

CHF Patients

Subject No	CHFA#1	CHFA#2	CHFA#3	CHFA#4	CHFA#5	CHFA#6	CHFA#7	CHFA#8	CHFA#9	CHFA#10	CHFA#11	CHFA#12	CHFA#13
Gender	M	M	M	M	M	M	M	M	M	M	M	M	M
Height cm	173	182	180	178	185	163	165	173	178	178	175	180	188
Weight kg	75	113	103	111	119	76	64	77	78	102	93	96	135
Age yrs	63	50	57	62	66	55	70	60	76	58	57	50	68
LVEF %	30	30	35	17	25	35	37	15	33	17	15	30	10

Normothermia

SBP mmHg	99	124	117	104	131	95	120	99	135	108	123	132	136
DBP mmHg	59	79	67	58	74	55	59	65	73	62	77	92	72
MAP mmHg	72	94	84	73	93	68	79	77	94	77	92	105	94
SBFarm%	100	100	100	100	100	100	100	100	100	100	100	100	100
CVCArm%	100	100	100	100	100	100	100	100	100	100	100	100	100
Tsk deg	33.5	33.67	34.11	33.34	34.4	33.54	34.96	33.3	33.6	34.5	33.6	33.4	34.8
Tcore deg	36.7	37.0	36.4	36.6	36.6	37.0	36.6	36.5	37.0	36.5	36.7	36.4	36.9
Tbody deg	36.4	36.7	36.2	36.3	36.4	36.6	36.4	36.2	36.7	36.3	36.4	36.1	36.6
SR (mg/cm2/min)	0.537	0.169	0.101	0.152	0.134	0.127	0.104	0.196	0.190	0.099	0.326	0.147	0.143
HR bpm	67.6	75.0	60.5	65.0	53.5	57.8	71.8	93.5	60.5	68.0	61.6	76.5	71.6
Burst Rate bursts/min	36.7	57	54.76	62	36.8	21.73	64.4	69.5	37	42.7	19.9	63.2	35
Total Activity units/min	1115	1124	1158	1027	960	538	1664	1081	905	1058	353	1379	925

Moderate Heating

SBP mmHg	94	114	105	105	114	88	110	100	120	106	120	119	109
DBP mmHg	55	67	61	50	65	56	56	63	67	60	79	81	60
MAP mmHg	68	83	76	68	81	67	74	76	84	75	92	94	76
SBFarm%	123.8	133.5	143.4	142.3	109.5	161.8	94.3	111.7	176.6	117.0	99.2	94.5	97.3
CVCArm%	130.9	152.5	158.3	153.2	126.0	166.1	100.7	113.3	196.2	120.5	99.0	105.9	119.3
Tsk deg	37.5	36.6	38.3	37.4	36.0	37.8	36.7	36.2	38.7	36.6	38.0	36.9	36.8
Tcore deg	37.0	37.1	36.6	36.9	36.8	36.9	36.8	36.8	37.3	36.6	37.1	36.5	37.1
Tbody deg	37.0	37.1	36.8	37.0	36.7	37.0	36.8	36.7	37.4	36.6	37.1	36.5	37.1
SR (mg/cm2/min)	0.628	0.531	0.543	0.179	0.377	0.127	0.142	0.241	0.223	0.099	0.460	0.446	0.145
HR bpm	73.5	94.6	63.0	65.0	54.4	63.0	71.3	92.9	66.2	71.9	70.4	58.3	74.8
Burst Rate bursts/min	32.3		49.2	59.5	22.1	20.1	62	68.4	35.7	41.6	12.8	47.8	
Total Activity units/min	802		1041	927	638	408	1430	995	838	1032	181	859	

Heat Stress

SBP mmHg	97	106	108	106	116	91	105	100	119	103	127	128	107
DBP mmHg	57	65	58	49	57	49	54	60	64	58	75	79	54
MAP mmHg	70	78	74	68	77	63	71	73	82	73	93	95	72
SBFarm%	152.3	160.7	183.2	147.9	120.4	392.8	117.2	574.3	406.5	234.8	133.3	188.8	148.4
CVCArm%	155.9	193.5	207.1	159.3	146.1	426.1	131.3	601.8	465.3	249.6	132.7	208.6	194.0
Tsk deg	38.0	37.5	38.6	37.6	37.3	38.6	38.1	38.5	38.9	37.9	38.3	38.0	37.5
Tcore deg	37.3	37.4	37.1	37.2	37.2	37.2	37.3	37.2	37.5	37.1	37.3	37.1	37.4
Tbody deg	37.4	37.4	37.2	37.2	37.2	37.3	37.3	37.3	37.6	37.2	37.4	37.1	37.4
SR (mg/cm2/min)	0.663	1.064	0.631	0.310	0.396	0.351	0.161	0.716	0.418	1.075	0.507	0.460	0.425
HR bpm	79.9	104.6	66	65.2	53	70.6	71.9	103.6	73.5	80.3	79.1	67.8	76.1
Burst Rate bursts/min	34.5		48.5	63.3	36.7	31.4	68.9	83.3	49.5	52.4	26.3	60.6	
Total Activity units/min	1041		1127	1009	842	654	1361	1479	1256	1490	438	1277	

