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Fig. E-2

Fig. E-1

Photographs of handheld computers demonstrating the Matching to Sample test. Sample image to be memorized (left) and options for matching to the sample (right) are shown on the monitor of the handheld computer.

Fig. E-2

Photograph of a handheld computer demonstrating the Spatial Processing test, in which two four-bar histograms are shown on the monitor of the handheld computer.

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TABLE E-1 Demographic Characteristics of Study Participants

Group	Age* (yr)	Male Participants (%)
Residents $(n = 16)$	31 (29 to 37)	12 (75)
Fellows $(n = 10)$	34 (31 to 37)	10 (100)
Attending surgeons $(n = 6)$	45 (38 to 56)	6 (100)
All $(n = 32)$	35 (31 to 56)	28 (88)

^{*}The values are given as the mean, with the range in parentheses.

TABLE E-2 Tests Administered

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	First Test Period*	Second Test Period†	
Test	(January to February 2008)	(September to October 2008)	
Matching to Sample	No	Yes	
Running Memory	Yes	Yes	
Spatial Processing	Yes	Yes	
Simple Reaction Time	Yes	Yes	
Mathematical Processing	Yes	No	
Pursuit Tracking	Yes	No	

^{*}The first test period was thirty days. †The second test period was twenty-six days.