

## Appendix I

Table A1: NT Dog-1 core body temperature in ID-AC-RA conditions **day 1** with vest and without vest.

Time intervals in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38.16	38.58
5	38.31	38.59
10	38.45	38.62
15	38.53	38.58
20	38.53	38.62
25	38.56	38.59
30	38.6	38.58
35	38.55	38.28
40	38.58	38.31
45	38.59	38.34
50	38.58	38.46
55	38.59	38.57
60	38.6	38.55

Table A2: NT Dog-2 core body temperature in ID-AC-RA conditions **day 2** with vest and without vest.

Time interval in minutes	Vest off temperature (°C)	Vest on Temperature (°C)
0	39.49	39.41
5	39.51	39.58
10	39.66	39.62
15	39.66	39.63
20	39.67	39.66
25	39.62	39.65
30	39.6	39.59
35	39.58	39.66

Table A3: NT Dog-1 core body temperature in ID-AC-RA conditions **day 3** with vest and without vest.

Time interval in minutes	Vest off temperature (°C)	vest on temperature (°C)
0	38.79	38.88
5	38.78	38.92
10	38.78	38.86
15	38.77	38.85
20	38.82	38.83
25	38.83	38.84
30	38.93	38.81
35	38.93	38.76
40	38.85	38.73
45	38.86	38.68
50	38.88	38.63
55	38.64	38.61
60	38.63	38.61

Table A4: NT Dog-1 core body temperature in ID-AC-RA conditions **day 4** with vest and without vest.

time interval in minutes	vest off temperature (°C)	vest on temperature (°C)
0	38.51	38.23
5	38.49	38.46
10	38.55	38.65
15	38.56	38.66
20	38.59	38.64
25	38.62	38.61
30	38.71	38.03
35	38.66	38.08
40	38.68	38.82
45	38.73	38.47
50	38.1	38.12
55	38.09	38.35

Table A5: NT Dog-1 core body temperature in OD-Avg HS-RA conditions **day 1-** afternoon with vest and without vest.

Time laps in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	40.22	39.3
5	40.22	39.53
10	40.27	39.8
15	40.32	40
20	40.24	39.99
25	40.28	40.18
30	40.32	40.21
35	40.34	40.21

Table A6: NT Dog-2 core body temperature in OD-Avg HS-RA conditions **day 2-** afternoon with vest and without vest

Time intervals in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	39.62	38.38
5	39.25	38.38
10	38.87	38.61
15	39.17	38.87
20	39.38	38.53

Table A7: NT Dog-1 core body temperature in OD-Avg HS-RA conditions **day 3-** afternoon with vest and without vest

Time intervals in minutes	Vest off temperature (°C)	vest on temperature (°C)
0	38.7	38.63
5	38.74	38.62
10	38.75	38.67
15	38.76	38.69
20	38.76	38.73
25	38.8	38.74

Table A8: NT Dog-1 core body temperature in OD-Avg HS-RA conditions **day 4-** morning with vest and without vest

Time intervals in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	39.5	38.58
5	40	38.62
10	40.14	38.98
15	40.01	39.03
20	39.69	39.17

Table A9: NT Dog-1 core body temperature in OD-Avg HS-RA conditions **day 4-** afternoon with vest and without vest

Time intervals in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38.06	39.4
5	38.32	39.46
10	38.56	39.53
15	38.64	39.65
20	38.66	39.69
25	38.87	39.75
30	39.03	39.77

Table A10: NT Dog-1 core body temperature in OD-Hot HS-LA conditions **day 5**- morning with vest and without vest

Time interval in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38.42	38.48
5	38.59	38.5
10	38.92	38.51
15	38.98	38.62
20	38.89	38.69
25	39.16	38.8
30	39.46	38.86
35	40.57	38.95
40	40.61	39.01
45	39.94	39.1
50	39.27	39.04
55	39.4	39.14
60	39.53	39.29
65	39.6	39.33

Table A11: NT Dog-1 core body temperature in OD-Hot HS-LA conditions **day 5**- afternoon with vest and without vest

Time intervals in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38.5	38.4
2	38.54	38.46
4	38.56	38.57
6	38.59	38.6
8	38.63	38.62
10	38.66	38.67
12	38.64	38.69
14	38.78	38.73
16	38.85	38.88
18	38.91	38.95
20	39.08	38.99
22	39.06	38.94
24	39.1	38.95

Table A12: NT Dog-1 core body temperature in OD-Hot HS-LA conditions **day 6**- morning with vest and without vest