Aged Controls

Subject No	AgedA#1	AgedA#2	AgedA#3	AgedA#4	AgedA#5	AgedA#6	AgedA#7	AgedA#8	AgedA#9	AgedA#10	AgedA#11	AgedA#12
Gender	M	M	M	M	M	M	F	M	M	M	M	M
Height cm	183	175	173	180	180	180	173	173	178	180	178	173
Weight kg	84	90	77	86	83	89	57	77	69	92	93	76
Age	63	51	60	63	66	56	70.00	52	73	72	60	62

Normothermia

SBP mmHg	137	101	105	120	130	128	116	115	134	115	112	118
DBP mmHg	74	62	72	69	77	83	68	79	84	69	69	75
MAP mmHg	95	75	83	86	95	98	84	91	101	84	83	89
SBFarm%	100	100	100	100	100	100	100	100	100	100	100	100
CVCArm%	100	100	100	100	100	100	100	100	100	100	100	100
Tsk deg	33.9	34.2	34.0	33.9	34.4	34.2	34.1	34.5	33.8	33.6	33.5	34.2
Tcore deg	36.8	36.6	36.3	36.4	37.2	36.9	36.5	36.9	37.1	36.6	36.9	36.8
Tbody deg	36.5	36.4	36.1	36.1	36.9	36.6	36.3	36.7	36.7	36.3	36.6	36.6
SR (mg/cm2/min)	0.126	0.129	0.126	0.171	0.135	0.104	0.111	0.117	0.097	0.069	0.145	0.088
HR bpm	49.4	73.4	63.7	51.8	64.0	53.5	52.2	63.3	60.4	62.0	65.6	53.5
Burst Rate bursts/min	20.9	24.3	33.6	31.5	24.8	38.3	28.6	37.3	59.5	20.2	45.2	30.0
Total Activity units/min	352	513	658	545	508	608	623	595	1159	423	1130	598

Moderate Heating

SBP mmHg	142	103	109	108	119	114	113	116	126	109	114	110
DBP mmHg	67	70	65	66	69	67	70	75	85	64	65	69
MAP mmHg	92	81	80	80	86	83	85	88	99	79	81	83
SBFarm%	116.7	157.1	200.1	534.5	148.3	212.7	203.3	165.6	146.1	138.0	171.3	126.3
CVCArm%	120.4	146.3	208.2	576.4	164.0	251.7	201.0	171.0	149.4	147.8	176.6	135.9
Tsk deg	38.1	37.2	37.6	37.3	38.2	37.9	37.5	36.8	37.6	38.0	37.2	37.9
Tcore deg	37.0	36.9	36.6	36.6	37.3	36.8	36.7	37.1	37.0	36.5	36.8	37.0
Tbody deg	37.1	36.9	36.7	36.7	37.4	36.9	36.8	37.1	37.1	36.6	36.8	37.1
SR (mg/cm2/min)	0.143	0.220	0.263	0.178	0.234	0.140	0.178	0.115	0.102	0.191	0.223	0.110
HR bpm	50.9	79.4	71.7	59.7	70.8	54.2	59.6	68.9	69.1	76	69.3	57.2
Burst Rate bursts/min	13.3	23.4	26.4	30.1	24.9	31.7	30.5	45.5	66.5	16.2	42.1	18.7
Total Activity units/min	228	477	492	469	623	611	596	738	1168	347	1014	325

Heat Stress

SBP mmHg	136	102	113	104	110	113	107	121	131	111	110	114
DBP mmHg	68	73	66	61	65	70	67	78	81	65	64	73
MAP mmHg	90	83	81	75	80	84	80	92	98	80	79	87
SBFarm%	619.9	489.0	500.2	439.0	822.0	558.1	667.7	392.1	588.1	708.1	524.0	226.3
CVCArm%	652.7	445.2	511.1	502.2	972.5	651.8	695.4	388.3	604.7	747.0	550.4	233.0
Tsk deg	38.3	37.9	38.1	37.8	38.6	38.0	38.0	37.1	38.5	38.5	38.0	38.5
Tcore deg	37.5	37.3	37.0	37.1	37.7	37.4	37.3	37.6	37.4	36.9	37.5	37.6
Tbody deg	37.6	37.3	37.1	37.2	37.8	37.4	37.4	37.6	37.5	37.1	37.6	37.7
SR (mg/cm2/min)	1.199	0.381	0.344	0.697	0.489	1.164	0.421	0.378	0.611	0.227	0.490	0.455
HR bpm	56.2	86.7	76.9	71.2	78	64.2	68.75	74.76	78.5	85.9	77	60.7
Burst Rate bursts/min	32.9	34.4	52.0	53.0	40.7	50.5	41.6	44.1	76.9	25.2	63.0	33.0
Total Activity units/min	550	726	1019	857	963	1014	962	759	1552	543	1537	722

