

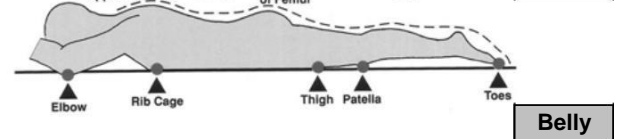
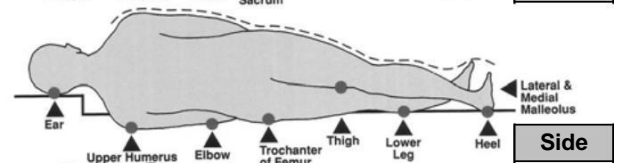
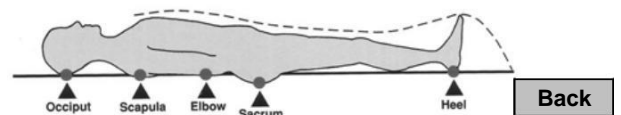
REQUEST SHEET - PRESSURE MAPPING

| | | | |
|------------------------|--------------------|------------------------|--------------|
| Project name: | Invacare Top / Air | Applicant name: | Jordan.Huang |
| Project code: | M052 | Applicant dept: | PM |
| Customer name: | | Date requested: | 2017/12/21 |
| Product name 1: | Invacare Air | SHL Resp.: | |
| Product name 2: | | Date reviewed: | |

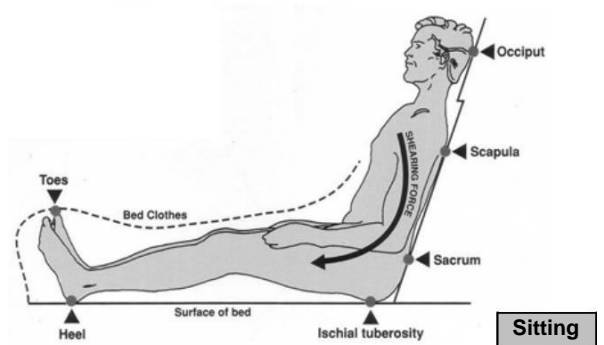
| | |
|------------------------|--------------------|
| Tests requested | Interface pressure |
| | Internal pressure |

| | | |
|--------------------------|------------------|---|
| Results requested | FSA Mapping | X |
| | Pressure curves | X |
| Report requested | Sales report | |
| | Technical report | |
| | Others | |

| Monitor points | Back | Side | Belly | Sitting |
|---------------------|------|------|-------|---------|
| Occiput | X | | | |
| Scapula | X | | | |
| Elbow | X | | | |
| Sacrum | X | | | |
| Heel | X | | | |
| Ear | | | | |
| Upper Humerus | | | | |
| Trochanter of femur | | | | |
| Thigh | | | | |
| Lower leg | | | | |
| Rib cage | | | | |
| Patella | | | | |
| Ischial tuberosity | | | | |
| Toes | | | | |



| Test parameters | Gender | Weight | Height | BMI |
|---------------------------------|--------|--------|---------|--------|
| Test Person 1 | Male | 75kg | 170-175 | NA |
| Test Person 2 | | | | |
| Requirment Test Pressure | | | | |
| used pressure | 60mmHg | 45mmHg | 40mmHg | 35mmHg |
| | 30mmHg | 25mmHg | | |
| Other special pressure | | | | |



