**Table S1 The gender, age, weight and chest circumference at under arm level for the 55 patients used to develop the parameters necessary for creating an age appropriate 2D chest models.**

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| --- | --- | --- | --- | --- |
| **ID** | **Gender**  **(m/f)** | **Age Range**  **(years)** | **Weight**  **(grams)** | **Chest**  **Circumference (m)** |
| 1 | m | 0-0.5 | 4970 | 0.3951 |
| 2 | f | 6-6.5 | 22000 | 0.5886 |
| 3 | m | 4.5-5 | 16000 | 0.5875 |
| 4 | m | 0.5-1 | 10000 | 0.4735 |
| 5 | m | 5-5.5 | 21000 | 0.6415 |
| 6 | m | 1-1.5 | 8080 | 0.4476 |
| 7 | m | 1-1.5 | 10200 | 0.4710 |
| 8 | f | 0.5-1 | 9360 | 0.4672 |
| 9 | f | 0.5-1 | 9300 | 0.4636 |
| 10 | f | 0.5-1 | 10000 | 0.4064 |
| 11 | f | 3-3.5 | 14500 | 0.5704 |
| 12 | f | 4.5-5 | 14500 | 0.5443 |
| 13 | m | 2.5-3 | 16400 | 0.5307 |
| 14 | f | 0-0.5 | 1404 | 0.2610 |
| 15 | m | 1.5-2 | 12000 | 0.5192 |
| 16 | w | 5-5.5 | 20000 | 0.6039 |
| 17 | m | 2-2.5 | 11000 | 0.5025 |
| 18 | m | 1.5-2 | 8000 | 0.4610 |
| 19 | f | 2.5-3 | 16600 | 0.5310 |
| 20 | m | 2-2.5 | 12000 | 0.4937 |
| 21 | f | 5.5-6 | 17500 | 0.5746 |
| 22 | m | 0.5-1 | 8000 | 0.4300 |
| 23 | m | 0-0.5 | 7130 | 0.4339 |
| 24 | f | 6-6.5 | 18500 | 0.5702 |
| 25 | m | 5.5-6 | 20000 | 0.5578 |
| 26 | f | 5-5.5 | 17600 | 0.5538 |
| 27 | f | 2-2.5 | 10000 | 0.4709 |
| 28 | m | 0-0.5 | 2711 | 0.3034 |
| 29 | m | 1-1.5 | 10400 | 0.4809 |
| 30 | f | 1-1.5 | 9785 | 0.4657 |
| 31 | w | 1-1.5 | 7900 | 0.4643 |
| 32 | w | 0-0.5 | 3245 | 0.3491 |
| 33 | m | 0.5-1 | 9650 | 0.4874 |
| 34 | f | 0-0.5 | 5880 | 0.4045 |
| 35 | m | 0-0.5 | 4316 | 0.3888 |
| 36 | m | 2-2.5 | 14000 | 0.5167 |
| 37 | w | 6.5-7 | 20200 | 0.5914 |
| 38 | f | 2-2.5 | 13800 | 0.5181 |
| 39 | m | 4-4.5 | 13700 | 0.5559 |
| 40 | m | 2-2.5 | 11000 | 0.4818 |
| 41 | m | 6-6.5 | 24000 | 0.6493 |
| 42 | m | 6.5-7 | 20600 | 0.5936 |
| 43 | f | 0-0.5 | missing | 0.3627 |
| 44 | m | 0.5-1 | missing | 0.4873 |
| 45 | f | 0.5-1 | missing | 0.4543 |
| 46 | f | 2-2.5 | missing | 0.5125 |
| 47 | m | 0.5-1 | missing | 0.4943 |
| 48 | m | 2.5-3 | missing | 0.5087 |
| 49 | m | 1.5-2 | missing | 0.5499 |
| 50 | m | 3.5-4 | missing | 0.5508 |
| 51 | m | 4.5-5 | missing | 0.5827 |
| 52 | m | 4-4.5 | missing | 0.6247 |
| 53 | m | 2.5-3 | missing | 0.5052 |
| 54 | m | 3.5-4 | missing | 0.5981 |
| 55 | m | 3-3.5 | missing | 0.5151 |