

Supplemental Material.

## **QST Script**

Instructions for performing QST in children and adolescents (adapted from Blankenberg et al., 2010 and Cornelissen et al., 2014).

### **General Instructions**

*In the following tests, we will explore, using various procedures, how you perceive temperature changes as well as touch stimuli. In addition, we will examine the point at which different test stimuli are perceived as painful. If you have not understood the test instructions, please feel free to immediately ask for clarification.*

### **Mechanical Detection Threshold**

*This is a test of your ability to detect light touch. I will press these nylon hairs to the skin on your hand. Please tell me if you feel it or not”*

### **Mechanical Pain Threshold**

*This is a test of your ability to detect a ‘sharp’ sensation. I will gently touch your hand with the Pinpricks. If you feel the Pinprick touching your skin without any pricking or stinging, say ‘blunt’. Please say ‘sharp’ immediately if it feels like a ‘sharp’, ‘pricking’ or ‘stinging’ sensation.*

### **Mechanical Pain Sensitivity and Dynamic Mechanical Allodynia**

*I will touch your hand with the Pinpricks and gently moving stimuli. After each stimuli, give me a number between 0-10 for how much it hurt where 0 means ‘no pain’ and 10 means the ‘worst pain you could imagine’.*

### **Wind-Up Ratio**

Participants will be given the following instructions before receiving a single Pinprick: *I will now touch your hand with a single Pinprick. After, give me a number between 0-10 for how much it hurt where 0 means 'no pain' and 10 means the 'worst pain you could imagine.'*

Once the participant has rated the single pinprick stimulus, the following instructions will be given: *I will now touch your hand using the Pinprick 10 times in a row. After, give me a number between 0-10 for how much it hurt where 0 means 'no pain' and 10 means the 'worst pain you could imagine'.* We will then repeat this two more times.

### **Thermal Tasks**

*The device placed on your skin is able to both warm and cool the skin. In addition, you have been given a stop button that enables you to immediately stop the ongoing test stimulus at any time. For every test, I will explain to you when to use the stop button."*

### **Cool Detection Threshold**

*Please press the stop button at the point where you start to feel the change in temperature. This procedure will be performed a total of four times."* Once pressed, the participant will be asked, *"What did you feel?"* Instructions are repeated before each trial once the thermode has returned to baseline temperature.

### **Warm Detection Threshold**

*Please press the stop button at the point where you start to feel the change in temperature. This procedure will be performed a total of four times."* Once pressed, the participant will be asked, *"What did you feel?"* Instructions are repeated before each trial once the thermode has returned to baseline temperature.

### **Cold Pain Threshold**

*The temperature of the skin will go down from 'cool' to 'cold'. Please press the stop button immediately as soon as it feels so cold you don't want it on your skin anymore, like holding ice or a Popsicle.*

### **Heat Pain Threshold**

*The temperature of the skin will go from 'warm' to 'hot'. Please press the stop button as soon as the temperature feels so hot you don't want it on your skin anymore, like holding a cup of hot coffee or hot chocolate.*

Supplementary Material.

Table 1. *Correlations among demographic, clinical and psychosocial variables and QST parameters in survivors of childhood cancer*

Variable	CDT	WDT	CPT	HPT	MDT	MPT	MPS	WUR	DMA
Age at participation	0.01	0.00	-0.07	-0.32*	-0.07	-0.21	-0.47**	0.28	0.05
Sex	0.21	0.11	-0.10	-0.17	-0.30*	0.03	0.00	0.08	-0.13
Age at diagnosis	0.21	0.25	-0.04	0.11	0.07	-0.05	-0.15	-0.10	0.09
Time since treatment completion	-0.15	-0.21	0.04	-0.32*	-0.11	-0.21	-0.22	0.26	0.00
Intensity of treatment	0.07	0.12	-0.05	0.00	-0.03	0.19	0.16	0.06	0.22
Platinum agents	0.11	0.11	-0.01	-0.17	-0.12	-0.15	-0.04	-0.16	-0.06
Glucocorticoids	0.10	0.01	-0.21	0.11	0.03	0.02	0.05	-0.12	0.11
Vincristine	-0.02	-0.01	0.05	0.14	0.03	-0.03	0.18	-0.23	0.08
Vincristine (cumulative dose)	-0.01	0.06	-0.31*	-0.02	0.09	0.29*	0.09	0.08	-0.09
Radiation therapy	-0.06	0.00	0.12	0.09	0.14	-0.06	0.08	-0.18	0.27
Surgery	0.11	-0.03	0.34*	0.08	-0.03	-0.28*	-0.13	-0.26	-0.12
Bone marrow/stem cell transplant	-0.03	0.00	-0.07	-0.15	-0.15	0.04	0.18	-0.12	0.37**
Anxiety	0.06	0.01	0.06	-0.11	-0.03	0.27*	-0.10	0.41**	-0.09
Pain catastrophizing	0.01	0.09	0.38**	0.12	-0.11	0.02	-0.07	0.24	-0.14

Note. CDT, cold detection threshold; WDT, warm detection threshold; CPT, cold pain threshold; HPT, heat pain threshold; MDT, mechanical detection threshold; MPT, mechanical pain threshold; MPS, mechanical pain sensitivity; WUR, wind up ratio. \*  $p < 0.05$ ; \*\*  $p < 0.01$ .