Time intervals in minutes	vest off temperature (°C)	vest on temperature (°C)
0.00	38.67	38.63
2.00	38.76	38.62
4.00	38.77	38.42
6.00	38.79	38.24
8.00	38.84	38.05
10.00	38.79	38.21
12.00	38.82	38.19
14.00	38.85	38.36
16.00	38.91	38.41
18.00	38.9	38.61
20.00	38.97	38.6
22.00	39.04	38.77
24.00	39.08	38.82

Table A13: NT Dog-1 core body temperature in OD-Avg HS-IA conditions **day 7** with vest and without vest

Time interval (in minutes)	Vest off temperature (°C)	Vest on temperature (°C)
0	38.61	38.47
2	38.63	38.47
4	38.75	38.55
6	38.79	38.67
8	38.83	38.75
10	38.88	38.86
12	38.98	38.97
14	39	39.03
16	39.09	39.04

Table A14: NT Dog-2 core body temperature in OD-Avg HS-IA conditions **day 7** with vest and without vest

Time interval in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38.73	38.83
1	38.74	38.82
2	38.77	38.81
3	38.79	38.82
4	38.81	38.83
5	38.81	38.83
6	38.91	38.86
7	38.9	38.89
8	38.94	38.89
9	38.95	38.9
10	39.1	38.94
11	39.02	38.95
12	39.07	39
13	39.12	39.05
14	39.14	39.07
15	39.15	39.15

Table A15: Retired and Working PSD core body temperature in PSD-OD- HS-IA conditions **day 8** with vest and without vest

Time intervals in minutes	Retired PSD vest off temperature (°C)	Retired PSD vest on temperature (°C)	Working PSD vest off temperature (°C)	Working PSD vest on temperature (°C)
0	38.44	38.7	38.43	39.19
2	38.42	38.79	38.48	39.23
3	38.63	38.91	38.53	39.27
4	38.74	38.99	38.62	39.31
6	38.8	39.05	38.78	39.33
7	38.91	39.14	38.86	39.33
8	38.98	39.18	38.94	39.37
9	39.06	39.26	39.01	39.37
10	39.18	39.35	39.17	39.51
11	39.27	39.52	39.22	39.58
12	39.35	39.55	39.41	39.65
13	39.45	39.68	39.48	39.78
14	39.62	39.8	39.55	39.82

Table A16: NT Dog-1 skin temperature in ID-AC-RA conditions **day 1** with vest and without vest.

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp
0	31.5	31	31.5	34	33.5	32
5	32	30.5	31.5	34	34	32
10	32.5	31.5	31.5	34.5	34	32
15	33	32	31.5	34.5	34.5	32.5
20	33	31.5	31.5	35	35	33
25	33	32	31.5	35	35	33.5
30	33.5	32	31	35	35	33.5
35	33.5	32.5	31	35.5	35.5	34
40	33.5	33	31	35.5	35.5	34
45	34	33	31	35.5	35.5	34.5
50	33.5	34	32	35.5	35.5	34.5
55	33.5	34.5	32	35.5	35.5	34.5

Table A17: NT Dog-2 skin temperature in ID-AC-RA conditions **day 2** with vest and without vest

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp
0	38.5	36	34.5	36	34.5	35.5
5	36.5	35	34.5	35	34.5	34.5
10	36	33.5	35	33.5	35	35.5
15	35.5	34	33	34	33	35.5
20	35	34	31	34	31	35
25	34.5	34	30	34	30	34.5
30	34	34	29.5	34	29.5	34.5
35	34	34	29.5	34	29.5	34.5

Table A18: NT Dog-1 skin temperature in ID-AC-RA conditions **day 3** with vest and without vest



Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp	Thermometer 1 temp	Thermometer 2 temp	Thermometer 3 temp
0	36	35.5	34.5	37	37	36.5
5	35.5	36	34.5	37	37.5	36
10	35.5	36	35	37	37.5	36
15	35	36	35.5	37	37.5	36.5
20	35	36.5	35.5	36.5	37.5	36.5
25	35	36.5	35	36.5	37.5	36
30	35	36.5	35	36.5	37	36
35	35.5	36.5	35	36.5	37	36
40	35.5	36.5	35.5	37	37	36
45	35.5	36.5	35.5	37	37	36
50	35.5	36.5	36	37	37	36
55	36	36.5	35.5	37	37	36
60	35.5	36.5	35	37	37	36

Table A19: NT Dog-1 skin temperature in ID-AC-RA conditions **day 4** with vest and without vest

