

New LifeShirt® Preclinical System Trace Parameters

Core Parameters

Respiratory Volumes

Vt	Tidal Volume
RC	Rib Cage Excursions
AB	Abdomen Excursions
ViVol	Inspiratory Tidal Volume
VeVol	Expiratory Tidal Volume
Vent	Minute Ventilation
qDEEL	Change in End-Expiratory Lung Volume

Respiratory Flow and Acceleration

dVt	Derivative of Tidal Volume (Flow)
d2Vt	Second Derivative of Tidal Volume (Acceleration)
Vt/Ti	Mean Inspiratory Flow
PifVt	Peak Inspiratory Flow
PefVt	Peak Expiratory Flow

Respiratory Timing

Br/M	Respiratory Rate
Ti	Inspiratory Time
Te	Expiratory Time
Tt	Total Breath Time
Ti/Tt	Fractional Inspiratory Time

Thoracoabdominal Coordination Measures

%RC	%RC/Tidal Volume Ratio
PhRIB	Phase Relation During Inspiration
PhREB	Phase Relation During Expiration
PhRTB	Phase Relation of Entire Breath
PhAng	Phase Angle

Apnea-Hypopnea Detection and Classification

BAp	Apnea Classification
BHyp	Hypopnea Detection
AHI	Apnea Hypopnea Index

ECG Traces/Measures

ECG	Electrocardiogram
RW	R-Wave Pulse
HR	Heart Rate
RR	RR Interval

Accelerometer Waveform Traces/Measures

ACC	Accelerometer Signal
AccP	Accelerometer Posture Indicator
AccM	Accelerometer Motion Indicator
ACT	Activity Level

Advanced Parameters

TVI	Tidal Volume Instability
d2RC	Second Derivative of RC Excursions
d2AB	Second Derivative of AB Excursions
dRC	Derivative of RC Excursions
dAB	Derivative of AB Excursions
RBVol	Running Baseline Tidal Volume
%SBVol	Sigh Volume
Ti/Te	Inspiratory/Expiratory Time Ratio
PifTTi	Time To Reach Peak Inspiratory Flow
PefTTe	Time To Reach Peak Expiratory Flow
F/Vt	Rapid Shallow Breathing Index
PifRC	Peak Inspiratory Flow of RC
PifAB	Peak Inspiratory Flow of AB
VePif	Ventilation/Peak Inspiratory Flow Ratio
PifMif	Peak Inspiratory/Mean Inspiratory Flow
PefMef	Peak Expiratory/Mean Expiratory Flow
PiaVt	Peak Inspiratory Acceleration
PiaRC	Peak Inspiratory Acceleration of RC
PiaAB	Peak Inspiratory Acceleration of AB
VePia	Ventilation/Peak Inspiratory Acceleration
LBI	Labored Breathing Index
ePhRL	Effort Phase Relation
eBPRL	Baseline Effort Phase Relation
RBPEf	Running Baseline Peak Expiratory Flow
%CBPEf	% Cough Peak Expiratory Flow
RIP	Periodic Breathing & Cheyne-Stokes Respiration
PerCS	Amplitude of CSR and Periodic Breathing
PerCT	Cycle Length of CSR and Periodic Breathing
RWA	R-Wave Pulse for Artifact Marking
PR	Pulse Rate

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New LifeShirt® Preclinical System Trend Parameters

Core Parameters

Respiratory Volumes

MVol Median Tidal volume
 MVent Median Minute Ventilation

Respiratory Flow and Acceleration

MPiFVt Median Peak Inspiratory Flow (peak flow)

Respiratory Timing

MBr/M Median Breath Rate
 MTt Median Total Breath Time
 MTi/Tt Median Fractional Inspiratory Time

Thoracoabdominal Coordination Measures

M%RC Median Percent Rib Contribution to Tidal Volume
 MPhRTB Median Phase Relation of Total Breath

ECG Traces/Measures

MHR Median Heart Rate
 MRR Median RR Interval

Accelerometer Waveform Traces/Measures

MAccP Median Accelerometer Posture Indicator
 MAccM Median Accelerometer Motion Indicator
 mAccP Mean Accelerometer Posture Indicator
 mAccM Mean Accelerometer Motion Indicator

Advanced Parameters

MqDEEL Median Change in End-Expiratory Lung Volume
 MRBVol Median Running Baseline of Tidal Volume
 Sigh15 Number of Sighs per 15 Minutes
 pSigh Percent Sighs of Total Breaths Every 15 Minutes
 MTVI Median Tidal Volume Instability
 MF/Vt Median Rapid Shallow Breathing Index
 MVePif Median Ventilation/Peak Inspiratory Flow Ratio
 MPiFmif Median Peak Inspiratory Flow/Mean Inspiratory Flow
 MPeFmef Median Peak Expiratory Flow/Mean Expiratory Flow
 Cough15 Number of Coughs per 15 Minutes
 pCough Percent Coughs of Total Breaths per 15 Minutes
 BApC Number of Central Apneas per Minute
 BApM Number of Mixed Apneas per Minute
 BApO Number of Obstructive Apneas per Minute
 BHypC Number of Hypopneas per Minute
 BAH1 Number of Apneas & Hypopneas per Hour

Quartile Ranges for:

LQVol	LQR of Tidal volume
UQVol	UQR of Tidal volume
LQVent	LQR of Minute Ventilation
UQVent	UQR of Minute Ventilation
LQqDEEL	LQR of Change in End-Expiratory Lung Volume
UQqDEEL	UQR of Change in End-Expiratory Lung Volume
LQRBVol	LQR of Running Baseline of Tidal Volume
UQRBVol	UQR of Running Baseline of Tidal Volume
LQBr/M	LQR of Breath Rate
UQBr/M	UQR of Breath Rate
LQTi/Tt	LQR of Fractional Inspiratory Time
UQTi/Tt	UQR of Fractional Inspiratory Time
LQF/Vt	LQR of Rapid Shallow Breathing Index
UQF/Vt	UQR of Rapid Shallow Breathing Index
LQPifVt	LQR of Peak Inspiratory Flow
UQPifVt	UQR of Peak Inspiratory Flow
LQVePif	LQR of Ventilation/Peak Insp. Flow Ratio
UQVePif	UQR of Ventilation/Peak Insp. Flow Ratio
LQPifMif	LQR of Peak Insp.Flow/Mean Insp. Flow
UQPifMif	UQR of Peak Insp. Flow/Mean Insp. Flow
LQPefMef	LQR of Peak Exp. Flow/Mean Exp. Flow
UQPefMEf	UQR of Peak Exp. Flow/Mean Exp.Flow
LQ%RC	LQR of %Rib Contribution to Tidal Vol.
UQ%RC	UQR of % Rib Contribution to Tidal Volume
LQPhRTB	LQR of Phase Relation of Total Breath
UQPhRTB	UQR of Phase Relation of Total Breath
LQHR	LQR of Heart Rate
UQHR	UQR of Heart Rate
LQRR	LQR of RR Interval
UQRR	UQR of RR Interval
LQAccP	LQR of Accelerometer Posture
UQAccP	UQR of Accelerometer Posture
LQAccM	LQR of Accelerometer Motion
UQAccM	UQR of Accelerometer Motion

LQR = Lower Quartile Range
 UQR = Upper Quartile Range

