

**Electronic Supplementary Material**

Table 1a-c: Intercorrelations between working memory parameters and change in cortisol ( $\Delta\text{cort}$ )

**a) Overall sample (N=75)**

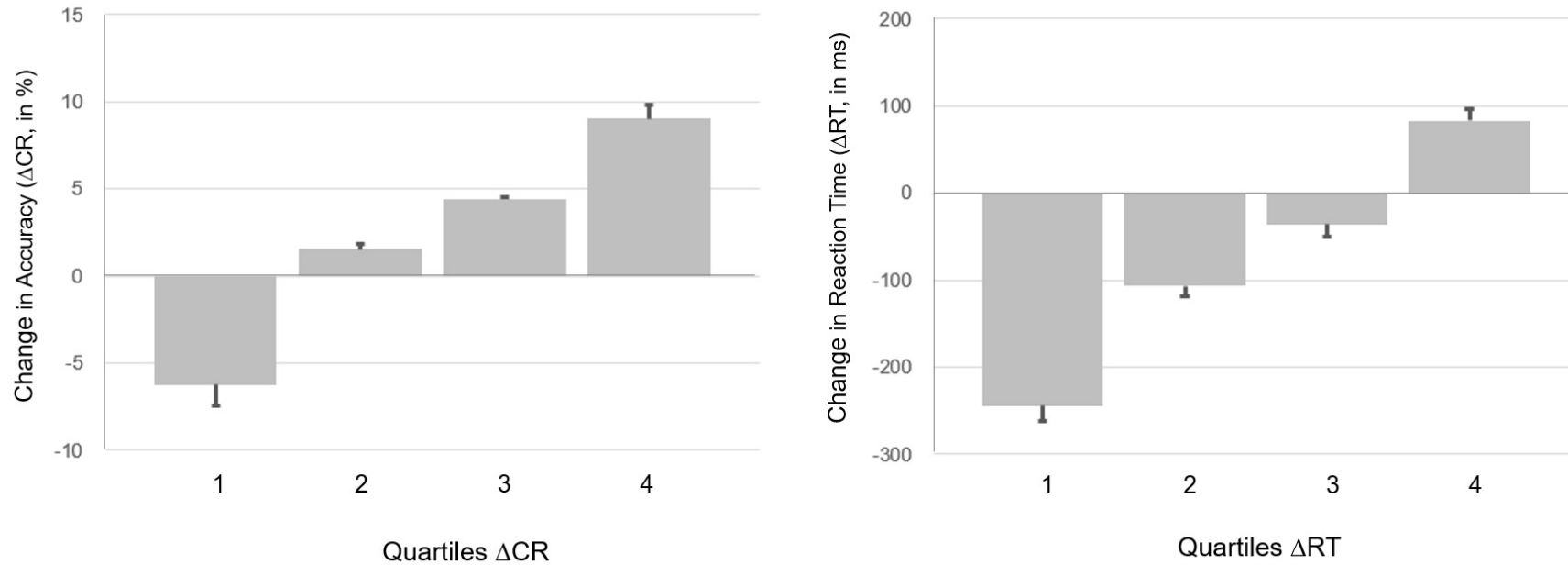
		$\Delta\text{cort}$	CRpre	CRpost	$\Delta\text{CR}$	RTpre	RTpost	$\Delta\text{RT}$
$\Delta\text{cort}$	<i>r</i>	1						
	<i>p</i>							
CRpre	<i>r</i>	.04	1					
	<i>p</i>	.75						
CRpost	<i>r</i>	.04	<b>.59**</b>	1				
	<i>p</i>	.73	<b>0.00</b>					
$\Delta\text{CR}$	<i>r</i>	.01	<b>-.23*</b>	<b>.65**</b>	1			
	<i>P</i>	.91	<b>.05</b>	<b>.001</b>				
RTpre	<i>r</i>	.18	-.06	-.13	-.10	1		
	<i>p</i>	.12	.62	.27	.40			
RTpost	<i>r</i>	.16	.00	-.15	-.17	<b>.84**</b>	1	
	<i>p</i>	.17	.98	.21	.14	<b>.001</b>		
$\Delta\text{RT}$	<i>r</i>	-.03	.09	-.04	-.13	<b>-.26*</b>	<b>.31**</b>	1
	<i>p</i>	.78	.42	.75	.26	<b>.02</b>	<b>.01</b>	

**b) Women (n=43)**

		$\Delta\text{cort}$	CRpre	CRpost	$\Delta\text{CR}$	RTpre	RTpost	$\Delta\text{RT}$
$\Delta\text{cort}$	<i>r</i>	1						
	<i>p</i>							
CRpre	<i>r</i>	.19	1					
	<i>p</i>	.22						
CRpost	<i>r</i>	<b>.39**</b>	<b>.45**</b>	1				
	<i>p</i>	<b>.01</b>	<b>.001</b>					
$\Delta\text{CR}$	<i>r</i>	.25	<b>-.34*</b>	<b>.69**</b>	1			
	<i>p</i>	.10	<b>.03</b>	<b>.001</b>				
RTpre	<i>r</i>	.07	-.12	-.05	.04	1		
	<i>p</i>	.66	.44	.74	.79			
RTpost	<i>r</i>	.03	-.03	-.07	-.04	<b>.85**</b>	1	
	<i>p</i>	.84	.83	.66	.78	0.00		
$\Delta\text{RT}$	<i>r</i>	-.06	.15	-.03	-.16	-.21	<b>.36*</b>	1
	<i>p</i>	.69	.34	.84	.32	.19	<b>.02</b>	

**c) Men (n=32)**

		$\Delta$ cort	CRpre	CRpost	$\Delta$ CR	RTpre	RTpost	$\Delta$ RT
$\Delta$ cort	<i>r</i>	1						
	<i>p</i>							
CRpre	<i>r</i>	-.12	1					
	<i>p</i>	.52						
CRpost	<i>r</i>	<b>-.36*</b>	<b>.72**</b>	1				
	<i>p</i>	<b>.04</b>	<b>.001</b>					
$\Delta$ CR	<i>r</i>	<b>-.38*</b>	-.09	<b>.63**</b>	1			
	<i>p</i>	<b>.03</b>	.63	<b>.001</b>				
RTpre	<i>r</i>	<b>.40*</b>	0.00	-.25	<b>-.36*</b>	1		
	<i>p</i>	<b>.02</b>	1.00	.16	<b>.04</b>			
RTpost	<i>r</i>	<b>.43*</b>	.01	-.29	<b>-.43*</b>	<b>.82**</b>	1	
	<i>p</i>	<b>.01</b>	.95	.10	<b>0.01</b>	<b>0.00</b>		
$\Delta$ RT	<i>r</i>	.02	.02	-.05	-.09	<b>-.37*</b>	.23	1
	<i>p</i>	.93	.91	.81	.63	<b>.04</b>	.20	



*Figure 1 ESM:* Changes in correct responses of the n-back working memory task before and after stress ( $\Delta$ CR, left) and reaction time ( $\Delta$ RT, right), illustrated as quartiles. The x-axis shows the subjects ( $n=75$ , both men and women) in quartiles 1 to 4 in terms of change in accuracy (in percent, left panel), and change in reaction time (in msec, right panel). Error bars shown are standard error of mean.