

Supplemental Table Mobile cardiac biomarkers

| Therapeutic Area | Technology | Position of device | Epochs | Study design | Type of clinical study | Other mobile outcomes | Other standard outcome assessment | Use of mobile outcomes | Objectives | Source |
|--|---|---|---------------|------------------------------|------------------------|--|--|------------------------|--|---------------------|
| Cardiology | Electrocardiograph (12-lead digital ECG Holter) | Not specified | Not specified | Observational (Cohort study) | Diagnostic | NA | Cardiometabolic and anthropometric measures (Biomarker) | Co-Prim Endpoint | To assess the time course effect of IKr blockade on ECG biomarkers of ventricular repolarization and to evaluate the accuracy of a fully automatic approach for QT duration evaluation. | Extramiana 2010 [1] |
| Cardiology (Atrial Fibrillation) | Implantable cardioverter defibrillator (specific ICD device not specified) | Implanted in chest | Not specified | Observational (Cohort study) | Epidemiologic al | NA | Cardiometabolic and anthropometric measures (ClinRO) Cardiac (ClinRO) General health history (PRO) | Co-Prim Endpoint | To assess possible ethnic differences in asymptomatic and symptomatic AF occurrence among patients enrolled in the ASSERT clinical trial. | Lau 2013 [2] |
| Cardiology (Heart Failure) | Pressure sensor (EverOn) | Not Attached to the Body (Under the mattress) | Not specified | Observational (Cohort study) | Prevention | Sleep (PerFO) Breathing (Biomarker) | Cardiometabolic and anthropometric measures (ClinRO) Cardiac (PRO, ClinRO, and ObsRO) Sleep (PRO) | Exploratory endpoint | To assess normal and altered physiological patterns in the home environment, and to determine if altered physiological patterns correlate with hospital readmissions. | Bennett 2015 [3] |
| Cardiology (Hypertension) | Ambulatory blood pressure monitor (specific ABP monitor not specified) | Arm (Upper Left) | Not specified | Observational (Cohort study) | Genetic | NA | | Primary endpoint | To investigate the genetic impact of pulse pressure-related loci in determining future cardiovascular outcomes, as measured by ambulatory blood pressure monitoring of hypertensive patients. | Leu 2014 [4] |
| Cardiology (Myocardial infarction) Diabetes (Type 2) | Electrocardiograph (MARS ECG Holter system) | Not specified | Not specified | Observational (Case control) | Prevention | NA | Cardiac (ObsRO) | Exploratory endpoint | To prospectively assess the utility of heart rate turbulence, measured from 24-hour Holter ECGs, in identifying the risk of cardiac mortality in post-MI patients with diabetes mellitus. | Miwa 2011 [5] |
| Nephrology (Dialysis, Kidney transplant) | Heart rate monitor (Suunto T3c) Inertial sensor (SenseWear Armband) Location monitor (Suunto T3c) | Chest (HR monitor) Arm (Inertial sensor) | 5 second | Observational (Case control) | Epidemiologic al | Physical activity (PerFO) | Cardiometabolic and anthropometric measures (Biomarkers) Cardiac (Biomarkers) | Co-Prim Endpoint | To compare the metabolic and hydration status adaptations to 5 repeated trekking sessions in a 7-day expedition into the Algerian desert between kidney transplanted patients and health control subjects. | Mosconi 2011 [6] |

PerFO = Performance Outcome; ObsRO = Observer Reported Outcome; PRO = Patient Reported Outcome; ClinRO = Clinician Reported Outcome

References

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