

Appendix Figure 1. **Example comparative interaction for a subset of a case appraisal task.** In each system, the user views a note and several laboratory result panels. See also Figure 2.

Conventional system

1a. The user clicks on the side menu and views the latest note

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55
Demographics	Primary clinic note
Notes	
Primary clinic note	
Laboratory Results	
Creatinine, urine	
BMP	
HbA1c	
Urinalysis	
BMP2	

2a. The user clicks on the labs menu and views the creatinine.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55
Demographics	Creatinine, urine
Notes	
Primary clinic note	
Laboratory Results	
Creatinine, urine	
BMP	
HbA1c	
Urinalysis	
BMP2	

3a. The user clicks on the labs menu and views the Basic Metabolic Panel.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55
Demographics	Basic Metabolic Panel
Notes	
Primary clinic note	
Laboratory Results	
Creatinine, urine	
BMP	
HbA1c	
Urinalysis	
BMP2	

4a. The user clicks on the labs menu and views the HbA1c.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55
Demographics	HbA1c
Notes	
Primary clinic note	
Laboratory Results	
Creatinine, urine	
BMP	
HbA1c	
Urinalysis	
BMP2	

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1b. The user clicks on the side menu and views the latest note

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55
Demographics	Primary clinic note
Notes	
Primary clinic note	
Laboratory Results	
Creatinine, urine	
BMP	
HbA1c	
Urinalysis	
BMP2	

2b. The user clicks on the labs menu and views the creatinine, but the note remains on screen, one can compare note and lab.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55	
Demographics	Primary clinic note	Creatinine, urine
Notes		
Primary clinic note		
Laboratory Results		
Creatinine, urine		
BMP		
HbA1c		
Urinalysis		
BMP2		

3b. The user clicks on the labs menu and views the Basic Metabolic Panel. The other items remain on screen.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55	
Demographics	Primary clinic note	Creatinine, urine
Notes		
Primary clinic note		
Laboratory Results		
Creatinine, urine		
BMP		
HbA1c		
Urinalysis		
BMP2		
	Basic Metabolic Panel	

4b. The user clicks on the labs menu and views the HbA1c. The other items remain on screen.

Menu	Patient, Fake MRN: 222-2222 DOB: 5/5/55	
Demographics	Primary clinic note	Creatinine, urine
Notes		
Primary clinic note		
Laboratory Results		
Creatinine, urine		
BMP		
HbA1c		
Urinalysis		
BMP2		
	Basic Metabolic Panel	
	HbA1c	

