

# ALTERNATIVE - Challenge Whole Body Plethysmography ALTTCP\_CHL\_003

## Parameters and Metadata

### ALTERNATIVE - Body weight ALTTCP\_CHL\_043\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: g

Description: ALTERNATIVE - body\_weight

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### ALTERNATIVE - Respiratory Frequency (f) ALTTCP\_CHL\_044\_001

| v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: bpm (breaths per minute)

Description: ALTERNATIVE - respiratory\_frequency\_f

Increments: baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## ALTERNATIVE - Tidal Volume (TV) ALTTCP\_CHL\_045\_001 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - tidal\_volume\_tv

Increments: baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## ALTERNATIVE - Peak Expiratory Flow (PEF) ALTTCP\_CHL\_046\_001 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - peak\_expiratory\_flow\_pef

Increments: baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## ALTERNATIVE - Peak Inspiratory Flow (PIF) ALTTCP\_CHL\_047\_001 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: ml/s

**Description:** ALTERNATIVE - peak\_inspiratory\_flow\_pif

**Increments:** baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## **ALTERNATIVE - Inspiratory Time (Ti)** ALTTCP\_CHL\_048\_001 | v1.0

seriesParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - inspiratory\_time\_ti

**Increments:** baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## **ALTERNATIVE - Expiratory Time (Te)** ALTTCP\_CHL\_049\_001 | v1.0

seriesParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - expiratory\_time\_te

**Increments:** baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## ALTERNATIVE - Enhanced Pause (Penh) ALTTCP\_CHL\_050\_001 |

v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: ratio

Description: ALTERNATIVE - enhanced\_pause\_penh

Increments: baseline, PBS, 12.5 Mch, 25 Mch, 50 Mch,

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## ALTERNATIVE - baseline Frequency of breathing ALTTCP\_CH

L\_051\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: bpm (breaths per minute)

Description: ALTERNATIVE - baseline\_frequency\_of\_breathing

Derivation: incrementValue('TCP\_CHL\_044\_001','baseline')

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## ALTERNATIVE - PBS Frequency of breathing ALTTCP\_CHL\_052

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Unit Measured:** bpm (breaths per minute)

**Description:** ALTERNATIVE - pbs\_frequency\_of\_breathing

**Derivation:** incrementValue('TCP\_CHL\_044\_001','PBS')

---

## **ALTERNATIVE - 12.5 Mch Frequency of breathing** ALTTCP\_C

HL\_053\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** bpm (breaths per minute)

**Description:** ALTERNATIVE - 12\_5\_mch\_frequency\_of\_breathing

**Derivation:** incrementValue('TCP\_CHL\_044\_001','12.5 Mch')

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## **ALTERNATIVE - 25 Mch Frequency of breathing** ALTTCP\_CHL

\_054\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** bpm (breaths per minute)

**Description:** ALTERNATIVE - 25\_mch\_frequency\_of\_breathing

**Derivation:** incrementValue('TCP\_CHL\_044\_001','25 Mch')

---

## ALTERNATIVE - 50 Mch Frequency of breathing

ALTTCP\_CHL\_055\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: bpm (breaths per minute)

Description: ALTERNATIVE - 50\_mch\_frequency\_of\_breathing

Derivation: incrementValue('TCP\_CHL\_044\_001','50 Mch')

---

## ALTERNATIVE - baseline Tidal volume

ALTTCP\_CHL\_056\_001 | v1

.0  
simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - baseline\_tidal\_volume

Derivation: incrementValue('TCP\_CHL\_045\_001','baseline')

---

## ALTERNATIVE - PBS Tidal volume

ALTTCP\_CHL\_057\_001 | v1.0  
simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - pbs\_tidal\_volume

Derivation: incrementValue('TCP\_CHL\_045\_001','PBS')

---

## ALTERNATIVE - 12.5 Mch Tidal volume ALTTCP\_CHL\_058\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - 12\_5\_mch\_tidal\_volume

Derivation: incrementValue('TCP\_CHL\_045\_001','12.5 Mch')

