Quick Start Guide to Sensor Data Integration: Data Processing

Sensor generated technologies should leverage transmission protocols that optimize:

1. The diversity and inclusion of the patients who can benefit from sensor generated data
2. Access for all patients and decision makers with appropriate permissions
   → Access best practices and nine action oriented resources from DATAcc by DiMe’s inclusion toolkit

Ensure that all data processing steps are known and documented

→ Learn about different types of sensor data at varying levels of processing here
→ Use the DiMe Sensor Data Integrations Data Flow Design tool to record where data processing is happening and documentation of these operations are necessary

Algorithmic transformation of pre-processed data to clinically interpretable data and information must be correct and perform equally well across all members of the population of intended patient users

→ Learn how to evaluate the performance of an algorithm processing sensor generated technology using the analytical validation steps of DiMe’s V3 framework
→ Review specific considerations pertinent to equity of algorithms used to generate digital clinical measures in DATAcc by DiMe's inclusion toolkit

Appropriate standards should be applied to data processing

→ Review current standards pertinent to data processing here

See quick-start guides on other ART criteria

Data Collection  Data Transmission  Data Privacy  Data Security  Data Quality

Source: https://www.dimesociety.org/tours-of-duty/sensor-data-integrations/implementation