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp
0	35.5	36	36	36	36.5	35
5	34.5	35	34.5	36	36.5	35.5
10	33.5	35	34.5	36	37	35.5
15	33.5	34.5	34.5	35.5	36.5	34.5
20	33.5	35	35	35.5	37	34.5
25	33	34.5	35	35.5	36.5	35
30	33	35	34.5	35.5	36.5	35
35	33.5	35.5	34.5	35.5	37	35
40	34	35.5	34.5	36	37	35
45	34	35	34.5	36	37	35.5
50	34	34.5	34.5	36	37	35.5
55	35	35	35	36	37	36
60	35.5	34.5	35	36	37	36

Table A20: NT Dog-1 skin temperature in OD-Avg HS-RA conditions **day 1** with vest and without vest

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp
0	34	35.5	34	28.5	30.5	30
5	33.5	36	33.5	31	33	31
10	33.5	36	33	32.5	34	32.5
15	34	36	33	34	35	33.5
20	34	36	34	35	35.5	33.5
25	35	36.5	34.5	35	36	34
30	35.5	35.5	35	35.5	36	33

Table A21: NT Dog-2 skin temperature in OD-Avg HS-RA conditions **day 2** with vest and without vest

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp
0	34.5	36.5	35	36	36.5	35
5	35.5	36	35	37	37	35
10	37	35.5	34.5	37.5	37	35.5
15	41	36	35	38	37.5	36
20	39	36	35	39	37.5	36

Table A22: NT Dog-1 skin temperature in OD-Avg HS-RA conditions **day 3** with vest and without vest

Time interval in minutes	Vest off temperature (°C)			Vest on temperature (°C)		
	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp	Thermometer 1 temp
0	34.5	35.5	34.5	34.5	35.5	36.5
5	34.5	35.5	34.5	34.5	35.5	36
10	35	35.5	35	35	35.5	35.5
15	35	35	35.5	35.5	36	35.5
20	35.5	35.5	35.5	36	36.5	36
25	36	35.5	35	36.5	36.5	36

Table A23: NT Dog-1 skin temperature in OD-Hot HS-LA conditions **day 4** morning with vest and without vest

Time interval in minutes	vest off temperature (°C)	vest on temperature (°C)
0	40	35.5
5	40	36
10	39	36.5
15	41.5	37
20	42	37
25	41	37.5
30	41	37.5
35	43.5	38
40	44.5	38.5

Table A24: NT Dog-1 skin temperature in OD-Hot HS-LA conditions **day 4** afternoon with vest and without vest

Time interval in minutes	vest off temperature (°C)	vest on temperature (°C)
0	33.5	32.5
5	34	34.5
10	35.5	36.5
15	37	36.5
20	38	37.5
25	39	37.5

Table A25: NT Dog-1 skin temperature in OD-Hot HS-LA conditions **day 5** morning with vest and without vest

Time interval in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	36.5	35.5
5	36.5	35.5
10	37	36
15	37.5	36.5
20	37	37
25	37.5	37.5
35	38	38

Table A26: NT Dog-1 skin temperature in OD-Hot HS-LA conditions **day 5** afternoon with vest and without vest

Time interval in minutes	Vest off temperature (°C)	Vest on temperature (°C)
5	28	32.5
10	30.5	33
15	34	33.5
20	35	34
25	36	35
35	36	35.5
40	36	36

Table A27: NT Dog-1 skin temperature in OD-Avg HS-IA conditions **day 6** with vest and without vest

time interval in minutes	Skin temperature vest off °C	Skin temperature vest on °C
0	33	31
5	36	32
10	38	32.5
15	39.5	33.5

Table A28: NT Dog-2 skin temperature in OD-Avg HS-IA conditions **day 6** with vest and without vest

time interval in minutes	Skin temperature vest off °C	Skin temperature vest on °C
0	32.5	32.5
5	36.5	33.5
10	37.5	34
15	38.5	35

Table A29: Working PSD's skin temperature in PSD-OD- HS-IA conditions **day 7** with vest and without vest

Time interval	Vest off temperature (°C)	Vest on temperature (°C)
0	37.5	35
5	37	35.5
10	37	36.5
15	37	37

Table A30: Retired PSD's skin temperature in PSD-OD- HS-IA conditions **day 7** with vest and without vest

Time interval in minutes	Vest off temperature (°C)	Vest on temperature (°C)
0	38	36
5	41	37
10	42.5	38
15	43	38.5

## Appendix II

Table A31: Single factor ANOVA analysis on average core body temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition for Dog 2 day 2

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	6.25E-06	1	6.25E-06	0.001084	0.974195	4.60011
Within Groups	0.080687	14	0.005763			
Total	0.080694	15				

