

West Virginia Community Genomics Project

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OVERVIEW

KEY POINTS

- Objective**
 - Evaluate the Surgeon General's My Family Health Portrait tool (MFHPT) and the newly developed Diabetes Risk Assessment Tool for barriers to use in the rural setting, provider satisfaction, and motivation for behavior change.
- Burden**
 - WV Ranked 1st in Diabetes in 2013
 - Prevalence of Diabetes increased by 129% from 1995 – 2007
 - 80,000 WV Adults diagnosed with Pre-Diabetes
- Methodology**
 - Recruitment:** Face-to-face and telephone
 - Non-acute patients, 18 years and older, with no prior diagnosis of diabetes
 - Survey Development & Refinement:**
 - Pre and post surveys for patients
 - Provider surveys
 - Research Assistant Focus Group
 - Patient Outputs**
 - Patient surveys identify high and low risk for diabetes
 - Assessment tool generates patient and provider letter based upon risk assessment outcomes
 - Patients encouraged to share letters with their health care providers for discussion
 - Study Sites:**
 - WVU Family Medicine Clinic
 - Milan Puskar Health Right Clinic



- Data Collection:**
 - 3 Research Assistants collected data prior to the patients appointment with a Microsoft Surface
 - Research Assistants surveyed participants after appointment
 - Participants were at an increased risk for diabetes, specifically older adults and males
 - Most participants felt completing the MFHPT helped them understand their risk for diabetes
- Sharing the diabetes risk assessment resulted in providers giving advice to patients for a health lifestyle to prevent or reduce risk.
- Participants who had discussions with their health care provider were 5.9 times more motivated to change their lifestyle.
- Providers' Responses**
 - Positive reaction to the MFHPT
 - Letters need to be more patient friendly
 - Implement this information into Electronic Medical Records
- Research Assistant Focus Group**
 - Incorporate the MFHPT into Electronic Medical Records
 - MFHPT needs to be incorporated to already established clinic flow
 - Noticed some providers handed letters back to patients



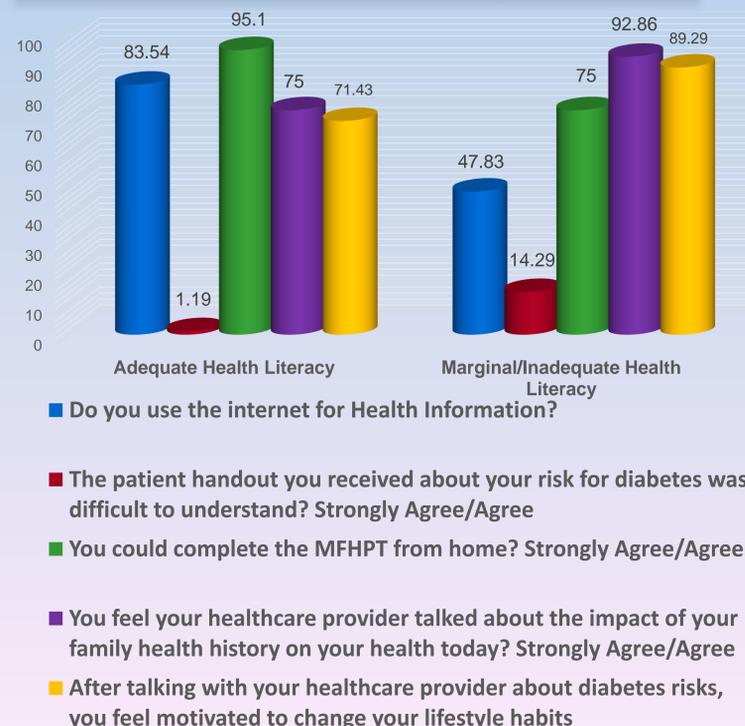
<https://familyhistory.hhs.gov/fhh-web/home.action>

RESULTS

PREDICTORS OF DIABETES RISK

Variable	Comparison	Unadjusted/Univariate			Adjusted/Multiple		
		Odds Ratio	95% C.I.	P	Odds Ratio	95% C.I.	p
Age	≥45 vs. <45	36.98	(11.4, 120.2)	<.0001	54.86	(10.4, 290)	<.0001
Sex	Female vs. Male	0.22	(0.1, 0.6)	0.00	0.18	(0.0, 0.9)	0.03
Race	Non-white vs. White	0.85	(0.2, 3.0)	0.80	1.96	(0.2, 17.7)	0.55
BMI	Overweight/Obese vs. Normal	7.59	(2.5, 22.8)	0.00	18.99	(3.2, 111.8)	0.00
Discussed FHH with provider	Discussed vs. not Discussed	2.25	(0.8, 6.2)	0.12	1.13	(0.2, 5.6)	0.88
Health Literacy	Good vs. Poor/Moderate	0.56	(0.2, 1.4)	0.22	1.99	(0.4, 11.1)	0.43
Knowledge of Diabetes	Poor vs. Moderate	0.58	(0.2, 1.7)	0.28	1.01	(0.2, 6.3)	0.88
	Very/Good vs. Moderate	1.10	(0.5, 2.7)	0.43	1.35	(0.3, 7)	0.73
Use internet for Health Information	Yes vs. No	2.44	(0.9, 6.5)	0.08	0.77	(0.2, 3.5)	0.73
Risk factor Knowledge Score		0.82	(0.6, 1.1)	0.21	0.57	(0.3, 1)	0.06

HEALTH LITERACY



MOTIVATION FOR BEHAVIOR CHANGE

Variable	Comparison	Unadjusted/Univariate			Adjusted/Multiple		
		Odds Ratio	95% C.I.	P	Odds Ratio	95% C.I.	p
Age	≥45 vs. <45	4.29	(1.7, 10.7)	0.00	1.08	(0.2, 4.8)	0.92
Sex	Female vs. Male	0.92	(0.4, 2.3)	0.85	1.51	(0.4, 5.3)	0.52
Overweight/Obese	Overweight/obese vs. Normal	1.28	(0.4, 3.7)	0.65	0.60	(0.2, 2.4)	0.47
Risk of diabetes	Increased vs. Low	4.30	(1.7, 10.8)	0.00	4.47	(0.9, 21.8)	0.06
Discussed FHH with provider	Discussed vs. not Discussed	6.96	(2.6, 19.0)	0.00	5.89	(1.8, 19.5)	0.00
Health Literacy	Good vs. Poor/Moderate	0.30	(0.1, 1.1)	0.07	0.24	(0, 1.6)	0.14
Knowledge of Diabetes	Poor vs. Moderate	0.58	(0.2, 1.9)	0.23	0.77	(0.2, 3.6)	0.43
	Very/Good vs. Moderate	1.38	(0.5, 4.0)	0.28	2.07	(0.5, 8.9)	0.26
Use internet for Health Information	Yes vs. No	3.10	(0.8, 11.4)	0.09	1.80	(0.3, 9.6)	0.49
Risk factor Knowledge Score		1.06	(0.7, 1.5)	0.75	0.97	(0.6, 1.6)	0.89