begin data collection once data use agreements and IRB approval obtained
- ❑ Teams share experiences during monthly Action Period Webinars
- ❑ Teams convene at biannual Learning Sessions featuring clinical and improvement science topics, to network, learn successful interventions, and innovative improvement ideas
- ❑ Teams conduct site specific process improvements related to PR-COIN goals

PR-COIN Objectives

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Overall:

- *Improved outcomes for children with JIA*

Initial measurement targets for this collaborative:

- *Proportion of patients with inactive disease will increase by 10% from baseline*
- *Proportion of patients with optimal physical functioning will increase 10% from baseline*
- *10% reduction in % of patients with pain score >3 (0-10 scale)*
- *90% of patient visits will include documentation of monitoring for toxicity of therapeutics*
 - ▶ *90% of patient visits will be in compliance with uveitis screening guidelines*

Key drivers (categories/elements) and interventions that influence achievement of these objectives form the PR-COIN Key Driver Diagram

Pediatric Rheumatology – Care and Outcomes Improvement Network

Pain Reduction Key Driver Diagram

Outcomes ← Key Drivers ← Change Concepts and Interventions

*Global AIM:
The PR-COIN Collaborative
will build a sustainable
network to improve the
outcomes of care for
children with juvenile
idiopathic arthritis (JIA)*

AIM:
By June 30, 2015
PR-COIN patients
with pain score <3
will increase from
75% to 80%

Appropriate drug
selection and
dosage

Active Joint
Control

Informed, Activated
and Engaged Patients
and Families

POPULATION MANAGEMENT (PM)

- Identify patients with pain scores ≥ 3 and with active joints (via Population Management reports of overall patient health across the practice using PR-COIN PM Tool or EMR)
- Implement processes addressing care gaps and patients/subgroups for proactive care
- Address care improvement opportunities based upon reports

CONSISTENT, RELIABLE CARE

- At each visit perform ACR JIA Quality Assessments e.g. Physician Global Assessment, Patient Reported Outcomes (pain, stiffness, functional ability) according to ACR JIA Quality Measures
- Treat per ACR JIA guidelines and CARRA consensus treatment plans
- Implement non-narcotic medication management protocols PRN

PRE-VISIT PLANNING (PVP)

- See PVP KDD interventions to prepare for pain related clinic visit needs

PROVIDE SELF-MANAGEMENT (SM) SUPPORT

- Define team and patient roles and responsibilities for (SM)
- Collaboratively set patient goals, priorities, preferences, and treatment plans (Shared Decision Making)
- Provide patient education regarding SM of medications, screenings, lab tests, activity etc.
- Confirm patient understanding and competency (e.g. teach back)
- Between and at each visit, monitor, document and discuss progress toward SM goals with patient

