

Empowering High School Students: Health Sciences Librarians Partners in a Health Advocacy Education Project

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School Health Education and Services
Innovative Strategies and Programs in School Health
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Project S.H.A.R.E.

Student Health Advocates Redefining Empowerment

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Information Grant to Reduce Health Disparities

Presenter Disclosure

Anna L Tatro

(1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

“No relationships to disclose”

Project Background

- NLM Information Resource Grant to Reduce Health Disparities
- Funded for 3 years March 2011- 2014
- \$205,000

Baltimore City

- Population 619,493
- Black 63.6%, White 31.5%
- Health disparities exist for every major indicator of health in Baltimore City

2010 Final Grade:

D

http://baltimorehealth.org/info/2010_05_25_HDR-FINAL.pdf
<http://quickfacts.census.gov/qfd/states/24/24510.html>

2010 Baltimore City Health Disparities Report Card

Summary and Conclusion

Health Disparities Summary Table

Mortality and Infant Health							
Total Indicators	A	B	C	D	F	Final GPA	Final Grade
All-cause	6	0	0	2	2	1.00	D
Heart	6	0	3	0	1	1.67	D
All-cancer	6	0	2	2	1	1.83	D
Lung Cancer	6	3	0	1	0	2.33	C
Colon Cancer	6	1	4	0	1	2.83	C
Breast Cancer	3	1	0	0	0	4.00	A
Prostate Cancer	3	0	1	0	1	1.33	D
Stroke	6	3	2	1	0	3.33	B
Diabetes	6	1	0	2	2	1.67	D
HIV/AIDS	6	0	0	0	6	0.00	F
Homicide	6	1	0	0	0	0.67	F
Infant Mortality	3	0	0	1	2	1.33	D
LowBirthweight	3	0	0	0	2	1.00	F
Total	66	12	12	9	12	21	
Baltimore/Maryland	13	2	2	1	5	2	1.62 D
Black/White	9	2	2	2	1	2.11	C
Men/Women	9	1	1	1	5	1.11	D
Black Men/White Men	10	2	3	0	2	3.90	D
Black Women/White Women	12	5	3	2	0	2.75	C
HS or Less/BA+	13	1	1	1	3	0.92	F

Health Status							
Total Indicators	A	B	C	D	F	Final GPA	Final Grade
Fair/Poor Health	4	2	0	0	0	2.00	C
Diabetes	4	0	0	2	1	0.75	F
Hypertension	4	1	0	1	2	1.00	D
Household Asthma	4	1	0	1	2	2.00	C
Child Asthma	3	1	1	0	0	2.00	C
Smoking	4	1	0	1	0	1.50	D
Total	27	6	2	2	5	12	
Baltimore/Maryland	27	6	2	2	5	12	
Black/White	7	2	1	1	1	2.00	C
Men/Women	7	4	1	1	0	3.00	B
<BA/BA+	6	0	0	0	2	0.33	F
<\$15,000/\$25,000+	6	0	0	0	2	0.33	F

Healthcare								
Total Indicators	A	B	C	D	F	Final GPA	Final Grade	
Uninsurance	4	1	1	0	1	1	2.00	C
Unmet Healthcare Needs	4	1	1	0	1	1	2.00	C
Unmet Mental Healthcare Needs	4	2	0	0	1	2	2.25	C
Total	12	3	1	2	3	3		
Baltimore/Maryland	12	3	1	2	3	3		
Black/White	3	0	1	0	2	0	1.67	D
Men/Women	3	2	0	1	0	0	3.33	B
<BA/BA+	3	0	0	1	1	1	1.00	D
<\$15,000/\$25,000+	3	1	0	0	0	2	1.33	D

