



## **Improving Renal Outcomes Collaborative (IROC)**

**About Us:** IROC was founded in 2016. There are 43 participating centers and 60% of US Kidney transplants in 2022 were performed at an IROC center. IROC has 518 participants including 139 physicians/researchers, 294 team members (e.g., nursing, administrative and research), and 85 parent/patients. IROC's registry has over 4,200 registered patients. For more information: [www.irocnnow.org](http://www.irocnnow.org)

**Our Vision:** To partner with patients with kidney disease and their caregivers to achieve health, longevity and quality of life equivalent to the general population.

### **Our Goals:**

- Reduce rejection of Kidney Transplant
- Improve systolic blood pressure control
- Improve outcomes and improvement capability via the pathway to mastery framework
- Develop our capability to use data for research

### **Exciting Work:**

- Reducing rejection rates by addressing barriers to medication adherence
- Advancing current and future QI work through Learning Labs
- Using the Outcomes registry to demonstrate improvements and clinical decision making
- Leveraging the network and infrastructure for research studies

### **Summary of Core Strategic Priorities:**

IROC has focused on addressing elements of its "Optimal Outcome" framework, a composite metric of clinical health measures. Currently, IROC is dedicated to three specific priorities:

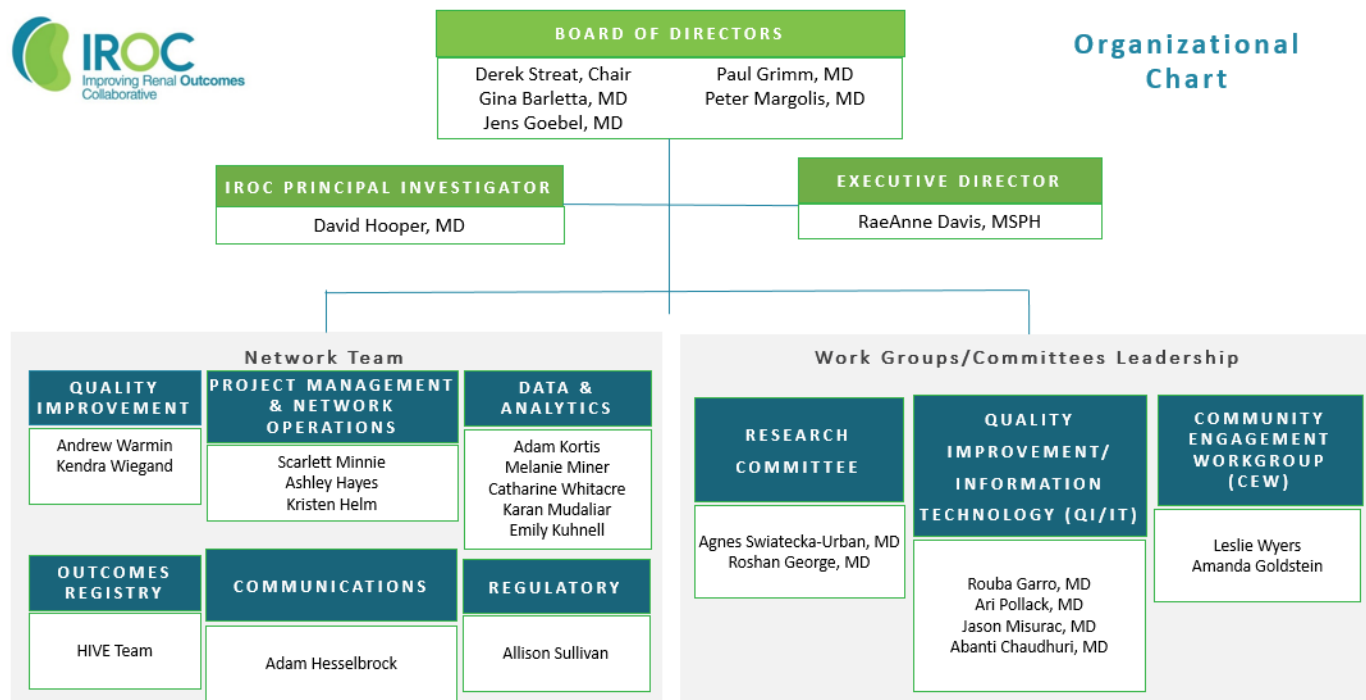
- Increasing appropriate blood pressure measurement and control
- Reducing acute allograft rejection
- Improving quality of life for patients and caregivers

