Abstract citation ID: igad104.2808
COMPARISON OF SENSOR BASED CONTINUOUS ADL ASSESSMENTS TO CARE-GIVER ADCS-ADL SURVEY RESULTS
John Fitch1, Rachel Williams1, Dennis Myers2, and Michael Devin1, 1. Birkeland Current, Waco, Texas, United States, 2. Baylor University, Waco, Texas, United States
This paper presents analysis results between the Birkeland Current (BC) Sovrin IoT in-home sensing system and monthly ADCS-ADL survey data for Care Recipient/Caregiver (CR/CG) pairs (N=117) as part of a Phase II NIA SBIR study (R44AG065118) conducted from 2021 to 2023. The analysis provides correlation analysis between overall BC ADL Scores and ADCS-ADL scores as well as comparisons to IADL/BADL scores. The CR population was screened to represent mild to mid-level cognitive decline and was continuously monitored in home and assisted living environments for up to 18 months. The BC system demonstrates significant correlation with the ADCS-ADL score at the level of sensitivity of the ADCS survey and subfactor results. The BC system is able to demonstrate sensitivity to a single point change in the two-factor BADL score as well as a single point change in the two-factor IADL score. Discussion of limitations of comparison to retroactive surveys is described. Novel ADL measurement dimensions are discussed for further study.