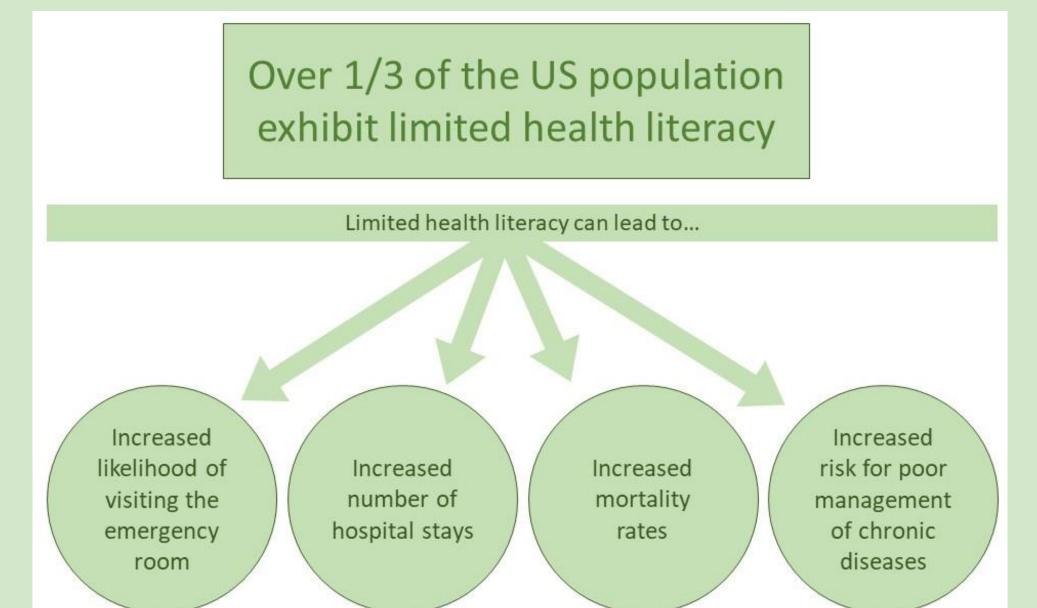


ROWAN-VIRTUA

ROWAN-VIRTUA COMMUNITY **HEALTH CENTER**

Background

- •Health literacy involves the ability to comprehend and apply information from textual, numerical, and document-based sources, such as medication labels and medical forms.¹
- Unfortunately, over one-third of the US population, accounting for 80 million individuals, exhibit limited health literacy, leading to negative health outcomes and lifestyle choices.^{1,2}
- •To evaluate health literacy in primary care settings, healthcare professionals use the validated Newest Vital Sign (NVS) assessment, a short survey that can efficiently screen for limited health literacy.³
- Rowan-Virtua Community Health Center (RCHC) is a student-run clinic situated in Lindenwold, NJ, which aims to offer primary care services free of cost, irrespective of income, insurance, or legal status.
- •By employing the NVS assessment, RCHC sought to compare the health literacy levels of uninsured patients at their facility with those of insured patients at the Rowan Family Medicine (FM) office in Hammonton, NJ. This study aimed to assess specific factors that may influence health literacy levels.



School of Osteopathic Medicine Effects of Income and Language on Health Literacy: A study between a Student-Run Free Clinic & a Family Medicine Office

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AD TO SUBJECT: is information is on the back of a container of a pint of ice cream.	ANSWER CORRECT?						
If you eat the entire container, how many calories will you eat? Answer: 1,000 is the only correct answer		 This is an IRB approved study which surveyed 75 patients enrolled at the RCHC 					
Answer: Any of the following is correct: 1 cup (or any amount up to 1 cup), half the container. Note: If patient answers "two servings," ask "How much ice cream would that be if you were to measure it into a bowl?" 3. Your doctor advises you to reduce the amount of saturated fat in your diet. You usually have 42 g of saturated fat each day, which includes one serving of ice cream. If you stop eating ice cream, how many grams of saturated fat would you be consuming each day? Answer: 33 is the only correct answer			 = 35) and Rowan Family Medicine Office = 40) between February 2021 and arch 2023 ter informed consent and demographic formation was obtained, patients were 				
D TO SUBJECT: tend that you are allergic to the following substances: penicillin, peanuts, ex gloves, and bee stings.		(Figure					
Is it safe for you to eat this ice cream? Answer: No		 Data was recorded via Qualtrics forms, and analysis was conducted with Fisher's Exact Test in IBM SPSS Statistics 					
(Ask only if the patient responds "no" to question 5): Why not? Answer: Because it has peanut oil.							
Number of correct answers:			Nutrition Fa	cts			
Interpretation Score of 0-1 suggests high likelihood (50% or more) of limited literacy. Score of 2-3 indicates the possibility of limited literacy. Score of 4-6 almost always indicates adequate literacy. Figure 1: NVS Assessment*			Servings per of Amount per se Calories Total Fat 130	erving 250 Fat C	4 al 120 <u>%DV</u> 20%		
*if pt answered Q1-4 correct, stop survey due certainty of adequate literacy	to almost		Sat Fat 9g Cholesterol Sodium 55m Total Carboh	28mg g ydrate 30g	40% 12% 2% 12%	Figure 2: Nutrition Label	
*If pt answered Q5 incorrect, do not ask Q6	Resul	ts	2,000 calorie diet be higher or lowe calorie needs.		8% on a	Lanci	
Statistically significant increase in prevale literacy (score ≤3) compared to adequate among patients below the poverty line (e literacy (s	core ≥4)	Sugar, Water, Eg	g Yolks, Brown Sugar, bil, Sugar, Butter, Salt,			
Spanish speaking patients (p=0.041)			score	RCHC	FM	total	
No significant difference between limited	literacy (s	(0re < 3)	0-1	14	11	25	
ond adequate literacy (score ≥4) based o ○ RCHC vs. FM office (p=1)			2-3 4-6	7 14	14 15	21 29	
 Insurance status (p=0.342) Gender (p=0.808) 		Figure 3: Number of patients in each population based on NVP					
\circ Education level (p=0.18)			score				

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Conclusion

ncome below the poverty line and Spanish is a primary language played a significant ole in health literacy in our patient opulation.

Ne determined that a language barrier vas not a factor in our Spanish speaking patients because an interpreter and a panish nutrition label was available. ince limited health literacy is highly prevalent in the US, it is important that hysicians allot more time to explain nedical terms to patients whose primary anguage is not English or who are from a ow socioeconomic status. Additionally, hey should utilize simple infographics and amphlets.¹

imitations: small sample sizes, no current nterventions for limited health literacy Next steps: RCHC hopes to design and mplement a health literacy course for atients.

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