Collaborative Structure

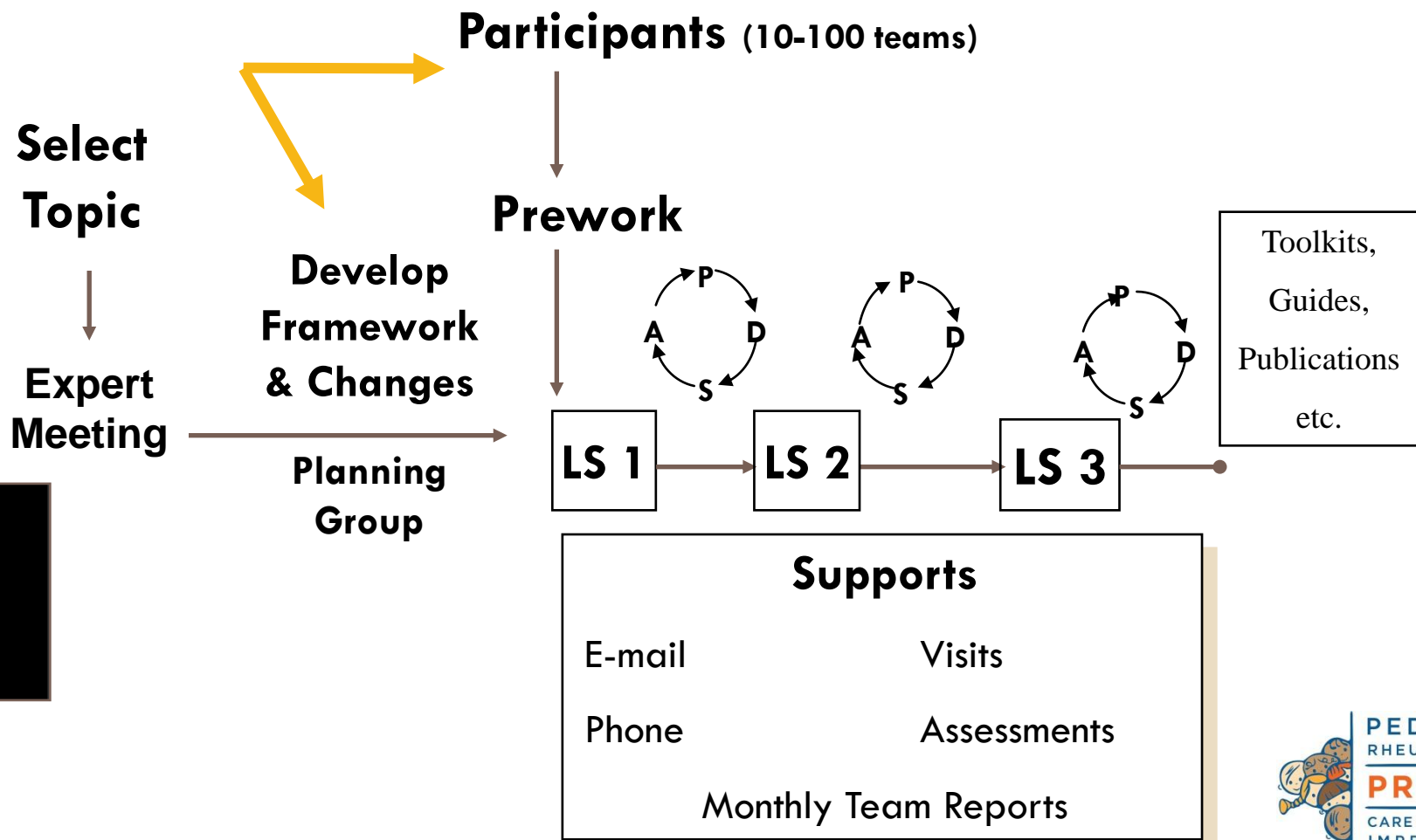
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PR COIN follows the successful Breakthrough Series approach for managing our collaborative (see next slide)

- An expert panel determines the project scope then defines the framework, measures, and interventions recommended for implementation during the project
- Participants receive training in Improvement Science concepts, methodology, and tools via periodic webinars and Learning Session workshops
- Participants implement recommended interventions at their practice site and share learning with others

IHI Breakthrough Series

An improvement method that relies on spread and adaptation of existing knowledge to multiple settings to accomplish a common aim