Healthy Homes and Communities								
Total Indicators	A	B	C	D	F	Final GPA	Final Grade	
Exposure to Violence	4	2	0	0	0	2	2.00	C
Neighborhood is Very Dangerous	4	0	0	1	0	3	0.50	F
Seen Mice/Rats	4	3	1	0	0	0	3.75	B
Seen Roaches	4	1	0	1	0	2	1.50	D
Food Insecurity	4	1	0	0	1	2	1.25	D
Energy Insecurity	4	2	0	1	0	1	2.50	C
Total	24	9	1	3	1	10		
Baltimore/Maryland	24	9	1	3	1	10		
Black/White	6	3	0	1	1	1	2.33	C
Men/Women	6	4	0	1	0	1	3.00	B
<BA/BA+	6	1	0	1	0	4	1.00	D
<\$15,000/\$25,000+	6	1	1	0	0	4	1.17	D

Vivien T. Thomas Medical Arts Academy School Profile (2011)

- Missed >20 days of school per year: 53.56%
- Receiving Free and Reduced Price Meals: 83.11%
- Teachers with <5 years of teaching experience: 77.78%
- 12th grade SAT Average : 957 (out of 2400)
- School Safety Issues:
 - 76% of staff report that students fighting at school is an issue.
 - 52% report that physical/verbal abuse of teachers is also a problem.

Health Sciences and Human Services Library Profile

- Urban campus
- Serve medicine, nursing, dentistry, pharmacy, & social work
- 5,450 students, mostly graduate students
- Headquarters for the Southeastern/Atlantic Regional Medical Library

- History of successful community partnerships to improve health by providing quality health information.

- HS/HSL goal to expand role:
 - Health advocacy
 - Health literacy
 - Community Outreach

Partners and Team

- Vivien T. Thomas Medical Arts Academy (VTTMAA)
 - School Administrators, Teachers, Nurse, Community Engagement Liaison, and Students
- Health Sciences and Human Services Library (HS/HSL)
 - Project team – Principal Investigator, Project manager, Outreach Services Consultant, Intern, IT
- Advisory Committee
 - University of Maryland Baltimore Outreach Council
 - Baltimore City Community College
 - VTTMAA
 - Parents
 - Project Team
- University of Maryland and Community Experts

3 Aims of the Program

- **Aim 1: Empower high school students as community health advocates.**
- **Aim 2: Promote improved health and reduce health disparities in Baltimore neighborhoods.**
- **Aim 3: Develop a replicable student health advocacy program.**

The Program

- 154 hour, after school program
- Curriculum/learning objectives linked to national standards
 - National Health Education Standards
 - Healthy People 2020
 - National Partnership for Action to End Health Disparities
 - Common Core State Standards
- Pre and post test to determine curriculum effectiveness.

Student Recruitment

- Lengthy application
- Grades
- Teacher Recommendation
- Essay “What is a Healthy Community”
- Interview
- Work Permit
- Paperwork to become University of Maryland Employee

Curriculum Topics

- Determinants of Health
- Medical History
 - Personal Health Record
 - Family Medical History
- Interview Skills
- Evaluating Health Information
- Health Disparities
- Health Literacy
- Presentation Skills
- Health Advocacy
- Policy
- Campaigns
- Outreach
- Poster Design
- Navigating the Health Care System
- Food
- Outreach and Campaigns