**Leadership & Project Teams:** [Network Team — IROC - Improving Renal Outcomes Collaborative \(irocnnow.org\)](http://www.irocnnow.org)

### **Network Structure (e.g., org chart):**



## Organizational Chart



### Network Toolkits & Change Packages:

- IROC employs the Pathway to Mastery structure in guiding sites through levels of data documentation and quality improvement initiatives. There are currently three levels along the pathway. These groups meet monthly to work through change packages and achieve metric goals in order to advance to the next group along the pathway.
  - Reliable Measurement
  - Achieving Improvement
    - Blood Pressure Control Change Package
  - Reducing Rejection
    - Reducing Rejection Action Plan Change Package
- Tools provided to site teams
  - SMART AIM worksheet
  - Key Drivers Diagram
  - Plan, Study, Do, Act (PDSA)
  - Pareto Chart
  - Process Flow Diagram
  - Run Charts
  - Simplified Failure Mode Effects Analysis (sFMEA)
- IROC offers training opportunities for sites beginning their journey as well as continuing to push their quality improvement initiatives to the next level:
  - Quality Improvement Fundamentals: Fundamentals Pathway
  - Behavior Based Training (BBT): Reducing Rejection Pathway
  - Continuing Education: MOC Part 4



### Measures:

Project Name	Measure	Measure description
Blood Pressure Control	Increase % of visits where patients have controlled systolic BP	Percentage of visits in the reporting month where the patients had controlled systolic blood pressure
Rejection of Kidney Transplant	Increase % of pts with Adherence Barrier Assessment	The percentage of patients with clinic visits who received the BAT as indicated
Rejection of Kidney Transplant	Decrease rate of late rejections	Rate of Late Acute Rejection per 100 patient months

### Description of Data Repository (e.g., # patients, etc.):

- The number of patients in the registry – 4,466
- The number of cumulative verified visits – 42,076
- The percentage of children receiving kidney transplants in the US – 61%
- The percentage of children with controlled blood pressure across the network – 86%
- The number of pediatric centers in the US participating in IROC – 44

**Funding Sources:** The primary source of IROC's revenue is from site fees. There is also anticipated revenue from research opportunities, industry sponsors (for example, several industry sponsors have contributed funds to support our in person learning session), and philanthropy.

**Publications:** [Publications — IROC - Improving Renal Outcomes Collaborative \(irocnow.org\)](http://irocnow.org)

**Additional resources you identify:**

**Site List/Geographic Spread:**

Acension Seton Research Enterprises
Ann & Robert H. Lurie Children's Hospital of Chicago
Arkansas Children's Hospital
Atrium Medical Center
Boston Children's Hospital
Children's Healthcare of Atlanta - Emory University
Children's Hospital & Medical Center of Omaha
Children's Hospital New Orleans
Children's Hospital of Philadelphia
Children's Hospital Colorado
Children's Memorial Hermann Hospital
Children's Mercy Kansas City
Children's National Medical Center
Cincinnati Children's Hospital Medical Center
Cleveland Clinic Children's
Cohen Children's Medical Center of NY
CS Mott Children's Hospital
Children's of Alabama
Driscoll Children's Hospital
Helen DeVos Children's Hospital
Dell Children's Medical Center of Central Texas
Johns Hopkins All Children's Hospital
Johns Hopkins Children's Center
Joseph M Sanzari Children's Hospital at Hackensack Meridian Health
Le Bonheur Children's Hospital
Levine Children's
Lucile Salter Packard Children's Hospital at Stanford
Monroe Carell Jr Children's Hospital at Vanderbilt
MonteFiore Medical Center
MUSC Children's Hospital
Intermountain Primary Children's Hospital
Nemours Alfred I. DuPont Hospital for Children
Nemours Children's Hospital
New York-Presbyterian Morgan Stanley Children's Hospital
Medical University of South Carolina
Phoenix Children's Hospital
Riley Hospital for Children at Indiana University Health
Nationwide Children's Hospital
SSM Health/Cardinal Glennon Children's Hospital

St. Louis Children's Hospital
The Children's Hospital at Montefiore
The Children's Hospital of Philadelphia
UCLA Mattel Children's Hospital
UCSF Benioff Children's Hospital San Francisco
Seattle Children's Hospital
University of Iowa Hospitals and Clinics
University of Minnesota Masonic Children's Hospital
University of Virginia Children's Hospital
UPMC Children's Hospital of Pittsburgh
UH/Rainbow Babies & Children's Hospital



## Maturity Scores- Jan 2023

