

# UCLA IRB FDA Referral on the ESSENCE Trial for Duchenne Muscular Dystrophy

James McGough, M.D., M.S.

Chair, UCLA Medical Institution Review Board

Professor, UCLA Division of Child & Adolescent Psychiatry

Joint Meeting of the U.S. FDA Pediatric Advisory  
Committee and Pediatric Ethics Subcommittee,

May 18, 2017

# Speaker Financial Support

- Travel to meeting paid by UCLA IRB
- No personal financial interests with study sponsor

# Overview

- Background
- IRB Considerations
- IRB Conclusions
- Questions and Discussion

# Background

- 06/11/15 ESSENCE submitted for review
- 06/23/15 Initial IRB review – deferred for consent issues
- 08/14/15 Full Board initial approval
- 08/01/16 Continuation approved – no enrollments to date
- 02/25/17 Parent complaint received
- 03/09/17 Full board IRB review of complaint

# Summary of Complaint

- FDA guidance precluded use of port-a-cath as having risk without benefit for placebo group
- One UCLA participant's mother complained of “significant pain and stress” resulting from multiple attempts at IV access on multiple visits
- All 5 enrolled UCLA participants having difficulty with IV access
- 3 of 5 enrolled also with concomitant Autism and added difficulties tolerating IV placement

# IRB Membership

- Child Psychiatry
- Community Representatives
- Genetics
- Neurology
- Nursing
- Oncology
- Pharmaceutical services
- Psychiatry
- Psychology
- Pediatrics

# IRB Considerations

1. Board reviewed initial parental complaint and acknowledged risks of stress related to difficulties with recurrent IV placement in the study population over 96 week trial

# IRB Considerations

2. Reviewed and discussed additional parental input including concerns about possible need to drop out of trial or obtain port-a-cath placement at own expense outside of study



# IRB Considerations

3. Reviewed and discussed risks vs. benefits of port-a-cath vs. other access methods

- Need for general anesthesia
- Potential for clotting
- Infection
- Removal
- Lifespan
- Future use in open-label extension

# IRB Considerations

4. Reviewed and discussed risks vs. benefits of alternative means of access, i.e. PICC line, central venous catheter, midline catheter

- Need for general anesthesia
- Potential for clotting
- Infection
- Removal
- Lifespan
- General anesthesia

# IRB Considerations

## 5. Reviewed PI proposal to minimize port-a-cath associated risks

- Use only in patients with demonstrated difficulty with IV access – 3 or more attempts at two consecutive visits or 5 or more attempts at one visit
- Port placement only at sponsor approved sites with pediatric intensive care units by surgeons with extensive experience

# IRB Considerations

## 6. Reviewed UCLA experience with port-a-cath-placement

- Only performed in Clinical Translational Research Center (CTRC)
- Occurrence of infection, thrombosis, post-operative complications rare
- Parents trained to recognize infection
- Port status monitored weekly
- Single placement for course of study likely sufficient

# IRB Conclusions

1. Board is concerned about the potential for weekly trauma and undue psychological risks over the course of study participation
2. Board recognized potential risk of iatrogenic PTSD – of particular concern in these patients who will require increased medical care over their lifetimes

# IRB Conclusions

3. Risk of medically-induced trauma in study participants creates potential for early drop-out or termination of participation, further undermining likelihood of successful study completion

# IRB Conclusions

4. Use of port-a-cath in participants who fail easy IV access has a preferable risk/benefit ration compared with other options for access
5. Appropriate means to decrease associated risks proposed and supported by empirical evidence

# IRB Conclusions

6. Board open to determine that port-a-cath placement represents “minor increase over minimal risk” absent FDA’s previous prohibition
7. Board members saw no difference in port-a-cath risk in active vs. placebo groups
8. All participants have potential benefit from port-a-cath placement once rolled into open treatment



# IRB Conclusions

9. Unanimous Board determination that ESSENCE investigation represents a reasonable opportunity to further understanding, prevention, or alleviation of a serious problem affecting the health or welfare of children

# IRB Conclusions

10. Use of port-a-cath per investigator's proposal would be acceptable to the IRB but for the FDA's previous determination
  
11. Recommended for referral to FDA under 21 CFR 50.54

# Questions & Discussion