

Supplementary File 2

Table S1: Post-hoc analysis of self-reported exercise-induced breast pain (EIBP) (mm) (0 = no pain, 100 = extreme pain).

Breast Support Condition	Median (IQR) EIBP (mm)
Walk	
Bare Breast	2 (4) ^{ai}
Everyday Bra	1.5 (1.9) ^{ab}
Encapsulation Sports Bra	1 (1.4) ^{bedk}
Combination Sports Bra	1 (1) ^{bed}
Trot	
Bare Breast	19.75 (18) ^e
Everyday Bra	4 (5.5) ^{fg}
Encapsulation Sports Bra	1.75 (9.3) ^{gfh}
Combination Sports Bra	1.25 (2.4) ^{fh}
Canter	
Bare Breast	4 (12.1) ^{aij}
Everyday Bra	2.75 (6.8) ^{fij}
Encapsulation Sports Bra	1.5 (2.4) ^{cgkl}
Combination Sports Bra	1.5 (1.5) ^{kl}
Treadmill Running	
Bare Breast	67.25 (30.3) ^m
Everyday Bra	13 (30.3) ⁿ
Encapsulation Sports Bra	6 (7.5) ^{gop}
Combination Sports Bra	2 (3.3) ^{op}

Table S2: Post-hoc analyses of relative vertical breast displacement (RBDZ) (BB = bare-breasted, EB = everyday bra, ESB = encapsulation sports bra, CSB = combination sports bra). Bold and * indicate significance at $\alpha = 0.008$.

Support and gait	BB W	EB W	ESB W	CSB W	BB T	EB T	ESB T	CSB T	BB C	EB C	ESB C	CSB C	BB TM	EB TM	ESB TM	CSB TM
BB W		0.108	0.259	0.039												
EB W	0.108		0.794	0.23												
ESB W	0.259	0.794		0.149												
CSB W	0.039	0.23	0.149													
BB T						0.263	0.014	0.002*								
EB T					0.263		0.068	<0.001*								
ESB T					0.014	0.068		0.192								
CSB T					0.002*	<0.001*	0.192									
BB C										0.411	0.566	0.014				
EB C									0.411		0.106	0.008*				
ESB C									0.566	0.106		0.079				
CSB C									0.014	0.008*	0.079					
BB TM														0.002*	<0.001*	<0.001*
EB TM													0.002*		<0.001*	<0.001*
ESB TM													<0.001*	<0.001*		0.01
CSB TM													<0.001*	<0.001*	0.01	

Table S3: Post-hoc analysis of dorsoventral relative breast displacement (RBDY) (cm).

Support and gait	BB C	EB C	ESB C	CSB C	BB TM	EB TM	ESB TM	CSB TM
BB W								
EB W								
ESB W								
CSB W								
BB T								
EB T								
ESB T								
CSB T								
BB C		0.411	0.566	0.014				
EB C	0.411		0.106	0.008*				
ESB C	0.566	0.106		0.079				
CSB C	0.014	0.008*	0.079					
BB TM						0.002*	<0.001*	
EB TM					0.002*		<0.001*	<0.001*
ESB TM					<0.001*	<0.001*		0.01
CSB TM					<0.001*	<0.001*	0.01	