SOLUTIONS FOR ADVANCED CARDIOVASCULAR RESEARCH
OPENING THE BLACK BOX OF THE MICRO-CIRCULATION

- Diagnostic- and treatment strategies for impaired micro-vascular function is an unaddressed clinical need
- Diagnosing the coronary micro-circulation presents unique challenges which historically have limited the development of effective treatment strategies
- Coroventis Research provides a set of unique tools designed to facilitate and simplify advanced physiologic research, including tools aimed specifically at the coronary micro-circulation

Coroventis CoroFlow™ is a research toolkit that together with Abbott vascular’s wireless PressureWire® X provides a unique set of tools for advanced physiological research:

- Absolute Coronary Flow & Resistance through continuous thermo-dilution
- IMR, CFR and RRR through bolus thermo-dilution
- Intracoronary or intraventricular dP/dt, Tau
- Fractional Flow Reserve, FFR
Abbott vascular’s PressureWire® X measures intra-coronary pressure and temperatures which are broadcasted using secure frequency hopping radio technology.

Coroventis CoroFlow™ receives the transmitted pressure and temperature information wirelessly from PressureWire® X and calculates pressure and flow parameters using thermo-dilution techniques.
**SYSTEM OVERVIEW**

**Patient environment**
- Abbott PressureWire X
- Abbott Wi-Box

**Lesion assessment through:**
- FFR
- OCT

**Research environment**
- Abbott QUANTIEN/OPTIS

**CoroFlow™ Cardiovascular Research system**
- Absolute Flow/Resistance
- IMR
- CFR
- Intracoronary dP/dt

**CoroVentis**
FEATURES

Real-time calculation and display

- Absolute coronary flow (L/min)
- Absolute Microvascular Resistance (mmHg/L/min)
- IMR & wedge IMR (Index of Microvascular Resistance)
- CFR & Normalized CFR (Coronary Flow Reserve)
- Pressure bound CFR (PB-CFR)
- RRR (Resistive Reserve Ratio)
- FFR (Fractional Flow Reserve), Pd/Pa at rest
- Intravascular temperature
- Intra-coronary/ventricular dP/dt, beat by beat and average max/min
- Diastolic relaxation constant Tau
- Systolic/diastolic/end-diastolic pressures and ratios
- Channel phase synchronization

Note: CoroFlow is intended for research purposes only, not routine clinical decision making
RESEARCH DATA MANAGEMENT

The CoroFlow research system is designed to handle large number of study subjects and facilities effective and secure data management in single or multi-center research projects.

- Local or distributed network/cloud database
- Unlimited number of remote review stations
- Adaptive database filtering and automated bulk extraction and export of key study parameters
- Built in review and lock functions enables source data quality control and protection
- Unlimited number of subjects and recordings
- Up to 2 hours uninterrupted recording time per recording
- Extensive case annotation and configurable event markers
- Multiple data export formats
CoroFlow utilizes existing Abbott equipment in cathlab, No extra equipment needed

CoroFlow workstation PC and CoroHub Wireless Receiver is installed in control room or adjacent equipment room.

CoroFlow Review App is installed on desired number of local PC's/Laptop's with network access

Image on cathlab boom via hospital image switch
Operate system with gyro air mouse inside cathlab or from workstation in control room

CoroFlow Workstation

Data accessible remotely via Cloud/Network connectivity

Cloud/Network Database
SYSTEM COMPONENTS

- **CoroFlow Workstation Software License**
  - One for each cathlab

- **CoroHub Receiver & Gyro Air Remote control**
  - One for each cathlab

- **CoroFlow Review App License**
  - Unlimited number of installs

- **Research Workstation PC**
  - One for each cathlab. Existing hospital provided PC used.
  - Optionally provided by Coroventis
Note: CoroFlow is a research tool and not indicated for routine clinical decision-making.
Note: Refer to IFU for PressureWire® and Wi-Box® for warnings and indications for these devices. PressureWire® and Wi-Box® are registered trademarks of Abbott Vascular Inc.
Patent pending.

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