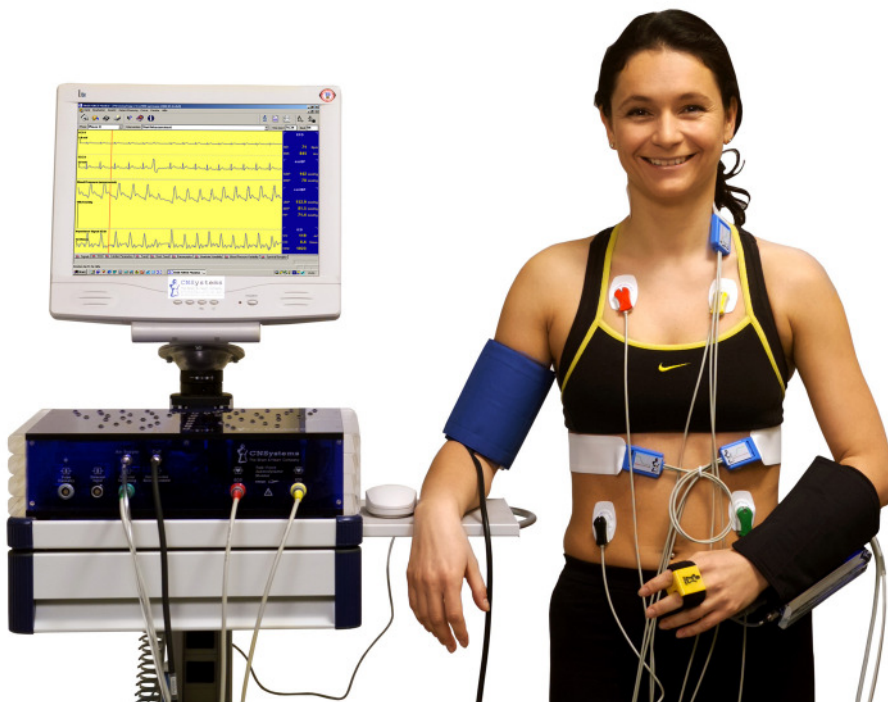




Task Force® Monitor Vital Normal Values



Valid from	Task Force® Monitor V2.2
Replaces	MF_2004_005_TFM_Normal_Values_EN, Version 1.1
Order Number	Brochure: Clinical Guide Normal Values and TFM Applications HWTF3060 (english),HWFT3061 (german)



The specified normal ranges define mean values for healthy patients in resting position and are independent from age and sex. For a more detailed information regarding age and sex refer to the reference list.

Hemodynamic parameters

Parameter	Abbr.	Unit	Normal Value
Heart rate	HR	bpm	60-90
RR-Interval	RRI	ms	660-1000
Systolic blood pressure	SBP	mmHg	90-140
Diastolic blood pressure	DBP	mmHg	50-90
Mean arterial blood pressure ¹	MABP	mmHg	<105
Stroke volume	SV	ml	60-120
Stroke index ²	SI	ml/m ²	30-80
Cardiac output	CO	L/min	4-8
Cardiac index	CI	L/min/m ²	2,5-4,5
Total peripheral resistance	TPR	dyne*s/cm ⁵	800-1200
Total peripheral resistance index ²	TPRI	dyne*s* m ² /cm ⁵	1200-2400
Left ventrikular work index	LVWI	kg*m/min/m ²	3,0-5,0
Index of contractility	IC	1000/s	33-65
Thoracic fluid content	TFC	1/kOhm	21-50
Maximum rise in pressure	dP/dt	mmHg/s	500-1000

Parameter of the autonomic cardiovascular regulation⁴

Parameter	Abkürzung	Einheit	Normalwert
Baroreflex sensitivity	BRS	ms/mmHg	>9,3
Heart rate variability – LF (0,04-0,15 Hz)	LF_RRI	ms ²	1170 ± 420
Heart rate variability – HF (0,15-0,4 Hz)	HF_RRI	ms ²	975 ± 200
Normalized units Low Frequency	Lfnu_RRI	%	55± 5
Normalized units High Frequency	Hfnu_RRI	%	30 ± 3
Power Spectral Density	PSD_RRI	ms ²	3500± 1100
LF/HF Ratio	LF_RRI/HF_RRI	1	<2,0
Sympatho-vagale Balance	LF_dia/HF_RRI	1	<2,0

1. depending on sBP und dBP
2. depending on **Body Surface Area**..BSA:
Formular of DuBois: $BSA (m^2) = 0.20247 \times \text{Height}(m)^{0.725} \times \text{Weight}(kg)^{0.425}$
A variation is: $BSA (m^2) = 0.007184 \times \text{Height}(cm)^{0.725} \times \text{Weight}(kg)^{0.425}$
3. calculated from beat-to-beat finger blood pressure curve; this parameter is displayed in the software application "Pacemaker" only.
4. the physiological conclusion .of the Very Low Frequency taken from the RR-interval as well as the parameters of the blood pressure variability are still being scientifically discussed. Reliable normal values for these parameters are at present not available.

References:

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