BACKGROUND

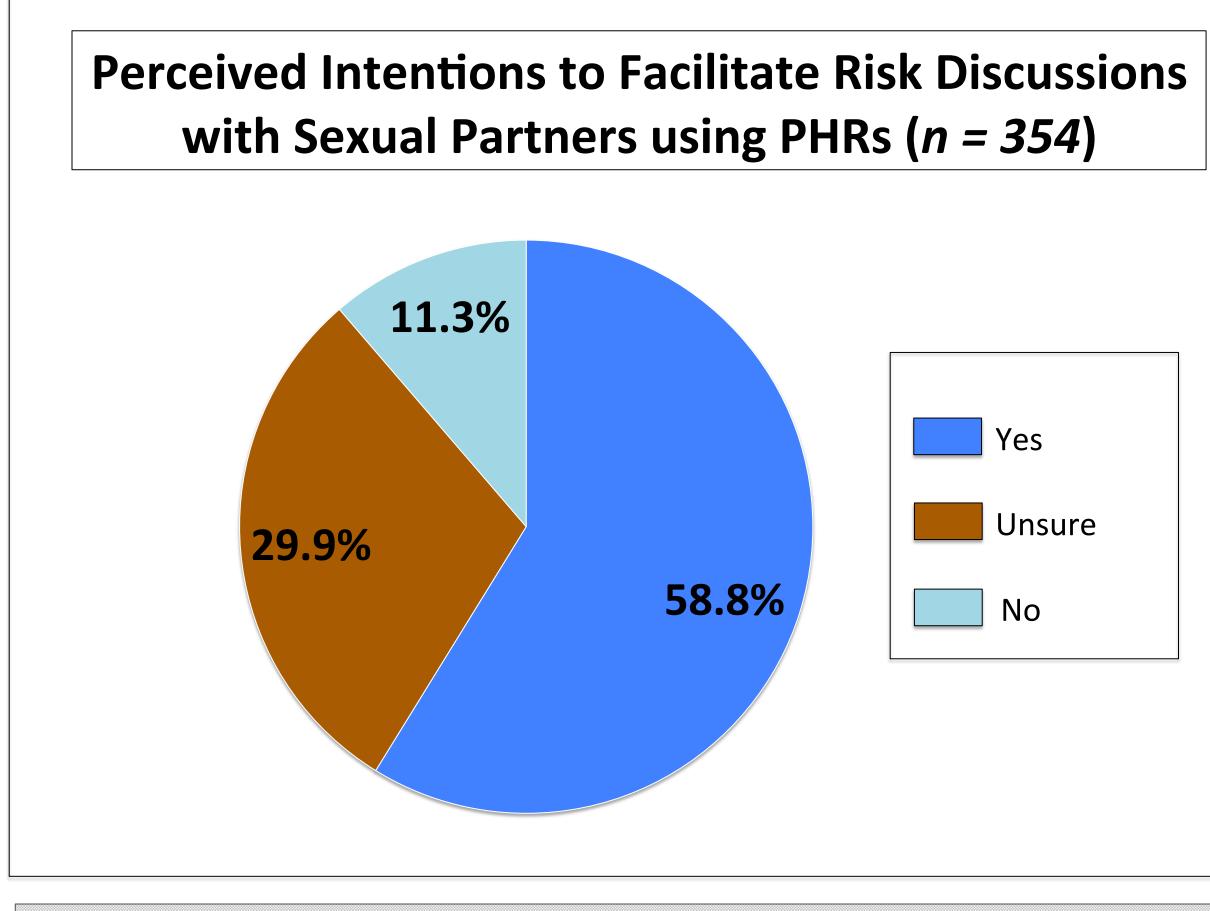
- Young Black adults are at increased risk for sexually transmitted diseases, including HIV, compared to other race/ethnic groups₁
- Effective partner communication about STDs can reduce disease transmission by supporting testing, disease status disclosure, condom use, and the use of medicines to prevent and treat STDs₂
- It is not well know how young Black adults perceive the utility of electronic personal health record (PHR) or patient portal services in prevention conversations on STD screening
- The Electronic Sexual Health Information Notification & Education (eSHINE) Study is a mixed-methods study exploring perceptions of PHRs as digital tools for partner communication among HBCU students with little to no PHR services awareness and access

