

When completing process oriented tasks, checklists are important part of the process. A thorough explanation of the benefits of checklists can be found in The Checklist Manifesto

There are many crucial steps in collecting “routine” motion capture data.

The following checklist is a starting point from which Motion Capture Laboratories can build their own.

We encourage users to contribute to this list by sending additional tasks to support@c-motion.com

Before Patient's Arrival

- Turn on ALL systems
- Item Verify Position and Orientation
 - Verify the position and orientation of Motion Capture Cameras
 - Verify the position and orientation of Force Platforms
 - Verify the position and orientation of Force Structures
 - Verify the position and orientation of Obstacles or Environment objects
- Perform System Calibration
 - Perform static and/or dynamic calibrations of data collection devices
 - Verify results against the Standards developed/referenced by your laboratory
- Verify the protocol being used for the session
 - Verify the experimental protocol for the current data collection session
- Set appropriate system settings
 - As per experimental protocol, set and verify system settings
 - e.g. sampling rates (synchronise), marker thresholds, ranges, triggers etc.
- Zero Force Plates and Perform CalTester test
 - Perform Caltester test at a minimum of 2 locations on each force platform
 - Verify against prior laboratory results
- Prepare necessary markers and supplies

Patient's Arrival

- Obtain informed consent
- Record subject details
 - Insure that there are no contraindications for the patient completing the data collection
 - This may include data collection done via questionnaires or measurements
 - If data collection includes patient questionnaires check to make sure that they have been completed correctly
- Apply markers as per experimental protocol
 - Take a set of digital pictures of the subject for post-hoc review of the marker placement.
- Record static calibration trial
 - Ensure all markers are visible
- Verify recorded marker set
 - Verify recorded marker set by launching Visual3D, creating model, and applying model template appropriate for the protocol
- Remove anatomical markers
 - If necessary, remove anatomical markers not needed for tracking in motion trials
- Verify tracking using Real time
 - If you switch to the real time mode in Visual3D, you can verify that the tracking markers assigned to each segment are appropriate, and that the force vectors make intuitive

sense

- Record dynamic trials
- Verify force platform assignments
 - Load data into Visual3D, assign movement trials to model, and verify force platform assignments
 - Remove assignments to partial force contacts
 - Remove assignments when two segments are in contact with the same platform.
- Execute pipeline for creating event labels.
 - Verify that these event labels make intuitive sense. If not, data collection should be repeated

After Patient Leaves

- Clean up work station
- Execute pipeline for processing
- Load Report Template
- Verify the report.

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