

JUNE 3-6, 2019 • PHILADELPHIA • #BI02019



Why Pediatric Clinical Trial Networks?

Current Challenges to Run Global Paediatric
Interventional Clinical Trials

July CHILD

Child Health Innovation Leadership Department

Sam Maldonado June 5, 2019

As a Society We Have Work To Do...

Over 50%

of medicines used to treat children have not been studied in children



Over 90%

of them have not been studied in infants



Different Doses, Different Formulations









Small Populations and Sub-Populations

At least Five Pediatric Sub-Populations

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Preterm Newborn Infants	Term Newborn Infants	Infants and Toddlers	Children	Adolescents
Pre-term	0-28 days	29 days to 23 months	2 Years to 11 Years	12 Years to 18 Years

- Heterogenous population
- Low incidence of diseases
- For each sub-population, separate clinical studies are often required
- Eligibility criteria further narrow the pool eligible to be enrolled in a study

Adult vs. Pediatric Trial with the Same Anti-hypertensive

Adult	Pediatrics		
	(6-16 y/o)		

- N = 220 subjects
- Countries: One (USA)
- No. Sites: 9
- Study time: 5 months
- 24 subjects per site

- N = 253 subjects
- Countries: Three
- No. Sites: 70
 - Study time: 1 year
- 3 5 subjects per site

Thank you to Dr. Ron Portman for providing this example

erience

Opportunities for Efficiency

Efficiency lowers R&D investment and increases likelihood of success



1-2 Years



Aligning CDA,

Contracts and

have a single ICF

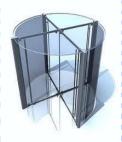


Minimize Protocol Amendments





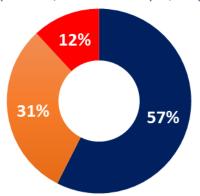
Staffing Consistency



Paediatric Trials – Still Struggling

Status of PIP Completion Snapshot as of June 2017 N = 261 PIPs

Source: Adapted from EMA Annual Report to the European Commission dated April 2018, J&J CHILD Analysis, May 2019



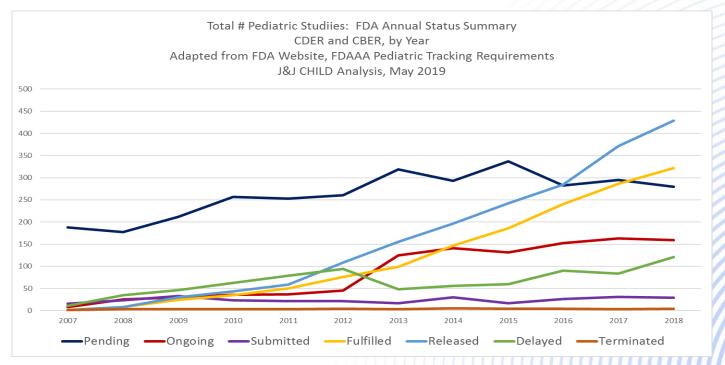
- PIPs Completed On Time
- PIPs Not Completed On Time (Valid Justification)
- PIPs Not Completed On Time (No Justification)

Europe

Pediatric Trials – Still Struggling

Annual Snap Shot at Year End Last 5 Years ~60% Have Not Yet Enrolled Patients or Have Been Released from Obligations

United States



Potential Solutions?

Pediatric Clinical Trials Networks

c4c *

IACT *

Others

PAVING THE FUTURE FOR THE TREATMENT OF PAEDIATRIC DISEASES THROUGH A PAN-EUROPEAN CLINICAL TRIALS NETWORK

c4c

Vision

Better medicines for babies, children and young people through a pan-European clinical trial network









MISSION

c4c will use a coordinated approach to deliver high quality "regulatory grade" clinical trials in:

- Multiple countries
- Multiple sites
- All paediatric age groups

by supporting:

- Trial implementation using resources shared between studies
- Trial design through a combination of information about natural history, feasibility, appropriate innovation, and expert opinion
- Education and awareness within and beyond the network









Key Objectives

- More efficient trial implementation through the set-up of national hubs and qualified sites
- Input in clinical trial design and implementation from pilot expert advisory groups and other fora
- Educational programme for health professionals and awareness raising campaigns for the general public
- Identification of Data standards and performance metrics
- Business cases for sustainability beyond IMI funding

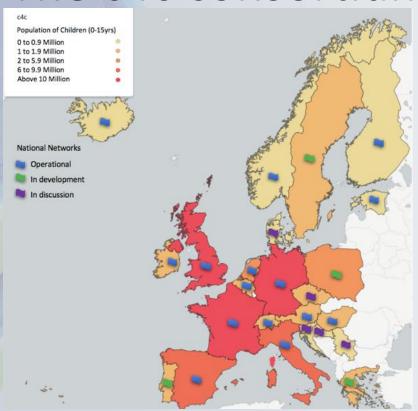








The c4c consortium members



- 10 EFPIA companies
- 18 paediatric national networks
- 2 large patient advocacy groups
- 8 EU multinational specialty networks
- 3 global research networks
- 2 large children's hospitals









Institute for Advanced Clinical Trials for Children



Core Elements of I-ACT's Approach

I-ACT for Children is an independent 501(c)3 public-private collaboration designed to advance innovative medicines and device development and labeling to improve child health.

Pediatric Product Development

Skills and experience for regulated pediatric product development, labeling and post-marketing for innovative medicines and devices

Innovation

Clinical development strategy and trial design

Efficiency

Operational efficiency with high quality



The Current U.S. Site Network



44 US sites as of March 2019; 2019 goal of 60 sites

- Pre-competitive projects
- Advice & guidance on proprietary projects
- Facilitation of clinical trials, feasibility
- Trial conduct, enrollment etc.

- Innovative medicines and devices
- Regulatory-quality clinical trials
- Therapeutic-area agnostic
- Partnered with specialty & international networks
- Participate in I-ACT for Children metrics & QI program
- Utilize central IRB
- Contract agreements in place
- Dedicated medical & operational points of contact
- Peer-to-peer engagement
- Mentoring program
- Communications & troubleshooting

Key Global Collaborators - GPCTN



FROM THOUGHT LEADERSHIP
TO CLINICAL PRACTICE





Japan Clinical Trials Network

Example Advocacy Relationships







Example Research Alliance Organizations







National Capital Consortium
for Pediatric Device Innovation



James M. Anderson Center for Health Systems Excellence



Pediatric Specialty Networks

I-ACT for Children: Key Staff



Thank you