Table A32: Single factor ANOVA analysis on average core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition for Dog 2 day 2

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	0.9	1	0.9	1.524706	0.251944	5.317655
Within Groups	4.722222	8	0.590278			
Total	5.622222	9				

Table A33: Single factor ANOVA analysis on average core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-IA condition for Dog 2 day 2

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	0.03125	1	0.03125	0.777847	0.390858	4.493998
Within Groups	0.6428	16	0.040175			
Total	0.67405	17				

Table A34: Single factor ANOVA analysis on average core body temperature of with ballistic vest and without any ballistic vest in PSD-OD- HS-IA condition for Working PSD.

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	1.50721	5	1.50721	15.6949	0.0005	4.25967
Within Groups	2.30476	9	0.09603	2	8	7
Total	3.81198	14				

Table A35: Single factor ANOVA analysis on average skin temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition for Dog 2, day 2.

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	0.140625	1	0.140625	0.089673	0.768993	4.60011
Within Groups	21.95486	14	1.568204			
Total	22.09549	15				

Table A36: Single factor ANOVA analysis on average skin temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition for Dog 2, day 2.

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	0.9	1	0.9	1.524706	0.251944	5.317655
Within Groups	4.722222	8	0.590278			
Total	5.622222	9				

Table A37: Single factor ANOVA analysis on average skin temperature of with ballistic vest and without any ballistic vest in OD-Hot HS-LA condition for Dog 1, day 5.

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	12.5	1	12.5	3.125	0.127517	5.987378
Within Groups	24	6	4			
Total	36.5	7				



### Appendix III

Table A38: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 core body temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition Day 3.

	vest on temperature	Vest off temperature
slope	-0.005362637	-0.000912088
n	13	13
SE (reg)	0.028526938	0.095103656
SE (slope)	0.000422911	0.00140991
Difference		0.004450549
SE (difference)		0.001471972
t-stat		3.023528703
df		22
p		0.006244295

Table A39: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 2 core body temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition Day 2.

	Vest off temperature	Vest on Temperature
slope	0.004571429	0.002309524
n	8	8
SE (re)	0.065392587	0.067684199
SE (slope)	0.002018059	0.00208878
difference		0.002261905
SE (difference)		0.002904404
t-stat		0.778784457
df		14
p		0.449070562

Table A40: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition Day 3.

	vest on temperature	Vest off temperature
slope	0.005142857	0.003257143
n	6	6
SE(reg)	0.014392458	0.01266792
SE(slop)	0.000688091	0.000605642
Difference		0.001885714
Difference(se)		0.000916664
t-stat		2.057149796
df		10
p		0.066704915

Table A41: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 2 core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition Day 2

	vest on temperature	Vest off temperature
slope	0.0158	-0.0112
n	5	5
SE(reg)	0.184128578	0.30161786
SE(slop)	0.011645314	0.019075988
Difference		0.027
SE(difference)		0.022349646
t-stat		1.208072838
df		10
p		0.254812573

Table A42: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 core body temperature of with ballistic vest and without any ballistic vest in OD-Hot HS-LA condition Day 5-morning

	Temperature with ballistic vest	Temperature without vest
slope	0.013679121	0.018786813
n	14	14
SE(RE)	0.042391426	0.542432825
SE(slope)	0.000562105	0.007192589
Difference		0.005107692
SE(Difference)		0.00721452
t-stat		0.707973943
df		26
p		0.485260332

Table A43: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-IA condition Day 7.

	temperature w vest	temperature wo vest
slope	0.041583333	0.029833333
n	16	16
SE(RE)	0.039276189	0.022017309
SE (slope)	0.007170818	0.004019792
Difference		0.01175
SE(Difference)		0.008220667
tstat		1.429324418
df		30
p		0.163242359

Table A44: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 core body temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-IA condition Day 7.

	temperature w vest	temperature wo vest
slope	0.020323529	0.030808824
n	16	16
SE(RE)	0.039064426	0.031703226
SE(slope)	0.002118566	0.001719349
Difference		0.010485294
Difference(slope)		0.002728458
tstat		3.842937923
df		32
p		0.000543344

Table A45: T-stat analysis by Excel formula to evaluate significant slope difference of PSD retired dog's core body temperature of with ballistic vest and without any ballistic vest in PSD-OD-HS-IA condition Day 8.

	core temp without vest	core temp with vest
slope	0.08457788	0.076371073
n	13	13
Se(re)	0.05874893	0.056590493
Se(slope)	0.003831731	0.003690953
Difference		0.008206806
SE(Difference)		0.005320272
t-stat		1.542553974
df		24
p		0.136022874

Table A46: T-stat analysis by Excel formula to evaluate significant slope difference of PSD working dog's core body temperature of with ballistic vest and without any ballistic vest in PSD-OD-HS-IA condition Day 8.