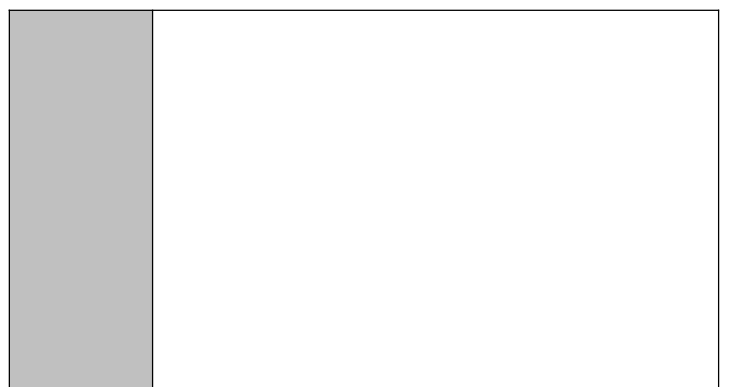
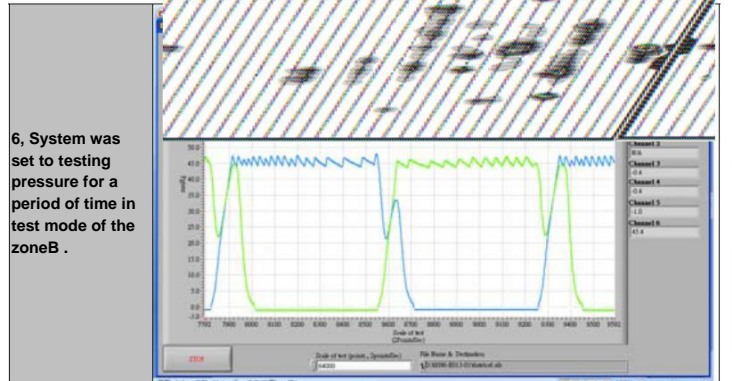
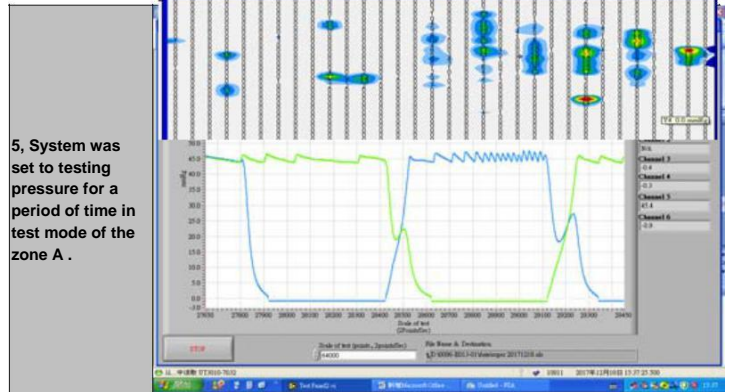
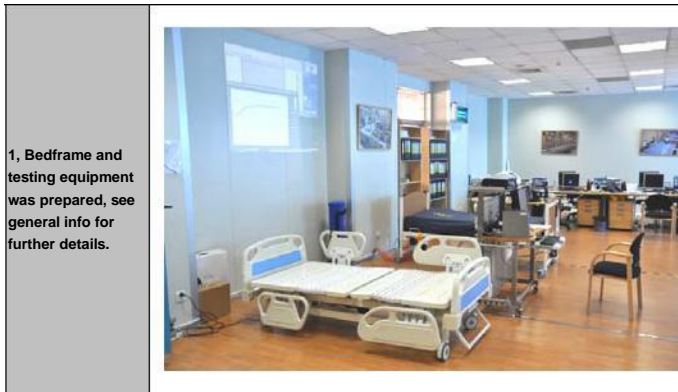
Comments/purpose with test

| | | | |
|-----------------------------|--|-----------------------|--|
| Applicant Signature: | | SHL Signature: | |
| Date: | | Date: | |