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## ALTERNATIVE - 25 Mch Tidal volume ALTTCP\_CHL\_059\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - 25\_mch\_tidal\_volume

Derivation: incrementValue('TCP\_CHL\_045\_001','25 Mch')

---

## ALTERNATIVE - 50 Mch Tidal volume ALTTCP\_CHL\_060\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml

Description: ALTERNATIVE - 50\_mch\_tidal\_volume

Derivation: incrementValue('TCP\_CHL\_045\_001','50 Mch')

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## ALTERNATIVE - baseline Peak Expiratory Flow ALTTCP\_CHL\_

061\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - baseline\_peak\_expiratory\_flow

Derivation: incrementValue('TCP\_CHL\_046\_001','baseline')

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## ALTERNATIVE - PBS Peak Expiratory Flow ALTTCP\_CHL\_062\_0

01 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - pbs\_peak\_expiratory\_flow

Derivation: incrementValue('TCP\_CHL\_046\_001','PBS')

---

## ALTERNATIVE - 12.5 PEF ALTTCP\_CHL\_063\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - 12\_5\_pef

Derivation: incrementValue('TCP\_CHL\_046\_001','12.5 Mch')

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## ALTERNATIVE - 25 Mch Peak Expiratory Flow ALTTCP\_CHL\_06

4\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - 25\_mch\_peak\_expiratory\_flow

Derivation: incrementValue('TCP\_CHL\_046\_001','25 Mch')

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## ALTERNATIVE - 50 Mch Peak Expiratory Flow ALTTCP\_CHL\_06

5\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - 50\_mch\_peak\_expiratory\_flow

Derivation: incrementValue('TCP\_CHL\_046\_001','50 Mch')

---

## ALTERNATIVE - baseline Peak Inspiratory Flow ALTTCP\_CHL\_

066\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - baseline\_peak\_inspiratory\_flow

Derivation: incrementValue('TCP\_CHL\_047\_001','baseline')

---

## ALTERNATIVE - PBS Peak Inspiratory Flow ALTTCP\_CHL\_067\_0

01 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - pbs\_peak\_inspiratory\_flow

Derivation: incrementValue('TCP\_CHL\_047\_001','PBS')

---

## ALTERNATIVE - 12.5 Mch Peak Inspiratory Flow ALTTCP\_CHL\_068\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - 12\_5\_mch\_peak\_inspiratory\_flow

Derivation: incrementValue('TCP\_CHL\_047\_001','12.5 Mch')

---

## ALTERNATIVE - 25 Mch Peak Inspiratory Flow ALTTCP\_CHL\_069\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ml/s

Description: ALTERNATIVE - 25\_mch\_peak\_inspiratory\_flow

**Derivation:** incrementValue('TCP\_CHL\_047\_001','25 Mch')

---

## **ALTERNATIVE - 50 Mch Peak Inspiratory Flow** ALTTCP\_CHL\_070\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** ml/s

**Description:** ALTERNATIVE - 50\_mch\_peak\_inspiratory\_flow

**Derivation:** incrementValue('TCP\_CHL\_047\_001','50 Mch')

---

## **ALTERNATIVE - baseline Inspiratory time** ALTTCP\_CHL\_071\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - baseline\_inspiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_048\_001','baseline')

---

## **ALTERNATIVE - PBS Inspiratory time** ALTTCP\_CHL\_072\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: seconds

Description: ALTERNATIVE - pbs\_inspiratory\_time

Derivation: incrementValue('TCP\_CHL\_048\_001','PBS')

---

## ALTERNATIVE - 12.5 Mch Inspiratory time ALTTCP\_CHL\_073\_001

| v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: seconds

Description: ALTERNATIVE - 12\_5\_mch\_inspiratory\_time

Derivation: incrementValue('TCP\_CHL\_048\_001','12.5 Mch')

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## ALTERNATIVE - 25 Mch Inspiratory time ALTTCP\_CHL\_074\_001 |

v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: seconds

**Description:** ALTERNATIVE - 25\_mch\_inspiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_048\_001','25 Mch')

---

## **ALTERNATIVE - 50 Mch Inspiratory time** ALTTCP\_CHL\_075\_001 |

v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - 50\_mch\_inspiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_048\_001','50 Mch')