STUDY OBJECTIVES

- Use a Grounded Theory study approach to explore perceptions of using PHRs during STD risk discussions with sexual partners
- Develop an online instrument to measure qualitative findings in a larger study sample
- Use a Cross-Sectional Study to determine predictors of perceived intentions to use PHRs with partners and the prevalence of perceptions emergent from qualitative themes

METHODS

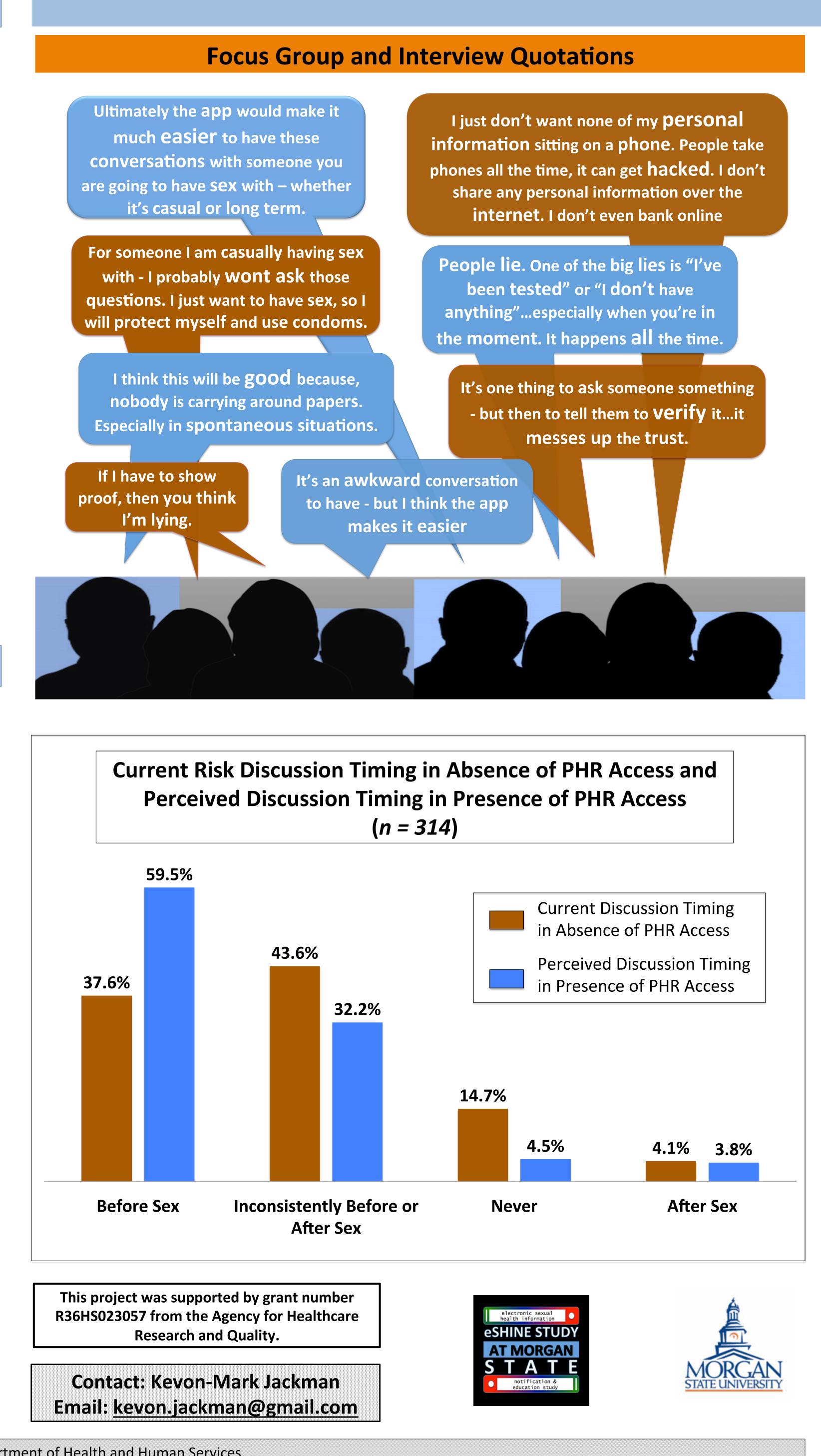
- Exploratory Mixed-Methods Study Design
- Phase 1 Data Collection & Analysis (n = 35)
- 3 Focus Groups ; 18 Individual In-depth Interviews
- Audio recorded and transcribed into ATLAS.ti version 7 for thematic analysis
- Intermediate Phase Instrument Development
- Phase 2 Data Collection & Analysis (*n* = 354)
- Online survey administered with Qualtrics software
- Analyses conducted using STATA Statistical Package v.14

