Department of Education
Youth Engagement Grant

FY 2018 Annual Report
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Youth Programming Functions

Demographic and Labor and Industry data define the long-term need for talented health care professionals in the Lehigh Valley as well as across the nation. Additionally, we know from needs assessments with internal and community stakeholders that there is need for research assistance and community health.

To meet these needs, LVHN’s Department of Education (DoE) has established several highly successful programs:

1. The Research Scholar Program
2. Emerging Health Professionals Program (EHP), Lehigh Career & Technical Institute
3. Emerging Health Professionals Program (EHP), Schuylkill Technology Center
4. Academy for Medical Sciences, Bethlehem Area Vocational Technical School (BAVTS)
5. Health Care Career Discovery Program

Management of LVHN’s Youth Programming is administered by a DoE Education Consultant who actively refines, designs, develops and implements high quality standards aligned and academically rigorous student experiences.

Student experiences are made possible by LVHN colleagues and mentors, each providing students with unique opportunities to gain exposure to the many possibilities in the health care professions. These experiences are also aimed at equipping students with the experiences necessary to make well-informed decisions regarding future schooling and careers. LVHN colleagues, mentors and community partners serve as the key that opens the door for LVHN student learners; educating and empowering students to be the change they want to see in the future healthcare workforce.
Youth Programming Metrics

The Research Scholar Program

This eight-week, summer based program provides structured educational research opportunities for undergraduate students, while also providing valuable assistance to LVHN’s departments.

Research or quality improvement projects, submitted by LVHN departments, allow students to make the link between their academic preparation and the world of employment. Each position involves a combination of research, professional, and/or clinical observations.

Additional goals of this programming is to develop and strengthen the pipeline of future health care workers and orient future health care workers to LVHN’s mission, goals, and leadership.

The program culminates with a poster presentation event where the mentors/scholars showcase their research or quality improvement project to LVHN faculty/staff as well as the community.

The 2018 impact evidence included:

- 40 Research Scholars
- 24 Colleges/Universities represented
- 41 Mentors and 20 plus LVHN Departments represented
- 100% of the mentors reported finding value in the program increasing the likelihood of the scholar becoming a future LVHN employee or medical student
- 100% of mentors found value in the program being able to produce a significant finding, process or protocol that otherwise may not have been conducted
- 100% of scholars said it provided valuable career information and planning
- 96% of scholars said it created a positive mentor/student relationship
The Emerging Health Professionals Program-Lehigh Valley

Offered by the partnership of LVHN, Lehigh Career & Technical Institute, Penn State Lehigh Valley and Lehigh Carbon Community College this dual-enrollment program combines college-level science courses, honors health curricula, and observation in a health care setting.

The program is designed for high school seniors interested in any area of health care and allows them to explore careers while also preparing them for post-secondary education.

The 2017/2018 school year impact evidence included:

- 58 graduates
- 100% enrolled in post-secondary education
- $1500 in HOSA (Health Occupations Students of America) scholarship
- PA Association for Career and Technical Education (ACTE) “Program of the Year” award

The Emerging Health Career Professionals Program-Schuylkill

Offered by a partnership of LVH-S, Schuylkill Technology Center, Penn State Schuylkill, this dual-enrollment program combines skills-based, interactive, and university level classroom learning with observation in a health care setting.

The 2017/2018 school year impact evidence included:

- 8 graduates
- 100% accepted into post-secondary
- $8000 in HOSA (Health Occupations Students of America) scholarships
Academy for Medical Sciences Program

Offered by a partnership of LVH-M and BAVTS, the curriculum is designed to provide students with the necessary information and skills to be considered safe in a clinical environment. The clinical component offers various health care experiences for a multifocal overview of professional health careers.

The program is designed for high school seniors interested in any area of health care and allows them to explore careers while also preparing them for post-secondary education.