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## **ALTERNATIVE - baseline Expiratory time** ALTTCP\_CHL\_076\_001

| v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - baseline\_expiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_049\_001','baseline')

---

## ALTERNATIVE - PBS Expiratory time ALTTCP\_CHL\_077\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: seconds

Description: ALTERNATIVE - pbs\_expiratory\_time

Derivation: incrementValue('TCP\_CHL\_049\_001','PBS')

---

## ALTERNATIVE - 12.5 Mch Expiratory time ALTTCP\_CHL\_078\_001

| v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: seconds

Description: ALTERNATIVE - 12\_5\_mch\_expiratory\_time

Derivation: incrementValue('TCP\_CHL\_049\_001','12.5 Mch')

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## ALTERNATIVE - 25 Mch Expiratory time ALTTCP\_CHL\_079\_001 |

v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - 25\_mch\_expiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_049\_001','25 Mch')

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## **ALTERNATIVE - 50 Mch Expiratory time** ALTTCP\_CHL\_080\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** seconds

**Description:** ALTERNATIVE - 50\_mch\_expiratory\_time

**Derivation:** incrementValue('TCP\_CHL\_049\_001','50 Mch')

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## **ALTERNATIVE - baseline Enhanced pause** ALTTCP\_CHL\_081\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** ratio

**Description:** ALTERNATIVE - baseline\_enhanced\_pause

**Derivation:** incrementValue('TCP\_CHL\_050\_001','baseline')

---

## ALTERNATIVE - PBS Enhanced pause ALTTCPC\_HL\_082\_001 | v1.

1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ratio

Description: ALTERNATIVE - pbs\_enhanced\_pause

Derivation: incrementValue('TCP\_CHL\_050\_001','PBS')

---

## ALTERNATIVE - 12.5 Mch Enhanced pause ALTTCPC\_HL\_083\_0

01 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ratio

Description: ALTERNATIVE - 12\_5\_mch\_enhanced\_pause

Derivation: incrementValue('TCP\_CHL\_050\_001','12.5 Mch')

---

## ALTERNATIVE - 25 Mch Enhanced pause ALTTCPC\_HL\_084\_001

| v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** ratio

**Description:** ALTERNATIVE - 25\_mch\_enhanced\_pause

**Derivation:** incrementValue('TCP\_CHL\_050\_001','25 Mch')

---

## **ALTERNATIVE - 50 Mch Enhanced pause** ALTTCP\_CHL\_085\_001

| v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** ratio

**Description:** ALTERNATIVE - 50\_mch\_enhanced\_pause

**Derivation:** incrementValue('TCP\_CHL\_050\_001','50 Mch')

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## **ALTERNATIVE - Equipment ID** ALTTCP\_CHL\_086\_001 | v1.1

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - equipment\_id

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## **ALTERNATIVE - Experimenter ID** ALTTCP\_CHL\_087\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - experimenter\_id

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## **ALTERNATIVE - Equipment manufacturer** ALTTCP\_CHL\_088\_001

| v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - equipment\_manufacturer

**Options:** Buxco, DSI,

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## **ALTERNATIVE - Equipment model** ALTTCP\_CHL\_089\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - equipment\_model

**Options:** Aerosol Delivery System AUT 5110, FP WBP Unite, Plethysmograph PLY3211,

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## **ALTERNATIVE - Software for analysis** ALTTCP\_CHL\_090\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - software\_for\_analysis

**Options:** BioSystem XA for Windows v2.9.4, FinePointe Software Research Suite v2.3.1.9,

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## **ALTERNATIVE - Analysis Algorithm** ALTTCP\_CHL\_091\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - analysis\_algorithm

**Options:** Epstein,

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## **ALTERNATIVE - Date equipment last calibrated** ALTTCP\_CHL\_092\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - date\_equipment\_last\_calibrated

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# ALTERNATIVE - Type of restraint ALTTCP\_CHL\_093\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - type\_of\_restraint

**Options:** Unrestrained,

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