

Supplementary Table S1: Main Effects of Group and Time Factors

Time	Incidence of hypothermia		Unadjusted OR (95% CI)		Adjusted OR (95% CI) ^a	
	Control (n=104) , n (%)	Multimodal (n=102), n (%)	Group Effect	Time effect	Group Effect	Time effect
T1	13 (12.5)	14 (13.7)	0.28 (0.16, 0.50) ***	1.00	0.47 (0.26, 0.90) *	
T2	17 (16.3)	17 (16.7)		1.34 (0.98, 1.83)		1.29 (1.00, 1.67) *
T3	39 (37.5)	33 (32.4)		3.92 (2.54, 6.04) ***		3.83 (2.52, 5.80) ***
T4	48 (46.2)	46 (45.1)		6.33 (4.02, 9.96) ***		6.54 (4.17, 10.30) ***
T5	63 (60.6)	49 (48.0)		9.20 (5.70, 14.90) ***		10.10 (6.17, 16.60) ***
T6	69 (66.3)	51 (50.0)		10.90 (6.67, 17.70) ***		12.40 (7.42, 20.60) ***
T7	70 (67.3)	50 (49.0)		10.90 (6.62, 17.90) ***		12.40 (7.37, 20.70) ***
T8	71 (68.3)	43 (42.2)		9.59 (5.75, 16.00) ***		10.60 (6.29, 18.00) ***
T9	74 (71.2)	36 (35.3)		8.82 (5.31, 14.70) ***		9.64 (5.70, 16.30) ***
T10	77 (74.0)	34 (33.3)		9.01 (5.38, 15.10) ***		9.88 (5.83, 16.70) ***
T11	72 (69.2)	28 (27.5)		7.17 (4.25, 12.10) ***		7.56 (4.47, 12.80) ***

^a Adjust the baseline patient temperature (before entering the room, T0) for the model. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Supplementary Table S2: Individual Effects of Group Factors

Time	Incidence of hypothermia		Unadjusted OR	Adjusted OR
			(95% CI)	(95% CI) ^a
	Control (n=104), n (%)	Multimodal (n=102), n (%)		
T1	13 (12.5)	14 (13.7)	1.11 (0.50, 2.50)	1.40 (0.57, 3.43)
T2	17 (16.3)	17 (16.7)	1.02 (0.49, 2.14)	1.17 (0.52, 2.64)
T3	39 (37.5)	33 (32.4)	0.80 (0.45, 1.42)	0.74 (0.38, 1.44)
T4	48 (46.2)	46 (45.1)	0.96 (0.55, 1.66)	0.89 (0.47, 1.71)
T5	63 (60.6)	49 (48.0)	0.60 (0.35, 1.05)	0.51 (2.57, 1.02)
T6	69 (66.3)	51 (50.0)	0.51 (0.29, 0.89) *	0.42 (0.20, 0.85) *
T7	70 (67.3)	50 (49.0)	0.47 (0.27, .0.82) **	0.38 (0.18, 0.79) **
T8	71 (68.3)	43 (42.2)	0.34 (0.19, 0.82) ***	0.26 (0.12, 0.54) ***
T9	74 (71.2)	36 (35.3)	0.22 (0.12, 0.40) ***	0.16 (0.07, 0.32) ***
T10	77 (74.0)	34 (33.3)	0.18 (0.10, 0.32) ***	0.12 (0.06, 0.25) ***
T11	72 (69.2)	28 (27.5)	0.17 (0.09, 0.31) ***	0.12 (0.06, 0.24) ***

^a Adjust the baseline patient temperature (before entering the room, T0) for the model.

* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Supplementary Table S3: The Individual Effect of Time Factor

Group	Incidence of hypothermia	Unadjusted OR (95% CI)	Adjusted OR (95% CI) ^a
Control (n=104)			
T1	13 (12.5)	1.00	1.00
T2	17 (16.3)	1.37 (0.94, 1.99)	1.47 (0.94, 2.31)
T3	39 (37.5)	4.20 (2.50, 7.06)	5.82 (3.17, 10.70) ***
T4	48 (46.2)	6.00 (3.46, 10.40)	8.98 (4.72, 10.70) ***
T5	63 (60.6)	10.80 (5.94, 19.50)	10.82 (9.08, 36.50) ***
T6	69 (66.3)	13.80 (7.48, 25.50)	2.45 (12.00, 50.00) ***
T7	70 (67.3)	14.40 (7.78, 26.70)	25.80 (12.50, 53.20) ***
T8	71 (68.3)	15.10 (8.10, 28.00)	27.20 (13.20, 56.10) ***
T9	74 (71.2)	17.30 (9.18, 32.50)	32.00 (15.20, 66.80) ***
T10	77 (74.0)	20.00 (10.50, 38.00)	38.00 (18.00, 80.30) ***
T11	72 (69.2)	15.70 (8.05, 30.80)	28.70 (13.10, 62.90) ***
Multimodal (n=102)			
T1	14 (13.7)	1.00	1.00
T2	17 (16.7)	1.26 (0.85, 1.86)	1.24 (0.86, 1.78)
T3	33 (32.4)	3.01 (1.73, 5.23) ***	3.08 (1.73, 5.48) ***
T4	46 (45.1)	5.16 (2.91, 9.15) ***	5.77 (3.10, 10.70) ***
T5	49 (48.0)	5.81 (3.18, 10.60) ***	6.65 (3.44, 12.90) ***
T6	51 (50.0)	6.29 (3.42, 11.50) ***	7.31 (3.76, 14.20) ***
T7	50 (49.0)	6.04 (3.24, 11.30) ***	6.97 (3.51, 13.80) ***
T8	43 (42.2)	4.58 (2.35, 8.92) ***	5.01 (2.46, 10.20) ***
T9	36 (35.3)	3.43 (1.78, 6.59) ***	3.58 (1.80, 7.10) ***
T10	34 (33.3)	3.14 (1.61, 6.15) ***	3.24 (1.62, 6.47) ***
T11	28 (27.5)	2.38 (1.23, 4.62) *	2.38 (1.22, 4.62) *

^a Adjust the baseline patient temperature (before entering the room, T0) for the model.

* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Sensitivity analysis results: Age and BMI were further adjusted in the GEE model.

Supplementary Table S4: Sensitivity analysis results of multi-mode body temperature protection on the incidence of hypothermia

Time	Incidence of hypothermia		Adjust Model 1			Adjust Model 2		
			OR (95% CI) ^a			OR (95% CI) ^b		
	Control (n=104), n (%)	Intervention (n=102), n (%)	Group effect	Time effect	Group * Time Effect	Group effect	Time effect	Group * Time Effect
T1	13 (12.5)	14 (13.7)	1.27 (0.50, 3.26)	1.00	1.00	1.15 (0.46, 2.89)	1.00	1.00
T2	17 (16.3)	17 (16.7)		1.47 (0.94, 2.30)	0.85 (0.47, 1.54)		1.48 (0.94, 2.30)	0.86 (0.47, 1.57)
T3	39 (37.5)	33 (32.4)		5.86 (3.16, 10.90) ***	0.56 (2.38, 1.33)		5.87 (3.19, 10.80) ***	0.58 (0.25, 1.39)
T4	48 (46.2)	46 (45.1)		9.09 (4.70, 17.60) ***	0.71 (0.28, 1.76)		9.11 (4.71, 17.60) ***	0.74 (0.30, 1.86)
T5	63 (60.6)	49 (48.0)		18.70 (9.06, 38.50) ***	0.40 (0.15, 1.06)		18.70 (9.07, 38.50) ***	0.42 (0.15, 1.13)
T6	69 (66.3)	51 (50.0)		25.40 (12.10, 53.30) ***	0.32 (0.12, 0.88) *		25.30 (12.10, 53.00) ***	0.34 (0.13, 0.93) *
T7	70 (67.3)	50 (49.0)		26.70 (12.60, 56.70) ***	0.29 (0.11, 0.82) *		26.70 (12.60, 56.60) ***	0.31 (0.11, 0.87) *
T8	71 (68.3)	43 (42.2)		28.20 (13.30, 59.80) ***	0.20 (0.06, .056) **		28.20 (13.30, 59.80) ***	0.21 (0.07, 0.59) **
T9	74 (71.2)	36 (35.3)		33.30 (15.50, 71.60) ***	0.16 (0.04, 0.33) ***		33.30 (15.50, 71.30) ***	0.12 (0.04, 0.34) ***
T10	77 (74.0)	34 (33.3)		39.80 (18.30, 86.60) ***	0.08 (0.03, 0.25) ***		39.60 (18.30, 85.80) ***	0.09 (0.03, 0.26) ***
T11	72 (69.2)	28 (27.5)		29.80 (13.20, 67.10) ***	0.08 (0.03, 0.25) ***		29.80 (13.30, 66.60) ***	0.09 (0.03, 0.25) ***

^a Model 1 adjusts the baseline patient temperature (before entering the room, T0) and age.

^b Model 2 adjusts the baseline patient temperature (T0 before entering the room), age, and BMI.

* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

Supplementary Table S5. Effect of Multimodal Intervention on Hypothermia Incidence upon Leaving OR

	Control (n=104)	Multimodal (n=102)	OR (95% CI) ^a	<i>P</i> -value
Hypothermia			0.12 (0.06, 0.24)	0.000***
No	32 (30.77)	74 (72.55)		
Yes	72 (69.23)	28 (27.45)		

^aModel adjusted for baseline patient temperature (T0). *P < 0.05, **P < 0.01, ***P < 0.001.

Supplementary Table S6. Comparison of Intraoperative Fluid Balance Between Groups

	Control (n=104)	Multimodal (n=102)	<i>z</i> -value	<i>P</i> -value
Liquid input volume	2850 (2350, 3600)	2875 (2350, 3600)	-0.901	0.368
Blood loss	300 (300, 400)	300 (300, 400)	-0.321	0.748
Urine output	900 (500, 1600)	900 (538, 1763)	-0.272	0.785

Data are median (IQR).

Supplementary Table S7. Comparison of Postoperative Pain Intensity Between Groups

	Control	Multimodal	χ^2 -value	<i>P</i> -value
24 hours post-operation (n=195)			0.669	0.414
Painless	9 (9.00)	12 (12.63)		
Mild or above pain	91 (91.00)	83 (87.37)		
48 hours post-operation (n=206)			4.068	0.044*
Painless	5 (4.81)	13 (12.75)		
Mild or above pain	99 (95.19)	89 (87.25)		

*P < 0.05, **P < 0.01, ***P < 0.001.

Supplementary Table S8. Comparison of Postoperative Length of Stay

	Control (n=104)	Multimodal (n=102)	<i>z</i> -value	<i>P</i> -value
Time interval from surgery to discharge (days)	8 (6, 10)	8 (7, 12)	-1.016	0.310

Data are median (IQR).