Young Controls

Subject No	YoungA#1	YoungA#2	YoungA#3	YoungA#4	YoungA#5	YoungA#6	YoungA#7	YoungA#8	YoungA#9	YoungA#10	YoungA#11	YoungA#12	YoungA#13	YoungA#14
Gender	M	F	F	M	F	M	M	M	M	F	M	M	M	M
Height cm	172	160	170	198	157	173	170	191	175	161	180	183	175	175
Weight kg	74	61	64	81	59	65	79	79	80	59	76	98	73	67
Age	25	24	30	22	24	23	23	26	23	23	25	25	23	25

Normothermia

SBP mmHg	116	121	127	126	99	117	130	124	153	134	131	147	128	127
DBP mmHg	65	65	70	60	59	61	68	58	68	63	71	62	62	75
MAP mmHg	83	84	82	84	72	81	89	82	98	81	88	91	87	94
SBFarm%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
CVCArm%	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Tsk deg	33.8	34.2	34.0	34.6	34.0	34.7	33.9	34.1	33.9	34.1	33.7	34.0	34.8	34.9
Tcore deg	36.9	37.5	37.2	37.0	37.0	37.0	37.1	36.3	37.5	37.3	36.7	36.8	37.0	36.8
Tbody deg	36.6	37.2	36.9	36.7	36.7	36.7	36.8	36.0	37.1	37.0	36.4	36.5	36.8	36.6
SR (mg/cm2/min)	0.094	0.112	0.104	0.142	0.112	0.103	0.111	0.075	0.092	0.101	0.077	0.077	0.119	0.089
HR bpm	64.2	53.8	66.9	49.8	57.1	63.4	88.0	55.5	69.2	66.8	57.1	38.6	57.2	64.0
Burst Rate bursts/min	13.9	17.6	20.1	15.7	6.9	20.9	11.4	10.6	26.7	19.4	7.5	6.3	7.2	15.6
Total Activity units/min	371	498	410	290	99	267	145	178	397	261	201	121	108	347

Moderate Heating

SBP mmHg	118	117	116	130	99	111	136	129	139	130	126	128	133	122
DBP mmHg	56	61	63	60	53	64	63	56	63	52	63	58	61	66
MAP mmHg	76	79	80	83	68	79	87	80	88	78	84	81	85	85
SBFarm%	304.4	153.8	249.0	156.8	137.4	304.6	274.8	151.0	281.3	213.0	402.5	145.1	219.6	188.3
CVCArm%	331.9	162.6	252.9	157.3	144.5	308.8	278.7	154.5	312.0	219.8	422.5	162.1	225.7	209.5
Tsk deg	37.8	38.9	39.0	38.2	38.7	38.4	37.9	37.9	38.2	38.1	37.4	37.6	37.1	38.2
Tcore deg	37.3	37.2	37.2	37.0	37.3	37.0	37.1	36.2	37.4	37.3	36.6	36.8	37.1	37.0
Tbody deg	37.3	37.4	37.3	37.1	37.4	37.2	37.2	36.3	37.5	37.3	36.7	36.9	37.1	37.1
SR (mg/cm2/min)	0.425	0.112	0.112	0.216	0.112	0.194	0.112	0.075	0.269	0.246	0.761	0.127	0.119	0.090
HR bpm	70.3	58.2	72.9	50.4	62.9	73.9	90.3	58.2	72.9	76.6	76.5	49.3	66.5	73.1
Burst Rate bursts/min	15.3	14.4	27.2	16	10.4	25.2	12.4	15.6	32.1	17.9	12.1	6.8	26.9	5.3
Total Activity units/min	401	383	494	277	204	392	250	333	559	363	324	162	629	98

Heat Stress

SBP mmHg	117	106	113	132	95	105	138	116	148	123	127	149	131	125
DBP mmHg	49	54	59	63	50	48	60	51	63	52	61	63	60	59
MAP mmHg	72	71	71	88	65	68	86	75	86	78	86	84	84	85
SBFarm%	830.4	1845.0	811.2	260.4	212.1	521.4	694.6	509.0	533.0	752.4	559.9	745.9	605.5	655.4
CVCArm%	953.3	2163.9	934.1	247.6	234.5	620.0	717.1	558.6	604.2	781.5	574.8	803.6	627.2	724.8
Tsk deg	37.9	38.9	38.9	38.6	39.1	38.3	38.6	38.3	38.0	38.0	38.1	37.5	37.5	38.4
Tcore deg	37.3	37.8	37.8	37.6	37.7	37.7	37.6	37.0	37.8	37.6	37.2	37.3	37.4	37.6
Tbody deg	37.4	37.9	37.9	37.7	37.9	37.8	37.7	37.1	37.8	37.6	37.3	37.3	37.4	37.7
SR (mg/cm2/min)	1.574	1.160	0.930	0.616	0.406	1.525	1.168	0.894	0.797	0.970	1.150	0.631	0.273	1.175
HR bpm	82.8	83.7	90.2	59.8	77.0	83.3	114.5	68.3	83.3	91.2	97.0	113.7	76.8	82.4
Burst Rate bursts/min	29.2	21.5	32.9	22.5	8.0	22.3	33.8	18.0	39.7	21.5	28.1	29.9	40.6	19.9
Total Activity units/min	826	578	578	339	108.66	361	433	570	608.37	473	416.33	1019	922	374.9