

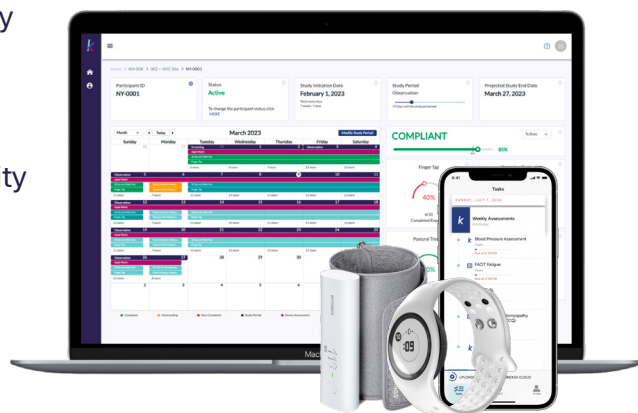
High-Resolution Measurement in Cardiovascular Research

koneksa

Designing and delivering structured measurement systems spanning cardiovascular risk, function, and clinical outcomes.

Cardiovascular disease remains a leading cause of mortality worldwide, yet many trial endpoints rely on episodic clinic assessments that do not capture how treatment affects patients in daily life. Multimodal measurement connects clinic-based assessments with real-world functional capacity to better determine treatment effects across settings.

Koneksa designs cardiovascular measurement models that integrate digital physiology, functional capacity, patient-reported data, and biomarkers, translating continuous signal into clinically interpretable trial-ready endpoints.



Measurement Framework Made for Cardiovascular

Koneksa applies a structured measurement-first model across cardiovascular programs:

Clinical Intent & Mechanistic Alignment



Measurement strategies aligned to therapeutic objectives and disease mechanisms.

Endpoint Construction & Concept Equivalence



Endpoints preserving interpretability between clinic-based and real-world assessment.

Longitudinal & Event Modeling



Repeated-measures and composite event frameworks detecting progression & outcomes.

Multimodal Physiologic & Functional Capture



Integrated digital physiology, activity, and biomarkers capturing cardiovascular function.

Cardiovascular Measurement Models in Practice

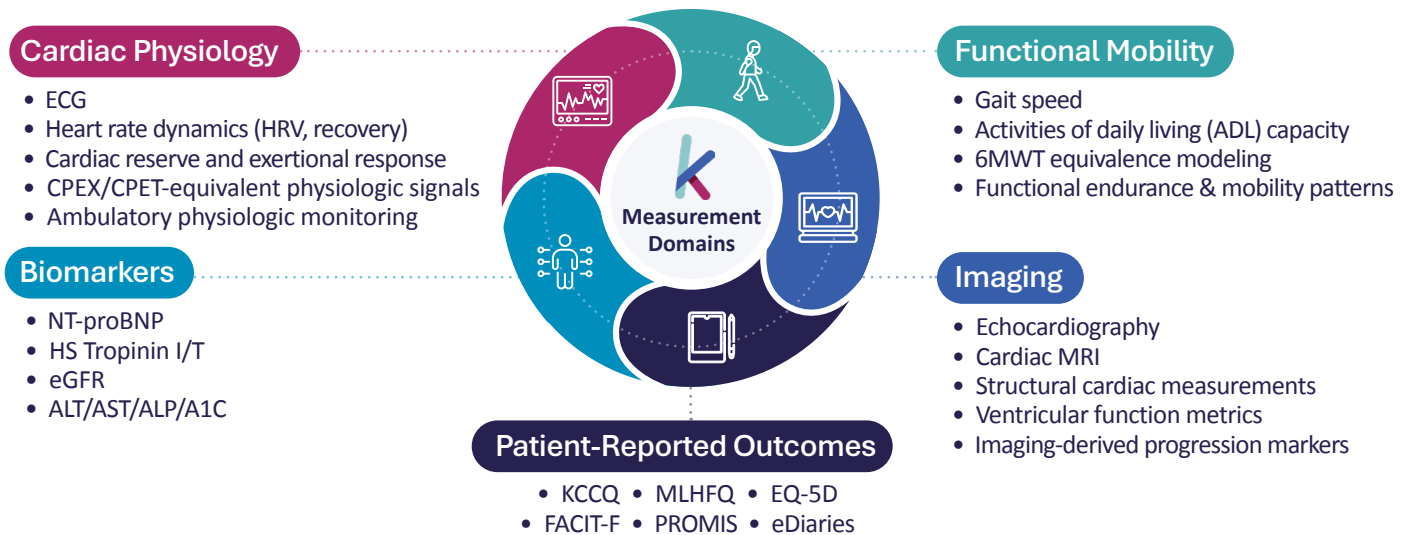
Cardiovascular trials face recurring measurement challenges spanning functional status, event definition, and disease progression across heterogeneous patient populations. Koneksa develops structured measurement models that address these challenges by connecting physiologic signals, functional capacity, and clinical context across both clinic and real-world environments.

Challenge	Model	Impact
Functional Status	Composite Modeling	Functional Endpoints
Event Definition	Event Detection Frameworks	Clearer Outcomes
Clinic-real world gap	Equivalence Modeling	Consistent Endpoints
Progression Detection	Longitudinal Modeling	Earlier Signals

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Measurement Assets and Domain Coverage

Cardiovascular outcomes emerge from interacting physiologic, functional, and metabolic systems, requiring measurement strategies that integrate signals across these domains to characterize disease status and progression.



Cardiometabolic Context in Cardiovascular Measurement

Cardiovascular disease frequently emerges within broader cardiometabolic dysfunction.

Effective measurement strategies must capture the interaction between metabolic drivers, functional capacity, and cardiovascular physiology across time.

Koneksa's cardiovascular models incorporate metabolic risk signals to support:

- Measurement frameworks spanning heart failure, CKD, diabetes, obesity, and rare cardiomyopathies
- Integration of clinic-based measures with real-world physiologic and activity signals
- Linking biomarkers and physiologic signals to functional outcomes in daily life
- Detection of disease events, dependencies, and progression across cardiometabolic systems

Signal Integrity at Scale

Cardiovascular research requires measurement systems that connect clinic-based assessments with real-world function in daily life. Structured measurement architecture enables continuous evaluation of cardiovascular status across settings, while integrated execution systems preserve data integrity, endpoint interpretability, and longitudinal comparability from protocol initiation through database lock.

Where Koneksa's Model Stands Apart:

Measurement strategy embedded prior to protocol design, aligned to cardiovascular therapeutic objectives, including risk reduction, functional improvement, and event detection

Concept equivalent frameworks linking clinic-based cardiac assessments with real-world functional capacity and activity

Multimodal integration across digital cardiac physiology, laboratory biomarkers, and patient-reported symptom and function measures

Device-agnostic, data harmonization for consistent longitudinal cardiovascular analysis

Schedule a scientific consultation to explore your cardiovascular measurement strategy with Koneksa.