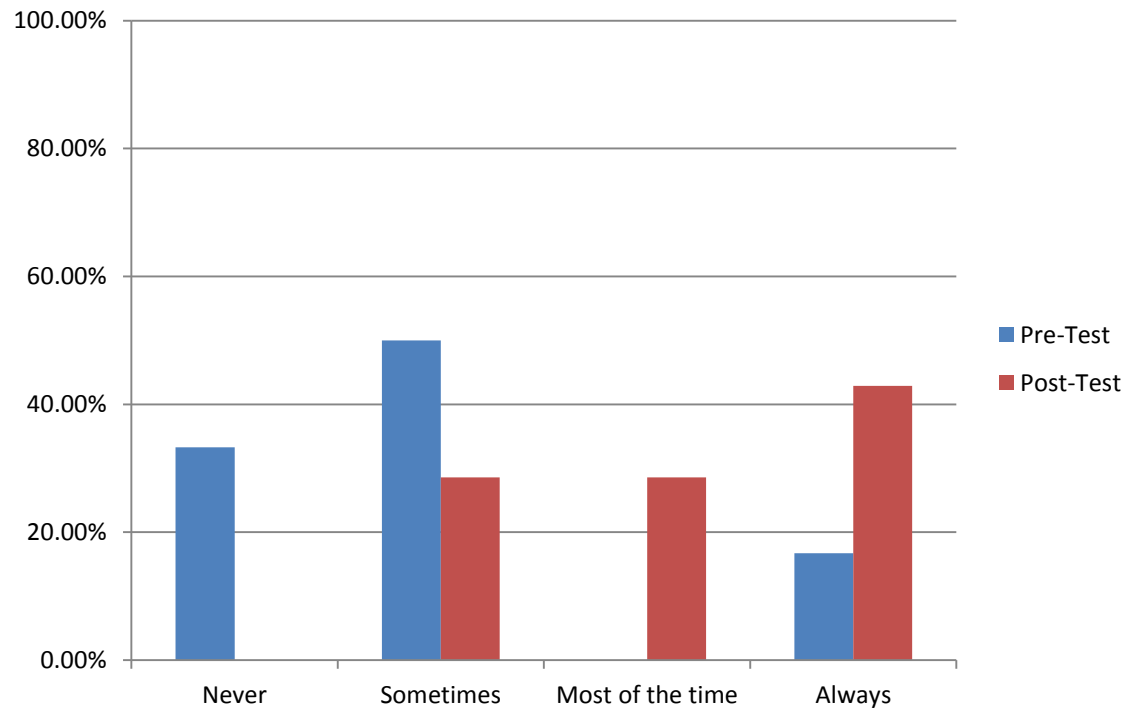
Student Driven Output

- PowerPoint presentation on disease topic
- Poster presentation on advocacy topic
- Outreach to identified target group
- Digital portfolio of best works