GENERAL INFORMATION - PRESSURE MAPPING

| | | |
|-------------------|------------------|---|
| Purpose of test | | |
| Mattress system 1 | Name: | Invacare Air |
| | Description: | |
| | Specification: | |
| Mattress system 2 | Name: | |
| | Description: | |
| | Specification: | |
| Mattress system 3 | Name: | |
| | Description: | |
| | Specification: | |
| Test person 1 | Gender: | Male |
| | Weight [kg]: | 75 |
| | Height [cm]: | 170-175 |
| | BMI: | NA |
| Test person 2 | Gender: | |
| | Weight [kg]: | |
| | Height [m]: | |
| | BMI: | |
| Bed frame | Name: | LAB Sample 1 |
| | Description: | Typical community bed, steel mesh bottom. |
| | Specification: | 2000 x 900 mm |
| Test equipment 1 | Name: | FSA pressure sensor mat |
| | Description: | Calibrated to 0-100 mmHg, 10Hz |
| | Serial number: | ut3010-7032 |
| | Last calibrated: | 20180820 |
| Test equipment 2 | Name: | pressure curve test machine |
| | Description: | Calibrated to 0-100 mmHg, ±1% |
| | Serial number: | NA |
| | Last calibrated: | 20180220 |
| Test theater | Temperature: | 21.5°C |
| | Humidity: | 34% |

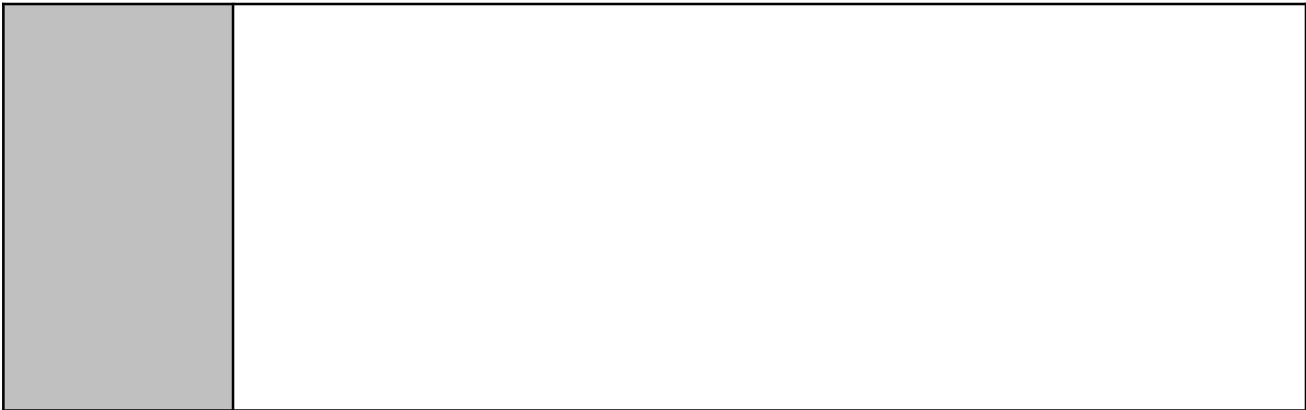
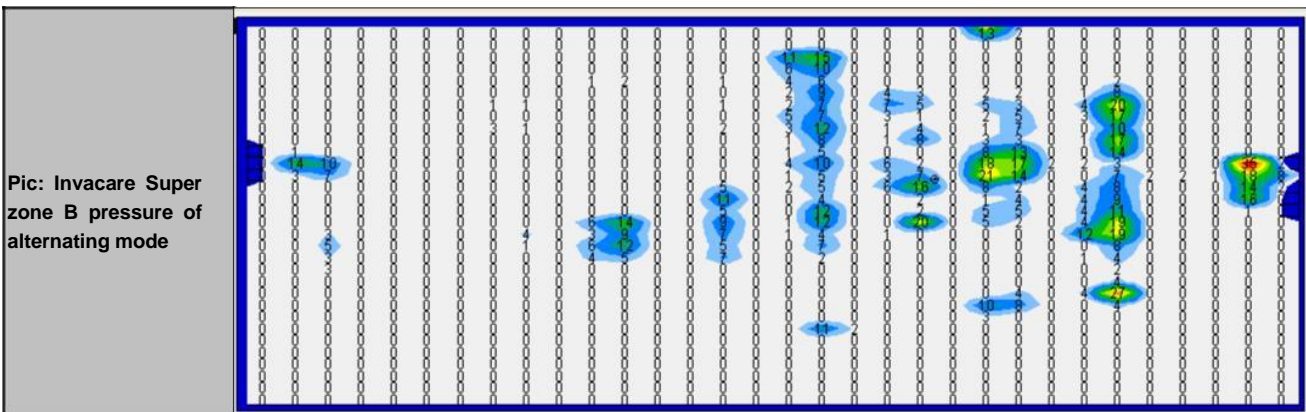
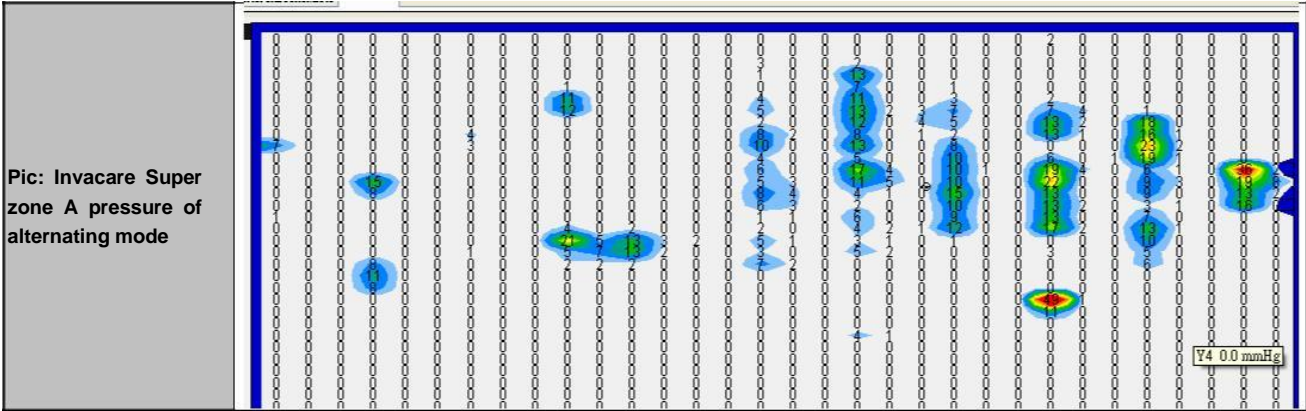
SET UP & METHOD