The 2017/2018 school year impact evidence included:

- 41 graduates
- 98% enrolled in post-secondary education
- Students won $6000 in Bridges Foundation scholarships

Hazleton Area Career Center Health Career Program

Offered as a partnership between Hazleton Area Career Center and LVH-H, Health Careers provides an introduction of the basic concepts of health care through two days of classroom instruction at the center and one day of clinical observations at the hospital.

The 2017/2018 school year impact evidence included:

- 22 graduates
- 15 students are enrolled in post-secondary, 2 military and 5 undecided
Health Care Career Discovery

This program exposes students to a wide variety of health care careers and positive adult role models in authentic, real-world settings. Students gain a better understanding of the aptitude, skills, educational attainment, and work experience necessary to be a part of a 21st century health care team.

Health Care Career Discovery was designed and implemented for Building 21, William Allen High School, Dieruff High School, Raub Middle School, Lincoln Leadership Academy, St. Thomas More School and the 9th-12th grade children of LVHN employees across campuses. Programming was also expanded this year to include Freedom and Liberty High Schools of the Bethlehem Area School District.

The 2017/2018 school year impact evidence included:

- 407 students experienced Health Care Career Discovery programing
- 49 Health Care Career Discovery experiences planned between September-May 2018
- 41 LVHN Departments and other community partners participated
Youth Programming Highlights

2017/2018 Year End Building 21 Report

LVHN’s DoE partnered with Building 21 of the Allentown School District to create a model program, titled Health Care Career Discovery. This curriculum exposes students to a wide variety of health care careers and positive adult role models in authentic, real-world settings.

Curriculum Alignment

- **9th grade** (Exposure): explore various health care career options
- **10th grade** (Connection): connect to Keystone exams: Biology anchored classroom learning
- **11th grade** (Experience): connect to classroom Chemistry and activities that deepen knowledge, skills and create pathways for higher education/job opportunities

Metrics

- 71 9th grade students experienced Exposure this year
- 48 10th grade students experienced Connection this year
- 17 11th grade students participated in the Experience this year
- 35 plus LVHN mentors working with the students of Building 21 during the school year

Next year, 12th grade students will have the opportunity to work in Authenticity which are continued experiences, internships, and pathways for higher education, job opportunities, and apprenticeships.

9th, 10th and 11th grade students participated in career based educational tours at:

LVHNs’ Surgery Education Center, Sterile Processing, Radiology, Medevac, Endocrinology, Rehabilitation Services, Health Network Labs, Cetronia Ambulance Corps, B. Braun, Miller-Kesmont Blood Center, Northampton Community College, Kutztown University, the Emergency Medicine Institute, Lehigh Carbon Community College, Moravian College, Penn State- Lehigh Valley, Cedar Crest College, and Central Admixture Pharmacy Services and participated in a Sports Medicine Career Day at One City Center.
Health Care Career Discovery Day for LVHN’s Staff’s Children

On Thursday, April 26, 2018, LVHN’s DoE hosted a six-campus Health Care Career Discovery Day for 9th-12th grade children of LVHN staff in conjunction with the “National Take Our Daughters and Sons to Work Day.”

LVH-CC, LVH-M, LVH-17th Street, LVH-S, LVH-H, and LVH-P each provided a scheduled 8:00am-3:00pm day of educational presentations and tours of a variety of departments across the Network. Depending upon the location, the children had the opportunity to learn about health care careers in: Emergency Medicine, Pharmacy, Surgery, Cancer Services, Radiology, Food and Nutrition, Sterile Processing, Medevac/Ambulance Services and more.

81 children participated across 6 campuses, with 33 departments participating and more than 50 presenters and careers represented.
Emerging Health Professionals and Academy for Medical Science Students
Volunteering in the Community

Beginning January 2018, seven students from LVHN’s Academy for Medical Sciences and Emerging Health Professionals program were selected to be a part of the Leukemia and Lymphoma Society’s (LLS) Students of the Year Program.

Students of the Year is a seven-week leadership development and philanthropy program in which high school students participate in a fundraising competition to benefit LLS and the community in which it serves.