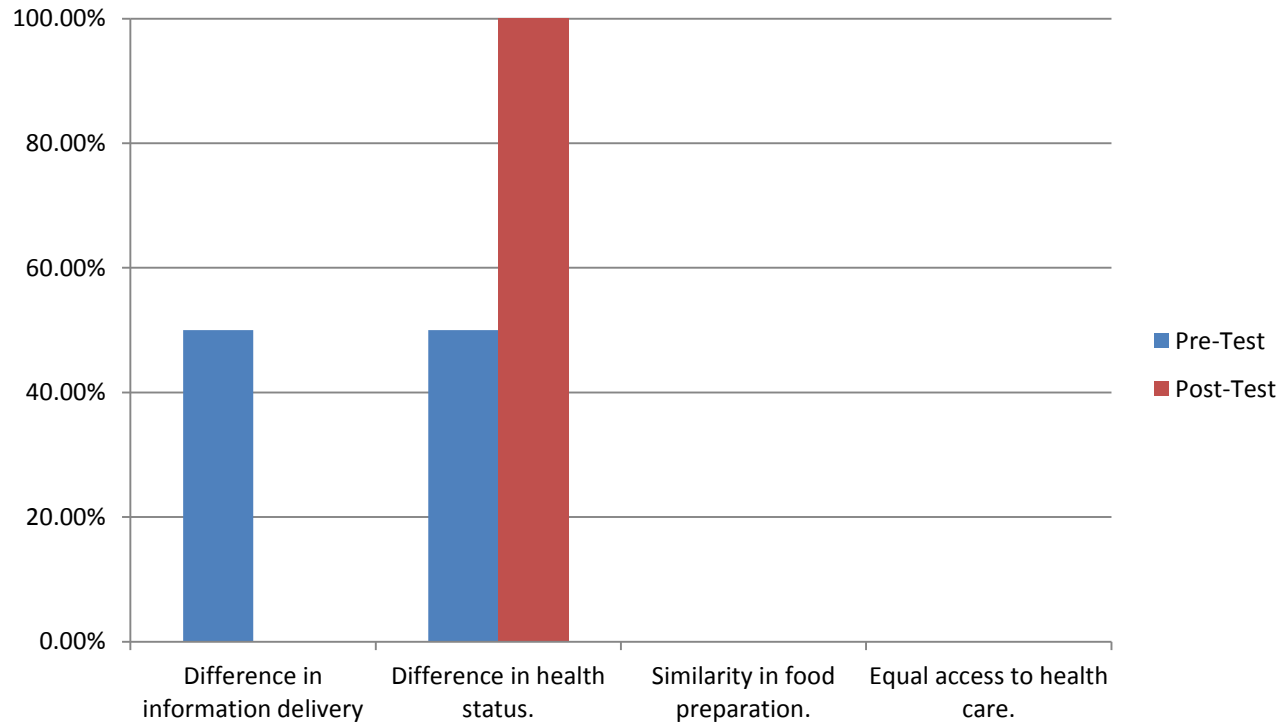
Pre-Post Test

- Showed significant improvement in almost all categories
- Strengthened curriculum lessons as a result of questions that showed minimal improvement
- Reworked the Pre-Post Test so that it measures the efficacy of the curriculum more precisely

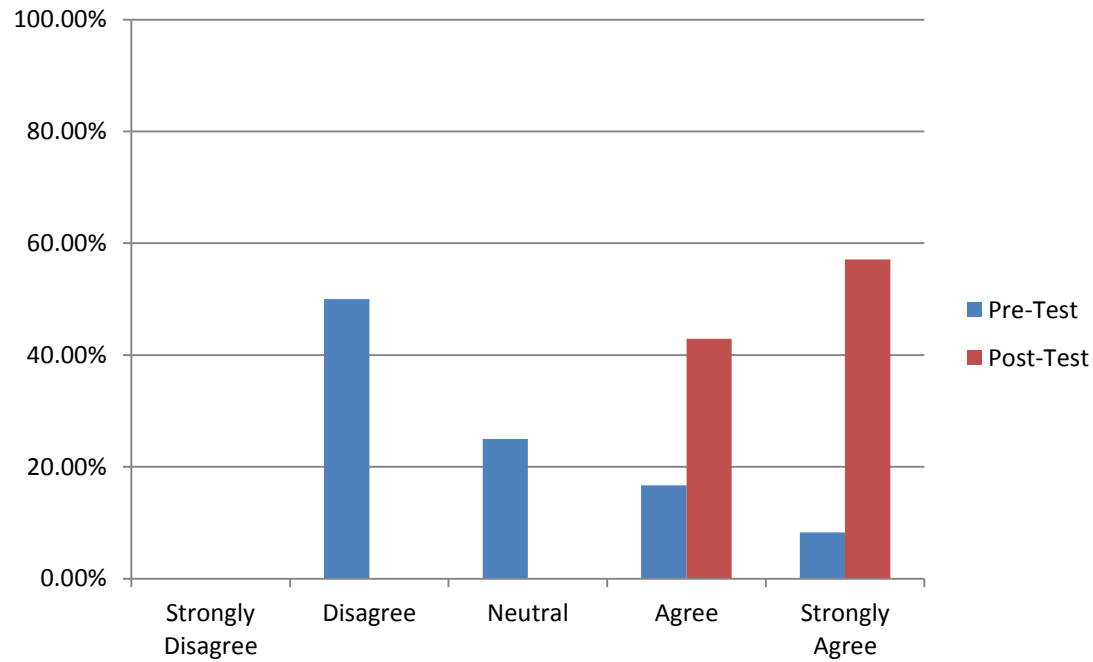
How often do you check the publication date when you are looking at health information online?



What is health disparity?



I have been taught the skills to create a community health campaign.



Future of S.H.A.R.E.

- Website/Toolkit development
- Seeking additional funding
- Continued relationships campus and community partners
- Modifications to curriculum as needed

Follow our progress...

- <http://guides.hshsl.umaryland.edu/SHARE>
- Feedback? Ideas? Questions?
 - mjtooley@hshsl.umaryland.edu – M.J. Tooley, Principal Investigator
 - atatro@hshsl.umaryland.edu – Anna Tatro, Project Manager



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