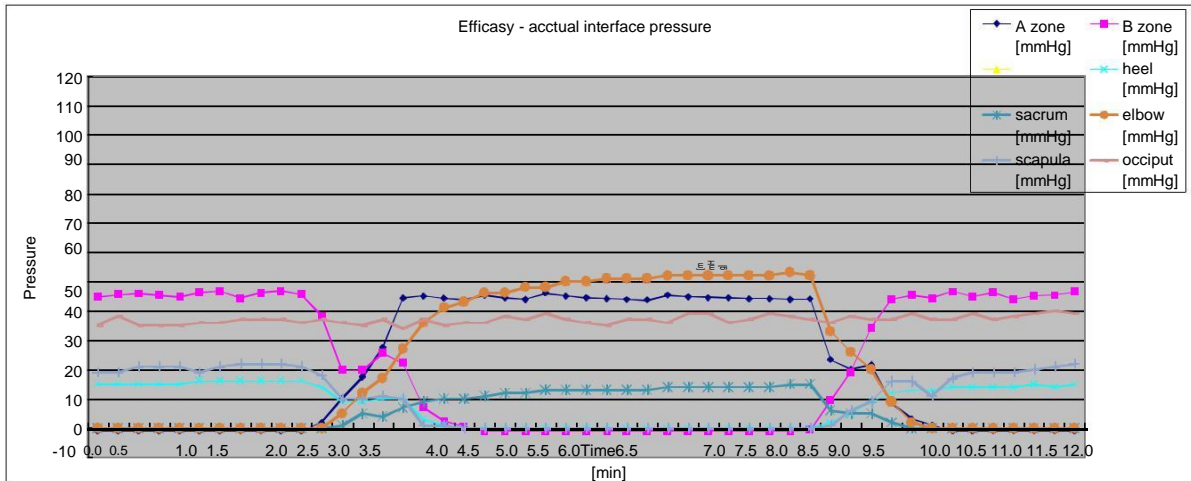
DATA TABLE - PRESSURE MAPPING

| Brand | Model | Sec | min | Ref. time | Interface pressure | | | | | Internal pressure | | Comment |
|----------------|-------|-----|-------|-----------|--------------------|----------------------|---------------------|-----------------------|-----------------------|-------------------|------------------|---------|
| | | | | | heel [mmHg] | sacr um [mmHg] | elbo w [mmHg] | scap ula [mmHg] | occi put [mmHg] | A zone [mmHg] | B zone [mmHg] | |
| Invacare Super | flat | 0 | 00.00 | 15:32:00 | 15 | 0 | 0 | 19 | 35 | -1 | 44.7 | |
| Invacare Super | flat | 15 | 00.25 | 15:32:15 | 15 | 0 | 0 | 19 | 38 | -1 | 45.6 | |
| Invacare Super | flat | 30 | 00.50 | 15:32:30 | 15 | 0 | 0 | 21 | 35 | -1 | 45.9 | |
| Invacare Super | flat | 45 | 00.75 | 15:32:45 | 15 | 0 | 0 | 21 | 35 | -1 | 45.4 | |
| Invacare Super | flat | 60 | 01.00 | 15:33:00 | 15 | 0 | 0 | 21 | 35 | -1 | 44.7 | |
| Invacare Super | flat | 75 | 01.25 | 15:33:15 | 16 | 0 | 0 | 19 | 36 | -1 | 46.2 | |
| Invacare Super | flat | 90 | 01.50 | 15:33:30 | 16 | 0 | 0 | 21 | 36 | -1 | 46.5 | |
| Invacare Super | flat | 105 | 01.75 | 15:33:45 | 16 | 0 | 0 | 22 | 37 | -1 | 44.4 | |
| Invacare Super | flat | 120 | 02.00 | 15:34:00 | 16 | 0 | 0 | 22 | 37 | -1 | 46.1 | |
| Invacare Super | flat | 135 | 02.25 | 15:34:15 | 16 | 0 | 0 | 22 | 37 | -1 | 46.8 | |
| Invacare Super | flat | 150 | 02.50 | 15:34:30 | 16 | 0 | 0 | 21 | 36 | -1 | 45.6 | |
| Invacare Super | flat | 165 | 02.75 | 15:34:45 | 14 | 0 | 0 | 18 | 37 | 2 | 38.2 | |
| Invacare Super | flat | 180 | 03.00 | 15:35:00 | 9 | 1 | 5 | 10 | 36 | 10 | 19.8 | |
| Invacare Super | flat | 195 | 03.25 | 15:35:15 | 9 | 5 | 12 | 10 | 35 | 17.4 | 19.8 | |
| Invacare Super | flat | 210 | 03.50 | 15:35:30 | 10 | 4 | 17 | 11 | 37 | 27.5 | 25.7 | |
| Invacare Super | flat | 225 | 03.75 | 15:35:45 | 10 | 7 | 27 | 10 | 34 | 44.4 | 22.2 | |
| Invacare Super | flat | 240 | 04.00 | 15:36:00 | 3 | 9 | 36 | 1 | 37 | 45 | 7.1 | |
| Invacare Super | flat | 255 | 04.25 | 15:36:15 | 1 | 10 | 41 | 1 | 35 | 44.3 | 2.4 | |
| Invacare Super | flat | 270 | 04.50 | 15:36:30 | 0 | 10 | 43 | 0 | 36 | 43.7 | 0.5 | |
| Invacare Super | flat | 285 | 04.75 | 15:36:45 | 0 | 11 | 46 | 0 | 36 | 45.4 | -0.9 | |
| Invacare Super | flat | 300 | 05.00 | 15:37:00 | 0 | 12 | 46 | 0 | 38 | 44.5 | -0.9 | |
| Invacare Super | flat | 315 | 05.25 | 15:37:15 | 0 | 12 | 48 | 0 | 37 | 43.9 | -0.9 | |
