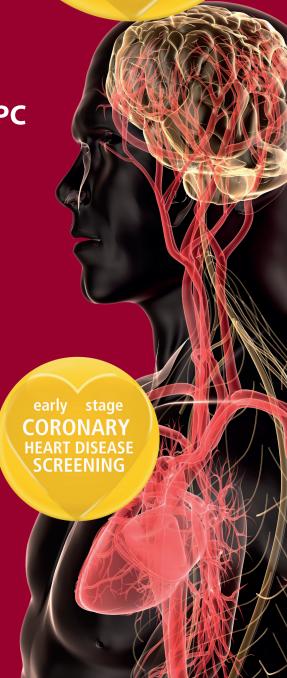


PAR R PULSE ARRHYTHMIA TECHNOLOGY

early stage
STROKE RISK
SCREENING
with only ONE single
BLOOD PRESSURE
measurement

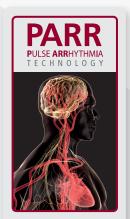
- DETECTS AFib
- WORLD'S FIRST DETECTION OF PC (Premature Contraction) / Tachycardia / Bradycardia
- THE FASTEST TECHNOLOGY
 42 seconds
- MOST CONVENIENT
 Single measurement
- HIGH SENSITIVITY 74 - 100%
- IMPECCABLE SPECIFICITY > 95% for any find of patients

AFib PC TACH BRAD ARR





ADVANTAGES OF BLOOD PRESSURE MONITORING WITH PARR TECHNOLOGY



AFib Atrial Fibrillation

PC Premature Contraction

TACH Tachycardia

BRAD Bradycardia

ARR Non type – specific arrhythmia

Rossmax Blood Pressure Monitors with PARR Technology enables early detection to PREVENT STROKE AND OTHER CARDIAC DISEASES with only one single measurement

PATENTED TECHNOLOGY DETECTS AFib, PC, TACH & BRAD

For the first time it is possible that routine oscillometric sphygmomanometer measurements lead to a proven distinction of clinically relevant types of pulse arrhythmia (not only AFib but also PC).

NO REPETITION MEASUREMENTS REQUIRED

The conduct of the measurement with the presented clinically meaningful accuracy does not require measurement repetitions.

NO ADDITIONAL SKILLS OR KNOWLEDGE REQUIRED

This is a proprietary Rossmax technology, which executes the detection of pulse arrhythmia automatically and simultaneously while performing blood pressure measurements.

HOME OR CLINICAL USE

Rossmax PARR is recommended for screening or follow-up at home for patients and / or for clinical use.

11033111aX 1 Altit is recommended

AFib Atrial Fibrillation Detection (AFib)

The upper chambers of the heart (the atria) beat irregular (quiver) and mostly fast instead of beating effectively to move blood into the ventricles. This condition is associated with a higher risk for cardiac blood clots, stroke, heart failure and other heart-related complications. About 10 % - 20 % of patients who suffer from an ischemic stroke also suffer from atrial fibrillation.

PC Premature Contraction Detection (PC)

Extra, abnormal heartbeats generated in abnormal locations of your heart, either in the atria (PAC) or in the ventricles (PVC) or the cardiac conduction nodes (PNC). These extra beats disrupt your regular heart rhythm, sometimes causing palpitations (e.g. skipped beats) in your chest. It may occur singularly or repetitively with various incidence. If not stress-related, they are a sensitive marker for a multitude of cardiac disorders, elevated ischemic stroke risk with PC.

TACH Tachycardia (TACH)

Fast heart rate of more than 100 beats per minute (BPM) in adults. Unless being caused by physical or mental stress, indicator for cardiac and extra-cardiac disorders (e.g. coronary heart disease, hyperthyroidism, fever).

BRAD Bradycardia (BRAD)

Slow heart rate, heart rate of less than 55 beats per minute in adults. Unless caused by endurance training heart adaption, bradycardia may be related to a multitude of cardiac and extra cardiac disorders (e.g. electrolyte imbalance, medication, coronary and / or valvular heart disease).

ARR Non type – specific arrhythmia (ARR)



rossmax

PARRPRO

0

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"PARR" AUTOMATIC BLOOD PRESSURE MONITOR

Model: X5



Atrial Fibrillation

Detection

Premature Contraction

Detection







Movement Detection





Average of last

3 readings



energy technology



Detection



Cone Cuff



detects AFib / PC in early stage



"PARR PRO" PROFESSIONAL BLOOD PRESSURE MONITOR

7 day AM/PM

Averaging

Model: X9



Atrial Fibrillation

Detection



Premature Contraction

Detection



Tachycardia

Detection



Bradycardia

Detection



Automatic and Auscultatory mode











Medical

















90 memories

Cuff



prevents the risk of cardio disease and stroke by early detection

"PARR PRO" PROFESSIONAL BLOOD PRESSURE MONITOR

Model: AC1000 f





Detection



Tachycardia

Detection



Bradycardia

Detection



Automatic and Auscultatory mode



Atrial Fibrillation

Detection



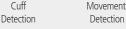
















Marking for Systolic &

Diastolic at auscultatory





Battery Charging for mobility



300,000 measurements guaranteed



CLINICAL TEST

The sensitivity and the specificity of **PARR technology** are concluded by comparing the detection results of **PARR algorithm** to the medical reference of the ECG.

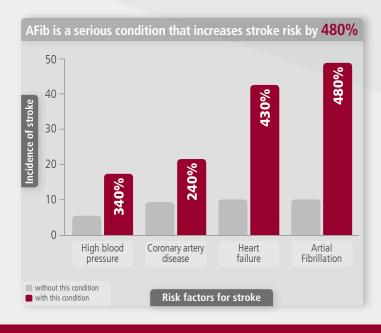
Total 385 data entries	NORM	ARR	BRAD	TACH	PC	AFib
Number of cases	189	186	36	40	54	75
Sensitivity	99.47%	95.16%	100%	97.50%	74.07%	78.67%
Specificity	95.41%	96.98%	99.14%	99.13%	95.17%	98.39%

Sensitivity: the proportion of positives that are correctly identified as such. Specificity: the proportion of negatives that are correctly identified as such.

PARR Technology has a sensitivity of 74.07% regarding PC and 78.67% regarding AFib. This result is obtained from clinical patients and cardiologic patients **without** data selections. Considering the amount of waveforms with high complexity among the raw data entries, sensitivity over 70 % is considered extraordinary. Over 90 % or even 100 % sensitivity might be possible with pre-test patient selection.

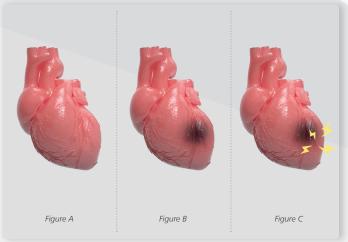
STROKE

- There are 2 types of stroke, ischemic type and hemorrhagic type. Ischemic strokes represent about 85% while hemorrhagic types concern about 15% of all cases.
- Among ischemic type stroke, 70% is caused by embolization.
- About 10-20% of patients who suffer from an ischemic stroke have AFib.



CORONARY HEART DISEASE

- On the surface of the heart, coronary arteries are present.
 The lack of coronary perfusion is a major cardiac disease for people over 40 years old. (fig. A)
- A clogged coronary artery leads to a lack of oxygen in the ventricle peripheral to the arterial supply area. This may establish a pathological pacemaker which irregularly triggers contractions. (fig. B)
- Premature ventricular contractions (PVCs) may indicate the presence of coronary heart disease. (fig. C)



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