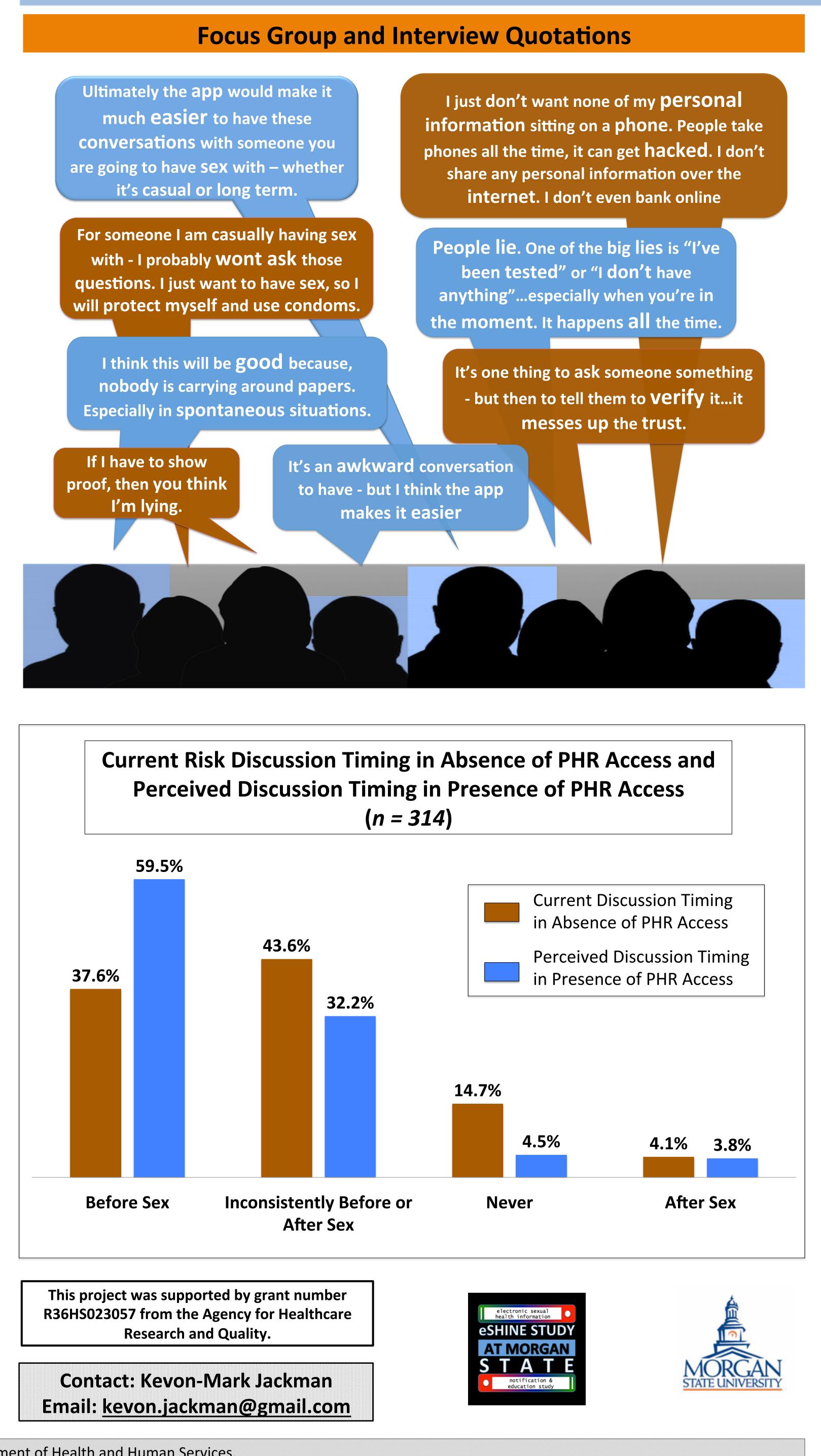


Citations: (1) CDC. (2015). Sexually Transmitted Disease Surveillance 2014. Atlanta: U.S. Department of Health and Human Services. (2) CDC. (2014). "Start Talking. Stop HIV." Campaign. Retrieved from: <u>http://www.cdc.gov/actagainstaids/campaigns/starttalking/index.html</u>