| Invacare Super | flat | 330 | 05.50 | 15:37:30 | 0 | 13 | 48 | 0 | 39 | 46 | -0.9 | |
| Invacare Super | flat | 345 | 05.75 | 15:37:45 | 0 | 13 | 50 | 0 | 37 | 45 | -0.9 | |
| Invacare Super | flat | 360 | 06.00 | 15:38:00 | 0 | 13 | 50 | 0 | 36 | 44.5 | -0.9 | |
| Invacare Super | flat | 375 | 06.25 | 15:38:15 | 0 | 13 | 51 | 0 | 35 | 44.1 | -0.9 | |
| Invacare Super | flat | 390 | 06.50 | 15:38:30 | 0 | 13 | 51 | 0 | 37 | 43.9 | -0.9 | |
| Invacare Super | flat | 405 | 06.75 | 15:38:45 | 0 | 13 | 51 | 0 | 37 | 43.6 | -0.9 | |
| Invacare Super | flat | 420 | 07.00 | 15:39:00 | 0 | 14 | 52 | 0 | 36 | 45.3 | -0.9 | |
| Invacare Super | flat | 435 | 07.25 | 15:39:15 | 0 | 14 | 52 | 0 | 39 | 44.8 | -0.9 | |
| Invacare Super | flat | 450 | 07.50 | 15:39:30 | 0 | 14 | 52 | 0 | 39 | 44.6 | -0.9 | |
| Invacare Super | flat | 465 | 07.75 | 15:39:45 | 0 | 14 | 52 | 0 | 36 | 44.5 | -0.9 | |
| Invacare Super | flat | 480 | 08.00 | 15:40:00 | 0 | 14 | 52 | 0 | 37 | 44.2 | -0.9 | |
| Invacare Super | flat | 495 | 08.25 | 15:40:15 | 0 | 14 | 52 | 0 | 39 | 44.1 | -0.9 | |
| Invacare Super | flat | 510 | 08.50 | 15:40:30 | 0 | 15 | 53 | 0 | 38 | 43.9 | -0.9 | |
| Invacare Super | flat | 525 | 08.75 | 15:40:45 | 0 | 15 | 52 | 0 | 37 | 44 | -0.6 | |
| Invacare Super | flat | 540 | 09.00 | 15:41:00 | 2 | 6 | 33 | 1 | 36 | 23.3 | 9.5 | |
| Invacare Super | flat | 555 | 09.25 | 15:41:15 | 5 | 5 | 26 | 6 | 38 | 20.1 | 19 | |
| Invacare Super | flat | 570 | 09.50 | 15:41:30 | 9 | 5 | 20 | 9 | 37 | 21.6 | 34.2 | |
| Invacare Super | flat | 585 | 09.75 | 15:41:45 | 12 | 2 | 9 | 16 | 37 | 8.5 | 43.9 | |
| Invacare Super | flat | 600 | 10.00 | 15:42:00 | 13 | 0 | 2 | 16 | 39 | 3 | 45.3 | |
| Invacare Super | flat | 615 | 10.25 | 15:42:15 | 13 | 0 | 0 | 11 | 37 | 1.1 | 44.4 | |
| Invacare Super | flat | 630 | 10.50 | 15:42:30 | 14 | 0 | 0 | 17 | 37 | -1 | 46.6 | |
| Invacare Super | flat | 645 | 10.75 | 15:42:45 | 14 | 0 | 0 | 19 | 39 | -1 | 44.8 | |
| Invacare Super | flat | 660 | 11.00 | 15:43:00 | 14 | 0 | 0 | 19 | 37 | -1 | 46.2 | |
| Invacare Super | flat | 675 | 11.25 | 15:43:15 | 14 | 0 | 0 | 19 | 38 | -1 | 43.9 | |
| Invacare Super | flat | 690 | 11.50 | 15:43:30 | 15 | 0 | 0 | 20 | 39 | -1 | 45.1 | |
| Invacare Super | flat | 705 | 11.75 | 15:43:45 | 14 | 0 | 0 | 21 | 40 | -1 | 45.5 | |
| Invacare Super | flat | 720 | 12.00 | 15:44:00 | 15 | 0 | 0 | 22 | 39 | -1 | 46.4 | |

