Supplementary Table 1

Data from exit questionnaire on imagery strategies

	Quality of imagery (0-10)		Tactile sensation (0-10)		% of time imagery worked		Description of imagery		
Subject	hand	foot	hand	foot	hand	foot	hand	foot	
S01	7	6	3	2	79	64	Warm touch remembered from real touch	Same as hand but translated to foot	
S05	7	7	8	8	*	*	I tried to imagine touch	I tried to imagine touch	
S07	7	6	2	3	*	*	I mostly directed attention to the respective spot and tried to imagine the sensation	I mostly directed attention to the respective spot and tried to imagine the sensation	
S04	6	6	4	5	*	*	I tried to imagine stimulation from the piezo stimulator during the imagination	I tried to imagine stimulation from the piezo stimulator during the imagination $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$	
S03	8	7	8	6	70	80	Hot feeling across the hand	Hot feeling across the foot	
S06	7	7	5	5	*	*	My strategy was to imagine pinpricks similar to the piezo stimulation on my hand and foot (although this was more difficult on the foot)	My strategy was to imagine pinpricks similar to the piezo stimulation on my hand and foot (although this was more difficult on the foot)	
S02	7	7	7	7	75	75	Imagine like warm water flowing all around my hand	Imagine like warm water flowing all around foot	
S09	6	7	4	3	69	58	Paint-brush on top of hand stroking each finger one at a time, starting from lateral side moving medially	Paint-brush stroke on soleof foot-starting from lateral side moving up and down towards medial side	
S08	8	6	8	6	94	84	heat (mainly in the palm of my hand)	heat (mainly in the middle part of the sole of foot)	
S10	6	7	4	4	98	98	I imagined being massaged with strong circular thumb finger movement on the inner side of my palm.	I imagined being massaged with strong circular thumb finger movement on the inner (soft) side of my foot.	
* data missing due to a mistake									

Supplementary table 2: Number of functional voxels for each anatomical region and probability level.

Supplementary Table 2
Number of functional voxels for each
anatomical region and probability level

anatomical region and probability level							
		Area	a				
Probability							
Level (%)		S1		S2			
	100		451		5		
	90		1031		169		
	80		1701		500		
	70		2556		917		
	60		3721		1444		
	50		4986		2124		
	40		6373		2816		
	30		8232		3673		
	20		10638		5011		
	10		14543		7254		

Supplementary table 3: Average decoding accuracy for each anatomical region and probability level based on cross validation with N-1 training runs and 1 test run.

## **Supplementary Table 3**

Average decoding accuracy for each anatomical region and probability level based on crossvalidation with N-1 training runs and 1 test run.

Areas						
Probability						
Level (%)	S1		S2			
100		0.67		0.51		
90		0.73		0.60		
80		0.74		0.64		
70		0.76		0.66		
60		0.78		0.69		
50		0.80		0.70		
40		0.81		0.71		
30		0.81		0.73		
20		0.82		0.73		
10		0.82		0.73		