	Core temperature without vest	core temperature with vest
slope	0.086269634	0.04372055
n	13	13
Se(re)	0.060491797	0.077238046
Se(slope)	0.003945404	0.00503763
Difference		0.042549084
Difference (slope)		0.006398744
t-stat		6.649598849
df		24
p		7.05678E-07

Table A47: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 skin temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition Day 3.

	temperature vest on	temperature vest off
slope	-0.004252747	0.03810989
n	13	13
SE (re)	0.119597853	0.352789936
SE (slope)	0.001773037	0.005230106
Difference	0.042362637	
SE (difference)	0.005522469	
t-stat	7.670959323	
df	24	
p	6.58316E-08	

Table A48: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 2 skin temperature of with ballistic vest and without any ballistic vest in ID-AC-RA condition Day 2.

	Vest off indoor (resting)	Vest on resting temp (indoor)
Slope	-0.113888889	-0.083333333
n	8	8
SE(re)	0.323345742	0.263523138
SE(slope)	0.009978666	0.008132501
Difference		0.030555556
Difference(slope)		0.012872892
tstat		2.37363568
df		14
p		0.032465623

Table A49: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 skin temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition Day 3.

	Vest on temperature	Vest off temperature
slope	0.040057143	0.030628571
n	6	6
SE(re)	0.238580125	0.098120431
SE(slope)	0.011406312	0.004691054
difference	0.009428571	
difference(slope)	0.012333286	
stat	0.764481728	
df	10	
p	0.46223853	

Table A50: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 2 skin temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-RA condition Day 2.

	Vest off outdoor	Vest on outdoor
slope	0.09	0.083333333
n	5	5
SE(re)	0.56355354	0.052704628
Se(slope)	0.035642255	0.003333333
Difference	0.006666667	
difference(slope)	0.035797786	
tstat	0.186231257	
df	8	
p	0.856899073	

Table A51: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 skin temperature of with ballistic vest and without any ballistic vest in OD-Hot HS-LA condition Day 5 morning.

	Skin temperature vest on	Skin temperature vest off
Slope	0.079918033	0.042213115
n	7	7
SE (re)	0.172374925	0.246699525
SE (slope)	0.005839265	0.008357039
Difference	0.037704918	
SE(Difference)		0.010194955
t-stat		3.698389733
df		12
p		0.003044718

Table A52: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 1 skin temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-IA condition Day 6.

	Skin temperature vest on °C	Skin temperature vest off °C
slope	0.16	0.43
n	4	4
SE(RE)	0.158113883	0.536190265
SE (slope)	0.014142136	0.047958315
Difference		0.27
SE(Difference)		0.05
t-stat		5.4
df		6
n		0.001663887

Table A53: T-stat analysis by Excel formula to evaluate significant slope difference of Dog 2 skin temperature of with ballistic vest and without any ballistic vest in OD-Avg HS-IA condition Day 6.

	Vest covered Temperature	Uncovered temperature
slope	0.16	0.38
n	4	4
SE (re)	0.158113883	1.161895004
SE (slope)	0.014142136	0.103923048
Difference		0.22
SE(Difference)		0.104880885
t-stat		2.097617696
df		6
n		0.080743213

Table A54: T-stat analysis by Excel formula to evaluate significant slope difference of retired PSD skin temperature of with ballistic vest and without any ballistic vest in PSD-OD- HS-IA condition Day 7

	Temperature vest on	Temperature vest off
slope	0.17	0.33
n	4	4
SE (re)	0.193649167	0.887411967
SE (slope)	0.031142055	0.142710824
Difference		0.16
SE(Difference)		0.146069185
t-stat		1.095371345
df		6
p		0.315363429



Table A55: T-stat analysis by Excel formula to evaluate significant slope difference of working PSD skin temperature of with ballistic vest and without any ballistic vest in PSD-OD- HS-IA condition Day 7.

	Temperature vest on	Temperature vest off
Slope	0.14	-0.03
n	4	4
SE (re)	0.158113883	0.193649167
SE (slope)	0.014142136	0.017320508
Difference		0.17
SE(Difference)		0.02236068
t-stat		7.602631123
df		6
p		0.000269641