

Supplementary Tables

Table 1.

Comparing room attributes and furniture.

Physical dimensions	Room A	Room B	Room C	Room D
Room Dimensions (LxW)	10' x 12'	10' x 12'	10' x 12'	10' x 12'
Exam table type	convertible	traditional	convertible	convertible
Exam table position	Left wall, perpendicular angle	Corner left, 45 degrees angle	Corner left, 45 degrees angle	Corner left besides the door, 45 degrees angle
Physician/consultation table	Movable, In middle of right wall, perpendicular angle, in front of patient, 90 degrees from caregiver chairs	Stationary, Parallel to right wall besides door, parallel to caregiver chairs	Movable on a small table with wireless keyboard	Stationary, In front of door, 45 degrees from exam chair, 90 degrees from caregiver chairs
Wall monitors	One above the consultation table	None	Three and in front of caregiver chairs, 45 degrees from exam tables	One above the consultation table
Distance between Exam table and monitor	6' – 10 1/8"	10' – 9 1/2"	6' – 3 11/16"	8' – 6 7/8"
Caregiver chairs	In front of door, middle of back wall	Middle of Right wall	Middle of left wall	Corner of right wall
Sink (hand sanitizer, paper dispenser, etc.)	Corner of right wall, parallel and visible to door	Corner of left wall, parallel and behind the door	Corner of front wall, parallel and visible from the door	Corner of left - behind wall, parallel to door
Door	in middle, with storage space behind, in front of family chairs	in middle, sink and cabinet behind	at corner family chairs in front, sink adjacent	corner with chairs in front
Taxonomy	Semi-Inclusive clinician controlled	Exclusive	Inclusive	Semi-Inclusive clinician controlled

Table 2.

Average behavioral durations (aggregated data for talking, gazing, and EHR-interaction) per room type.

		BDS	BSS	TBS
Room Type	A	37.75 (28.79)	11.76 (9.50)	67.56 (49.02)
	B	39.75 (29.98)	11.65 (9.60)	69.56 (53.93)
	C	53.79 (36.43)	15.34 (11.52)	97.17 (73.41)
	D	37.55 (33.38)	10.68 (8.49)	74.32 (69.25)
Total		41.71 (32.58)	12.23 (9.85)	76.34 (61.90)

Table 3.

Average BDS durations of behaviors per examination stage across rooms.

	Room	Talking	Gazing	EHR-Interaction
BDS for MA Intake	A	56.05	43.91	17.94
	B	46.01	41.76	20.87
	C	55.23	29.58	91.13
	D	46.77	29.28	14.01
BDS for MD Infor Gathering	A	29.42	39.65	15.06
	B	35.86	47.48	22.86
	C	45.54	42.86	40.38
	D	34.85	32.20	19.50
BDS for MD Exam	A	56.57	28.54	NA
	B	60.72	43.64	NA
	C	75.22	59.77	NA
	D	53.31	24.34	NA
BDS for MD Diagnosis	A	54.73	45.49	24.00
	B	44.64	41.23	27.01
	C	69.20	55.05	30.69
	D	68.10	55.93	16.33

Table 4.

Average BDS and BSS durations of interaction behaviors (gazing and talking) across rooms.

		BSD	BSS
Room Type	A	43.72 (29.73)	13.98 (9.62)
	B	44.69 (31.61)	13.84 (9.73)
	C	54.11 (32.69)	17.84 (11.29)
	D	44.77 (35.28)	12.76 (8.17)
	Total	46.54 (32.36)	14.48 (9.80)

Table 5.

Descriptive results for actor versus non-actor participants.

	Survey Participants (actor and non-actor users)		Non-Actor Survey Participants	
	Frequency	Percent	Frequency	Percent
Physician	123	34.0	123	49.2
Medical Assistant	89	24.6	85	34.0
Adult Caregiver	54	14.9	0	0
Adult Patient	49	13.5	5	2.0
Pediatric Patient	12	3.3	5	2.0
Pediatric Family Member	35	9.7	32	12.8
Total	362	100.0	250	100.0

Table 6.

One-way ANOVA analysis on satisfaction with exam room features.