PR-COIN Approach: The Model for Improvement*

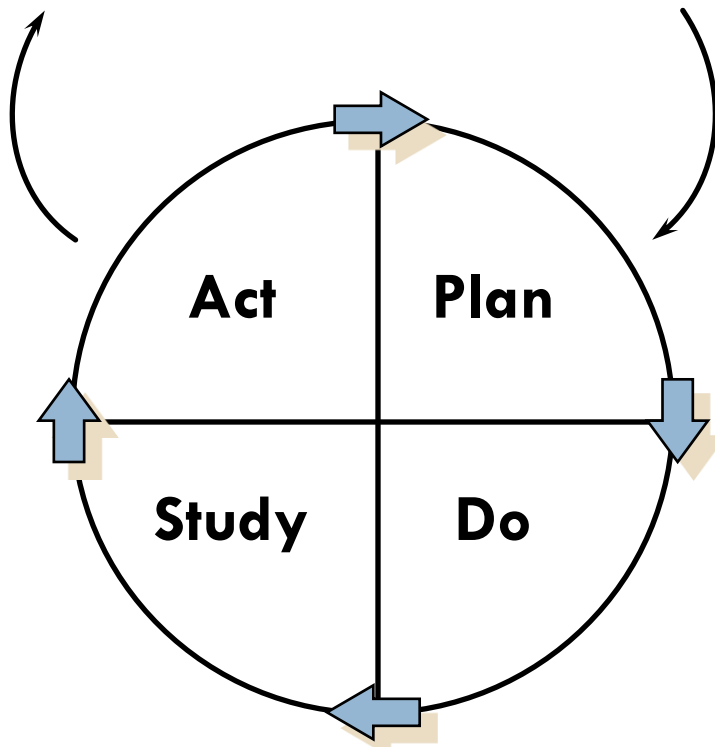
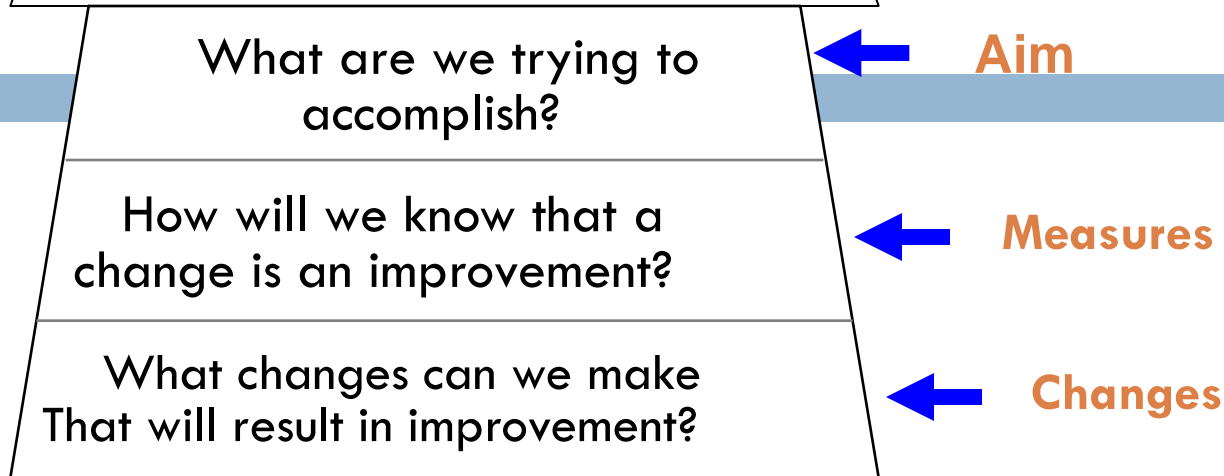
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To optimize success, we use the Model for Improvement (next slide)

- Determine an Aim
- Establish measures to evaluate success
- Identify interventions that will achieve the aim
- Conduct small scale tests of the intervention and refine the change through several test cycles

* Langley GL, Nolan KM, Nolan TW, Norman CL, Provost LP. The Improvement Guide: A Practical Approach to Enhancing Organizational Performance.

Model for Improvement



P – D – S – A

Sequential small tests of change

Model for Improvement

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Small Tests of Change

- Teams carefully plan for and customize Key Driver Diagram recommended interventions using Improvement Science methods
- Teams then perform small tests (pilots) within their practice work setting (PDSA)
- These small tests minimize disruption of normal activity but help indicate their potential effectiveness should full implementation of the change be made
- Successful changes are spread to further evaluate their value

PR-COIN Teams

Pediatric Rheumatology Care and Outcomes Improvement Network



Team Requirements

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- Participation in collaborative improvement activities
- Willingness to test new approaches intended to improve patient outcomes and clinic site processes
- Perform data collection and reporting
- Data entry capacity
- Attend webinars and learning sessions:
 - ▣ share learning from data analysis and make changes
 - ▣ discuss the key driver interventions in detail to learn about best practices
 - ▣ share tools, documents, protocols, and expertise

PR-COIN Activities

- Make application
- Obtain approval from your IRB
- Secure data use agreements
- Participate in monthly Action Period Calls and biannual Learning Sessions
- Share successful tools, ideas, documents and approaches with member teams
- Submit data and team progress reports monthly

Suggested Team Composition

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- Core team: rheumatology clinician, nurse and administrative staff member
- Additional potential members: Executive Sponsor, clinicians, fellows, parent, physical or occupational therapist, social worker, additional staff as feasible to support data entry and improvement activities

Benefits of PR COIN Participation

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- Potential for improved outcomes in your JIA population
- Affiliation with Rheumatology experts across the country working collaboratively to improve care for children with JIA
- Contribution to registry database focused on children with JIA – oriented to improving care
- Maintenance of Certification credit for Rheumatologists meeting requirements
- PR-COIN activities may align with your local institutional initiatives for quality and patient safety

Next Steps

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- Review application, discuss interest in participation with PR-COIN coordinating team
- Discuss and communicate project requirements to key stakeholders at your site to secure their support
- Identify your team members
- Make application
- Request IRB approval
- Participate in Webinars
- Plan to attend Learning Sessions

Questions ?

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Visit our website <http://pr-coin.org>

Contact Us at: pr-coin@cchmc.org