

Pediatric Rheumatology Care & Outcomes Network

PR-COIN



Participating Sites

- Boston Children's Hospital
- Children's of Alabama
- Children's Hospital of Philadelphia
- Children's Mercy Hospital
- Cincinnati Children's
- Cohen Children's Medical Center of New York
- Hackensack University Medical Center
- Hospital for Special Surgery
- Levine Children's Hospital
- McMaster Children's Hospital
- Medical College of Wisconsin
- Medical University of South Carolina
- Nationwide Children's Hospital
- Nemours—Orlando
- Penn State Hershey Children's Hospital
- Phoenix Children's Hospital
- Texas Children's
- The Hospital for Sick Children
- Stanford Children's Health
- University of Minnesota
- University of Mississippi

74%
of PR-COIN patients report a low pain score (<3)

98%
of PR-COIN patients receive physician global assessment

About PR-COIN

We harness the collective will, ideas, and experience of parents, patients, and providers to develop and implement new and comprehensive care practices and measure impact using a shared registry. The combined power of our member hospitals and our families yields data, knowledge and perspective that no one clinic could have alone.

Our improvement activities are designed to increase remission and clinical inactive disease rates among children with JIA, improve quality of life including optimal physical function and pain, and support families in managing their child's condition.

Our members are trained in Improvement Science methods and use of Quality Improvement tools.

They learn to evaluate their performance, compare it to the network's overall results, and identify gaps in care.

They interact with their peers through monthly webinars and bi-annual conferences to learn best practices, share ideas, and test and implement changes within their environment that have a direct impact on their patients' outcomes.

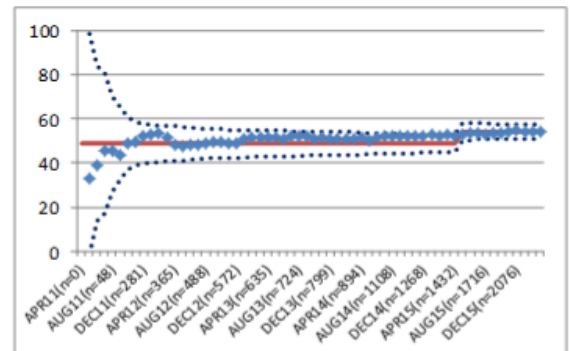
They collaborate directly with parents and patients at their site as well as nationally, and together develop in-clinic materials that increase our implementation strategies' impact and sustainability over time.

Real Improvement

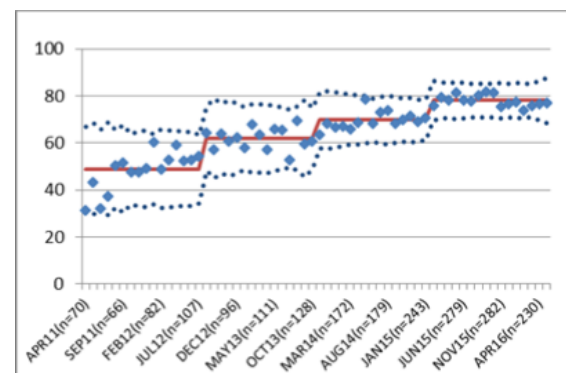
PR-COIN member centers have improved performance in many measures including care delivery processes and health outcomes for children with JIA.

Examples:

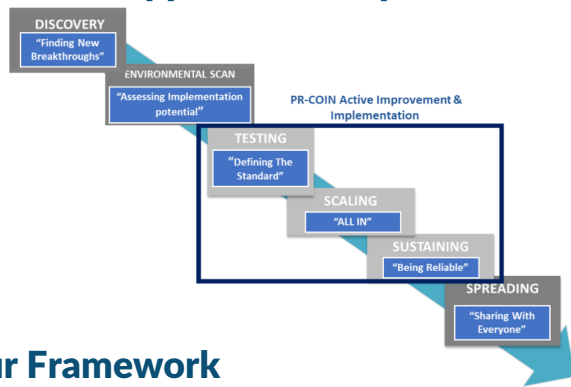
Percent of oligoarthritis or polyarthritis patients with either inactive or low disease activity by cJADAS10



Percent of patients on non-biologic DMARDs with toxicity labs performed



PR-COIN Approach to Improvement and Implementation



Our Framework

We use the Model for Improvement (Associates for Process Improvement*) and the Breakthrough Series approach (IHI**), with bi-annual conferences (“learning sessions”) and monthly “action period” webinars during “activity period”, to organize our activities.

