

Learning scenarios

Scenario	Task	Score
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Scenario 1

Image used:
X-ray of
elbow
frontal/profile

Starting point: X-ray frontal view	Open session (hand waving like in all following session openings)	0
	Zoom on elbow:	
	Selection	1
	Utilization	1
	Quit	1

	Close session	0
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Max. score 3

Scenario 2

Image used:
X-ray of
elbow
frontal/profile

Starting point: X-ray profile	Open session	0
	Zoom in on image:	
	Selection	1
	Utilization	1
	Quit	1

	Increase contrast:	
	Selection	1
	Utilization	1
	Quit	1

	Reset view:	
	Utilization	1

	Close session	0
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Max. Score 9

Scenario 3

Image used:
X-ray of
elbow
frontal/profile

Starting point: X-ray profile view	Open session	0
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	Selection X-ray profile:	
	Selection	1
	Utilization	1
	Quit	1

	Centering of image on radial head:	
	Selection	1
	Utilization	1
	Quit	1

	Zoom on radial head:	
	Selection	1
	Utilization	1
	Quit	1

	Close session	0
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Max. score 9

Scenario 4

Image used:
X-ray of
elbow
frontal/profile
+ CT elbow

Starting point: X-ray profile	Open session	0
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	Add sagittal view of CT:	
	Selection	1
	Utilization	1
	Quit	1

	Scroll to the fracture of radial head:	
	Selection	1
	Utilization	1
	Quit	1

	Split screen vertically:	
	Selection	1
	Utilization	1
	Quit	1

	Add image X-ray profile:	
	Selection	1
	Utilization	1
	Quit	1

	Close session	0
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Max. score 12

Scenario 5

Image used:
X-ray of
elbow
frontal/profile
+ CT elbow

Starting point: CT 3D	Open session	0
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	Rotate CT in 3D (360 deg.):	
	Selection	1
	Utilization	1
	Quit	1

	Add X-ray profile of elbow	
	Selection	1
	Utilization	1
	Quit	1

	Zoom on olecranon:	
	Selection	1
	Utilization	1
	Quit	1

Point on olecranon:
 Selection 1
 Utilization 1
 Quit 1

Starting point: CT with sagittal slice

Open session 0

Split screen vertically:
 Selection 1
 Utilization 1
 Quit 1

Zoom on elbow:
 Selection 1
 Utilization 1
 Quit 1

Close session 0

Max. score 12

Add coronal slices in the right pane:
 Selection 1
 Utilization 1
 Quit 1

Close session 0

Max. score 7

Test scenarios

Scenario	Task	Score
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Scenario 1

CT of elbow with coronal, axial slices and 3D

Starting point: CT sagittal slide	Open session (hand waving like in all following session openings)	0
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Scroll to fracture of ulna	Selection 1 Utilization 1 Quit 1	
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Zoom on fracture:	Selection 1 Utilization 1 Quit 1	
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Center on olecrane	Selection 1 Utilization 1 Quit 1	
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Close session	0	
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Max. score 9

Scenario 2

Image used: CT with coronal, axial slices and 3D

Increase contrast:	Selection 1 Utilization 1 Quit 1	
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Close session	0	
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Max. Score 9

Scenario 3

Image used: CT of elbow with coronal, axial slices and 3D

Starting point: CT with sagittal slice	Open session	0
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Selection 3D reconstruction:	Selection 1 Utilization 1 Quit 1	
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Rotate to frontal view of elbow:	Selection 1 Utilization 1 Quit 1	
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Scenario 4

Image used: X-ray of knee frontal and profile

Starting point: X-ray profile	Open session	0
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Point to patella:	Selection 1 Utilization 1 Quit 1	
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Center on letter D in image:	Selection 1 Utilization 1 Quit 1	
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Open frontal X-ray:	Selection 1 Utilization 1 Quit 1	
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Close session	0	
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Max. score 9

Scenario 5

Image used: X-ray of knee frontal and profile

Starting point: X-ray frontal	Open session	0
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Split screen vertically		
Selection	1	
Utilization	1	
Quit	1	
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Add X-ray profile		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Modify contrast of X-ray profile:		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Close session	0	
<hr/>		
Max. score	9	

Scenario 6

Image used:
X-ray of knee frontal and profile

Starting point: X-ray frontal	Open session	0
<hr/>		
Zoom		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Modify contrast:		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Reset image:		
Utilization	1	
<hr/>		
Close session	0	
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Max. score	7	

Scenario 7

Image used:
X-ray of elbow and CT

Starting point: X-ray profile	Open session	0
<hr/>		
Point on fracture:		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Center on letter D:		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Add X-ray frontal:		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Close session	0	
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Max. score	9	

Scenario 8

Image used:
X-ray elbow and CT

Starting point: X-ray frontal	Open session	0
<hr/>		
Zoom on elbow		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Decrease contrast, making X-ray more grayish		
Selection	1	
Utilization	1	
Quit	1	

Reset image:		
Utilization	1	
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Close session	0	
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Max. score	9	

Scenario 9

Image used:
X-ray profile of elbow and CT 3D

Starting point: CT 3D	Open session	0
<hr/>		
Rotate image (360 deg.):		
Selection	1	
Utilization	1	
Quit	1	
<hr/>		
Zoom		
Selection	1	
Utilization	1	
Quit	1	
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Add X-ray profile:		
Selection	1	
Utilization	1	
Quit	1	
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Close session	0	
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Max. score	9	