# Decentralized trials: Pediatric Considerations

### General Considerations I

- Increasing diversity and equity through decentralization is of foremost importance for children and their families but there are caveats that need to be addressed (language, access to internet, privacy,..).
- New methods and technologies (telehealth systems, wearable device, remote monitoring, digital) adapted to the pediatric population could increase enrollment, retention and satisfaction.
- Decentralization means different things: Academic hospitals -Community/regional hospitals - Home
- Involving patient partners in the design, execution and conduct of a trial is critical to ensure elements of decentralization are relevant and feasible

### **General Considerations II**

- "A sick child is a sick family": decentralization has huge potential for minimizing logistical hurdles affecting families of children enrolled in CT.
- Indirect cost is significantly higher for families with children enrolled in a trial compared to adults (transportation, arranging childcare, school interruption, taking time off from work, etc..). This is amplified in the Rare Diseases space.
- Responsiveness to DCT from families is likely dependent on multiple factors:
  - nature of the disease and its severity
  - family functioning
  - relationship with and trust in the heath care provider team (having an appointment with a doctor in the hospital setting is a standard that some families will be reluctant to renounce to). Families preferring a centralized approach should be financially supported.

## Informed consent/assent process

- ► IC Interview as well as opportunity to ask questions must be provided to both child participant and the legal representative - takes more time - child must have right to express own views (disagreement / dissent option)
- ▶ Information must be provided per age group according to the maturity may need several e-consent / e-assent form versions
- Explaining trial procedures and flowchart can benefit by using digital formats (video, animations, multimedia etc.)
- ► Children may need adult support throughout the IC process (requires parallel/simultaneous entry to database e-consent platforms)
- e-Informed consent / e- assent signature may need double-step identification (high level personal data security) such as bank credentials
  - minors under certain age limit per jurisdiction may not have access to such credentials
  - may need specific legally accepted procedure e.g. "acting on behalf" requirements
  - ▶ may need 2-3 signatures; child + 1-2 legal representatives according national requirements

#### Trial Related Procedures at Home

- ► Trial related procedures at home
  - ▶ RD with pediatric onset (75%) have distinct and sometime unique characteristics that create additional decentralization challenges.
  - ► Clinical Outcome Assessment (COA) and measurement of endpoints: many scales and instruments not validated for virtual administration. Administration to young infants at home may require special training of personal.
  - ▶ Development of minimal Invasive blood sampling methods will increase recruitment and retention.
- ▶ Roles and responsibilities use of digital tools (diary, ePRO, wearables etc.)
  - Requires adult oversight, control and support (= extended training)
- ► IMP storage at home may need extra security setting
  - ▶ To guarantee safety and preventing children's access to IMP