RESULT - FSA



RESULT - PRI



| | Heel | sacrum | elbow | scapula | Occiput |
|---------------|-------|--------|-------|---------|---------|
| Max. pressure | 16.00 | 15.00 | 53.00 | 22.00 | 40.00 |
| Min. pressure | 00.00 | 00.00 | 00.00 | 00.00 | 34.00 |

PRI-Elbow

| PRI [mmHg] | Time [min] | % of cycle |
|------------|------------|------------|
| 0 | 5 | 41.7% |
| <15 | 6 | 50.0% |
| <30 | 7 | 58.3% |
| <45 | 8 | 66.7% |

PRI-Heel

| PRI [mmHg] | Time [min] | % of cycle |
|------------|------------|------------|
| 0 | 4.5 | 37.5% |
| <15 | 9 | 73.5% |
| <30 | 12 | 100.0% |
| <45 | 12 | 100.0% |

PRI-Occiput

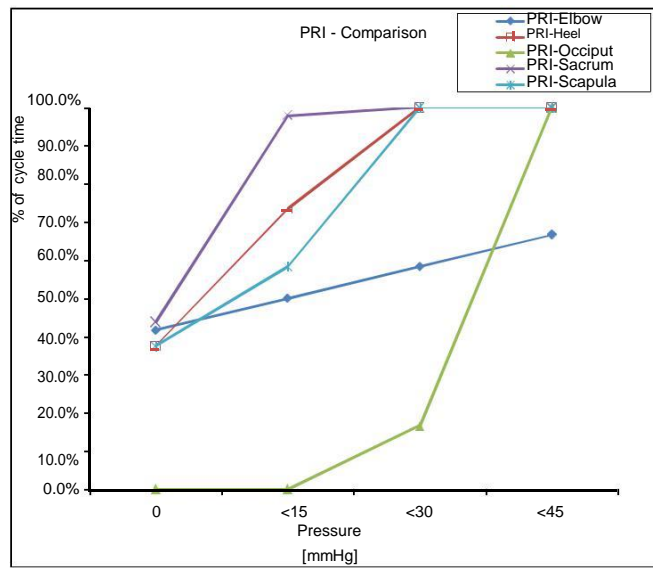
| PRI [mmHg] | Time [min] | % of cycle |
|------------|------------|------------|
| 0 | 0 | 0.0% |
| <15 | 0 | 0.0% |
| <30 | 2 | 16.7% |
| <45 | 12 | 100.0% |

PRI-Sacrum

| PRI [mmHg] | Time [min] | % of cycle |
|------------|------------|------------|
| 0 | 5.25 | 43.8% |
| <15 | 11.75 | 97.9% |
| <30 | 12 | 100.0% |
| <45 | 12 | 100.0% |

PRI-Scapula

| PRI [mmHg] | Time [min] | % of cycle |
|------------|------------|------------|
| 0 | 4.5 | 37.5% |
| <15 | 7 | 58.3% |
| <30 | 12 | 100.0% |
| <45 | 12 | 100.0% |



Used Pressure Picture