Satisfaction Rating	RA Mean (SD)	RB Mean (SD)	RC Mean (SD)	RD Mean (SD)	F
Monitor sharing	4.03 (2.83)	2.66 (2.5)	4.96 (2.47)	4.22 (2.86)	14.19***
Monitor information viewing	4.95 (2.6)	3.54 (2.7)	4.84 (2.44)	4.76 (2.68)	6.58***
Computer monitors	5.72 (1.61)	4.90 (2.13)	4.35 (2.59)	5.86 (1.49)	10.16***
Wall-mounted monitor	4.58 (2.7)	.63 (1.8)	4.81 (2.42)	4.71 (2.73)	76.48***
Exam table	4.83 (2.16)	4.30 (2.1)	5.61 (1.60)	5.65 (1.52)	12.13***
Physician workstation	4.48 (2.36)	4.50 (2.14)	4.31 (2.39)	5.60 (1.83)	6.61***

*** $p < .001$

Table 7.

Significant difference Satisfaction ratings of non-actor survey across rooms.

		A	B	C	D	F
		M (SD)				
MD	Computer Monitor	6.10 (1.03)	5.33 (1.69)	3.81 (2.39)	6.32 (0.77)	12.22**
	Wall-mounted monitor	4.29 (3.04)	0.39 (1.41)	5.03 (2.01)	4.93 (2.56)	24.38**
	Physician workstation	5.29 (2.04)	4.94 (1.87)	4.55 (1.86)	6.07 (1.04)	3.75*
	Curtain	1.48 (2.13)	3.00 (2.87)	1.68 (2.27)	4.07 (2.65)	5.79**
MA	Computer Monitor	5.86 (1.28)	5.28 (2.14)	4.17 (2.46)	5.71 (1.59)	3.22*
	Wall-mounted monitor	3.90 (2.77)	1.06 (2.18)	3.75 (2.57)	3.43 (2.98)	3.4*
	Curtain	2.32 (2.63)	2.39 (2.91)	2.48 (2.86)	5.67 (1.68)	8.207**
	Linen Hamper	1.68 (2.30)	2.22 (2.98)	4.17 (2.84)	3.95 (2.61)	3.94*
	Exam Table	4.23 (2.29)	4.22 (1.99)	5.83 (1.50)	5.43 (1.25)	5.15**
Caregiver	Computer Monitor	5.75 (1.16)	3.43 (2.30)	6.10 (0.88)	6.00 (1.26)	5.65**
	Wall-mounted monitor	5.75 (1.16)	1.00 (2.65)	5.00 (2.79)	5.29 (2.50)	6.14**
	Physician workstation	5.50 (1.07)	3.29 (2.50)	4.56 (2.51)	6.57 (0.79)	3.77*

*p < .05. **p < .01.

Table 8.

Significant survey ratings between real and actor family members.

	Real	Actor	F
	<i>M (SD)</i>	<i>M (SD)</i>	
Computer monitor	5.39 (1.74)	4.21 (2.66)	4.89*
Curtain	2.46 (2.69)	3.63 (2.49)	4.21*
Diagnostic Set	4.70 (2.26)	3.10 (3.03)	6.58*

*p < .05. **p < .01.

Table 9.

Significant ratings of exam room features, within actor and real family participants.

		A	B	C	D	F
		<i>M (SD)</i>	<i>M (SD)</i>	<i>M (SD)</i>	<i>M (SD)</i>	
Real	Computer monitor	5.75 (1.16)	3.43 (2.30)	6.10 (.88)	6.00 (1.26)	5.65**
	Curtain	2.38 (2.77)	1.86 (2.34)	1.70 (2.79)	4.29 (2.50)	1.52
	Diagnostic Set	4.75 (2.19)	5.29 (2.50)	5.00 (1.73)	3.71 (2.87)	0.62
Actor	Computer monitor	4.07 (2.67)	3.93 (2.43)	4.33 (3.33)	4.54 (2.30)	0.137
	Curtain	2.14 (2.54)	4.60 (2.23)	3.27 (2.40)	4.54 (2.15)	3.52*
	Diagnostic Set	3.62 (2.01)	2.60 (3.00)	3.13 (3.23)	3.15 (3.16)	.25

Table 10.

Significant differences between genders across all participants.

	Female	Male	F
	M (SD)	M (SD)	
Computer Monitor	5.34 (1.99)	4.75 (2.32)	6.30*
Chair	4.82 (2.57)	4.20 (2.82)	4.41*
Glove dispenser	4.68 (2.64)	3.87 (2.90)	6.89**
Diagnostic Set	4.25 (2.69)	3.60 (2.91)	4.37*
Soap dispenser	5.06 (2.50)	4.33 (2.82)	6.13*
Sink	5.18 (2.08)	4.69 (2.46)	3.905*