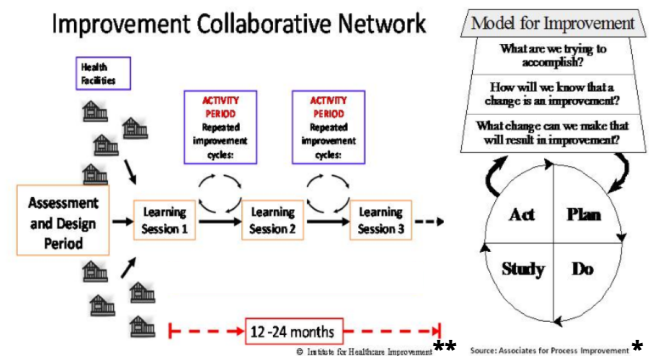
Following this model, we have been able to implement the following approaches and interventions:

- **Treat to Target:** we have developed a set of tools and training materials to reliably implement Treat to Target concepts including shared decision making, standardized cJADAS assessment, target identification, and care algorithms with the goal to standardize the use of treatment protocols, and increase the number of patients in low disease to no disease activity.
- **Shared Decision Making:** PR-COIN supports family needs and preferences during treatment decisions through use of shared decision making tools that address concerns important to families such as mode of medication administration, side effects, how soon it takes effect, cost, etc. Materials were co-produced with parents, making them an effective and credible guide for providers, families, and patients.
- **Self-Management Support System:** Our Self-Management Support (SMS) System provides tools for assessing family SMS readiness and barriers to adherence, and supports behavior change counseling. All materials were built with active involvement of patients and caregivers, including the patient education and barrier-specific Adherence Solution Tools.
- **Population Management (PM) Tool:** Thanks to a PCORI grant, we are currently designing a PM tool that will be available on demand through our registry. Population Management allows centers to better stratify their patient population and immediately identify and care for patients at risk.
- **Pre-visit Planning (PVP) Reports:** Our PVP reports summarize key patient information and ensure pre-requisites for patient visits (lab tests, screenings, and others) are met before the encounter.

While PR-COIN is involved in every step of the journey to implementing research in practice, our core expertise lies in Testing, Scaling and Sustaining successful implementation strategies:

- **Testing:** subgroup of centers actively collect data and implement quick tests of change to identify best practices, and bundle of care practices that statistically demonstrate outcomes improvement.
- **Scaling:** All PR-COIN centers implement the new bundle, submit data to the registry, review performance reports, participate in webinars and conferences, and receive training/coaching. Bundle is finalized to keep implementation strategies that are proven to scale.
- **Sustaining:** All PR-COIN centers focus on increasing process reliability levels and monitor data over time.

Accelerate Testing, Learning & Improvement



Benefits of Joining PR-COIN

- Ability to evaluate performance on measures of clinical processes and disease outcomes (center, provider, and aggregate level).
- Shared population registry supports clinical care, improvement and research.
- Electronic data transfer, including Epic SmartForm data upload option, automated reports and decision support
- Maintenance of Certification Part 4 (active and eligible providers).
- Access to clinical tools (Pre-Visit Planning Report, Population Management Report, algorithms, etc.).
- Ongoing training and personalized coaching in Improvement Science methodology and tools.
- Ongoing learning through monthly Network-wide webinar calls and bi-annual face-to-face conferences with rheumatologists, parents, patients, and QI experts across the US and Canada.
- Exclusive access to knowledge repository of best practices and lessons learned.