Exploring Electronic Personal Health Record Services as Sexual Health Discussion Tools: A Mixed-Methods Study Among Young Black Adults

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RESULTS

Variables			Unadjusted		Adjusted	
	n	(%)	OR	(95% CI)	OR	(95% CI)
Gender						
Male (ref.)	143	(45.5)	1.00		1.00	
Female	171	(54.5)	0.80	(0.50, 1.26)	0.69	(0.34, 1.39)
Age						
18-19 (ref.)	113	(36.0)	1.00		1.00	
20-21	116	(36.9)	0.91	(0.54, 1.53)	0.78	(0.35, 1.74)
22-23	69	(22.0)	1.22	(0.66, 2.25)	1.06	(0.40, 2.77)
24-25	16	(5.1)	2.21	(0.67, 7.29)	1.16	(0.26, 5.16)
Sex Partners in Past 12 Months						
0-1 (ref.)	132	(42.0)	1.00		1.00	
2-5	79	(25.2)	1.07	(0.61, 1.88)	0.63	(0.26, 1.53)
≥6	103	(32.8)	1.44	(0.85, 2.45)	1.25	(0.57, 2.78)
Last STD Screening						
≤7 months (ref.)	152	(48.7)	1.00		1.00	
>7 months	81	(25.8)	0.64	(0.37, 1.12)	0.37*	(0.16, 0.84)
Never tested	80	(25.5)	0.57*	(0.33, 0.99)	0.75	(0.31, 1.83)
Prior STD diagnosis	59	(18.8)	2.17*	(1.16, 4.06)	2.73*	(1.07, 6.97)
Likely to solicit partner screening history	203	(64.6)	1.68*	(1.05, 2.68)	1.44	(0.70, 2.99)
Intentions to receive electronic STD results	181	(57.6)	15.2**	* (8.75, 26.6)	9.57***	(4.58, 20.0)
PHRs perceived as convenient health management tools	279	(88.8)	10.7**	* (4.04, 28.5)	5.32 **	(1.58, 17.9)
Out-of-pocket costs a PHR adoption barrier	137	(43.6)	0.25**	* (0.15, 0.40)	0.69	(0.31, 1.51)
Device memory space limitations a PHR adoption barrier	134	(42.7)	0.17**	* (0.10, 0.28)	0.39*	(0.18, 0.87)
Privacy breach concerns a PHR adoption barrier	258	(82.2)	1.11	(0.62, 2.01)	0.62	(0.26, 1.51)
PHRs make facilitating risk discussions easier w/ new partners	229	(72.9)	6.38**	* (3.66, 11.1)	2.37*	(1.09, 5.19)
PHRs make facilitating check-in discussions w/ prior partners easier	250	(79.6)	8.49**	* (4.37, 16.5)	3.22**	(1.31, 7.94)
PHRs are moot in trusting relationships	164	(52.2)	2.01**	(1.27, 3.18)	1.66	(0.84, 3.30)

CONCLUSIONS & IMPLICATIONS

Conclusions

- increased likelihood of perceived intentions to use PHRs with partners
- perceived intentions to use PHRs with partners

Implications

- value in reducing racial disparities in STD rates

Cross-Sectional Results

Young Black adults believed PHRs to increase the occurrence of partner discussions on STD screening prior to sex (1) Perceived intentions for electronic STD laboratory results delivery, (2) belief that PHRS are convenient health management tools, (3) reported history of STD diagnosis, (4) belief that PHRs make facilitating discussions with new partners easier and (5) check-in conversations with previous partners easier are significantly associated with

(1) Device memory space limitations and (2) STD screening history greater than 7 months lower the odds of

Privacy breach concerns largely perceived as a barrier, however, there is no significant association with adoption Many participants are unsure about decisions on adopting PHRs to discuss screening with partners

Young people overwhelmingly favor and consider the use of electronic record and health educational services offered by PHRs useful for facilitating discussions on STD prevention with their respective partners

Greater awareness and access to PHR services are needed among Young Black adults to measure its preventative

Future studies are needed to examine the impact of STD PHR utility on risk behaviors