Through guidance and mentoring from professionals at LLS along with planned experiences, including one to LVHN’s Oncology Department, our seven students were able to raise $34,911.50 for blood cancer research and education.

Overall, the Student Series with twenty-two students representing the greater Lehigh Valley, worked together to raise $238,991.00. This money helps patients and their families fight against cancer improve quality of life while undergoing treatment.

Academy for Medical Science students
Jacob Kanyuk, Shaye Kerper, Gabrielle Soares, and Eleni Prodes
Instructor: Stan Prodes

Emerging Health Professionals
Madison Hoffman, Benjamin Fry and Alya Wezza
Instructors: Veronica Deblois and Kristin Applegate
Youth Programming Opioid Use Disorder Simulation

On Friday, May 18 2018, LVHN’s Youth Programming and The Dorothy Rider Pool Health Care Trust piloted an Opioid Use Disorder (OUD) simulation for 42 students from the Emerging Health Professionals program of Lehigh Career & Technical Institute.

The simulation begins with students viewing a pre-recorded video created by LVHN. The video features the experience of a standardized patient, “Sarah”, who is found unresponsive by her family. In the video, “Sarah’s” family finds her and calls 911 to initiate the emergency response.

The program transitions to a live simulation in the Department of Education Interprofessional Simulation Center, where the students observe the “warm hand-off” to the Emergency Medicine team.

The simulation ends by showing students an inpatient discussion between Paige Roth, LVHN Addictions Recovery Specialist, and “Sarah” as they discuss treatment options. Students then debriefed and reflected upon the empathic attitudes and hopeful communication they observed between members of the health care team, “Sarah”, and her family. Students also had an opportunity to hear the story of a person in recovery from the Center for Humanistic Change’s HOPE Program.

**Pre/Post Survey Results**

After completing the simulation, more students:

• Understood the role that biases might play in the health care treatment of OUD patients.
• Could identify additional health care roles involved in providing medical care for a patient with OUD.
• Were more hopeful that a patient with OUD could enter into long-term recovery.
• Agreed that shared learning with other future health care workers will help them to become a better team worker, communicate better with patients and other professionals, and help them to understand their own limitations.
Financial Statement

**Annual Budget**

$146,962.20

**Actual Expenses**

$114,341.32 through 6/30/2018

**Under Budget**

$32,620.88

**In-Kind Community Contributions**

$24,313.79
Accomplishments

1. “How Youth Education Programs Impact Nursing” was published in Issue 73 (1) of the Pennsylvania Nurse online journal. Link to article: https://joom.ag/yoGY. This article was coauthored by Kerri J. Green, MS, MEd and Emilie Bree Carlino, BHS and discussed the results of FY 17’s Youth Programming Database quality improvement project. The results of the project created a reporting system and visual pathway demonstrating the correlation between student programming participation and retention within the LVHN healthcare workforce. One example to illustrate retention data to nursing is as of 7/2/2018, the database has complete data on 361 Emerging Health Professionals students. Of that number, there were 64 connections to employment at LVHN and 28% were hired as nurses.

2. The Opioid Use Disorder Youth Programming Simulation pilot was well received by the participants, LVHN and the greater community. The DoE was invited to submit for funding from Lehigh County Drug and Alcohol to coordinate and deliver 10 days of programming to preprofessional health care student groups in the Lehigh Valley during FY 18. In addition, Youth Programming is now a part of the Community Outreach work group of the LVHN Opioid Stewardship and Linkage to Treatment Committee.

3. Lehigh Valley Health Network’s (LVHN) piloted The Experience which was a summer work-based program for students between their junior and senior year of high school. The new program was offered in partnership with Building 21 Allentown (B21) and was funded by The Dorothy Rider Pool Health Care Trust. 16 participants were placed in 12 LVHN Departments and worked with 28 mentors. Additionally, Paige Bernecker under mentorship of Maggie Hadinger, EdD, created a poster on the program which is highlighted below.