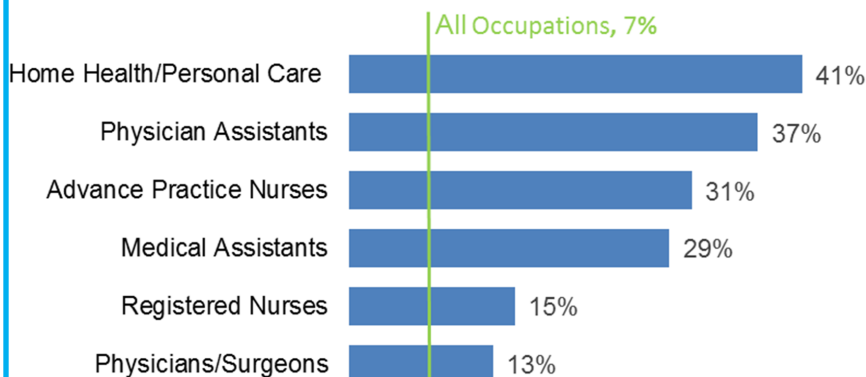




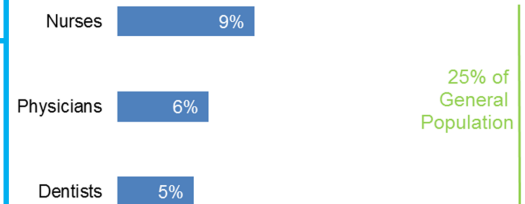
Building the Health Care Professions Pipeline: A Qualitative Review of a Summer Work Experience for High School Youth

Background

2016 to 2026
U.S. Growth in Health Care Positions will be Staggering



2004 Underrepresentation of
African Americans, Hispanics, and American Indians



Summer Work Experience Program

- Community partnership
- 16 high school, rising seniors
- Competitive application
- 12 LVHN departments
- 20 PD speakers
- 30 LVHN mentors
- 6 weeks at 30 hours/week
- \$6,000/participant
- New in 2018

Professional Development

- Communication
- Work styles
- Social media etiquette
- Workplace culture
- Emotional intelligence
- Customer service
- Interview readiness
- LVHN Tuition programs

Departments

- Emergency Services
- Sterile Processing
- Education
- Translation Services
- Information Services
- Radiology
- Ob/Gyn
- Psychiatry
- NICU
- OR

Program Evaluation

Focus Groups

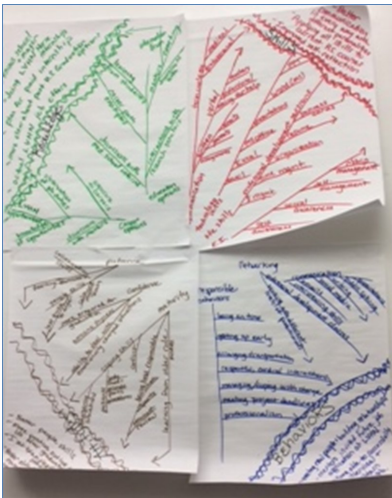
Inquired about

- Prevailing thoughts and feelings
- Most interesting or important things, and
- New work-related skills

Open coding themes

- Organization of program,
- Restrictions on students
- Eye-opening experiences

Ripple Effect Mapping



- Peer to Peer Interviews
- Group Reflection
- Mapping

Group reflection of interviews generated key ideas about a highlight/success/achievement, a change, and new connections forged.

Emergent themes included

- | | |
|-----------------------|-------------------|
| • Responsibility | • Communication |
| • Career Choices | • Specific Skills |
| • Educational Options | • Networking |

Thematic Analysis

- Set aside preliminary themes to look for meaning behind participants' actual words
- Included focus group and REM transcripts
- Following Creswell (2007), varied between inductive and deductive processes
- Following Lofland, Snow, Anderson, & Lofland, (2006), found relationships, meanings, and activities themes
- Topic themes were coded into patterns using focused coding
- Four key findings emerged

Final Themes

- 1) Personal/Professional Development
- 2) Communication/Relationships
- 3) Engaging Experiences
- 4) Skills Acquisition

Nine-Month Follow-up Survey

- Better prepared for next steps
- More confident
- More aware of health care career requirements
- More aware of health care career opportunities

Participant Outcomes

- Internships with LVHN and industry partners
- 14 of 15 who completed were accepted at college/university
- 1 went on to military
- 4 began immediate LVHN employment
- Ongoing mentor/student bonds
- Mentors rediscovered a love of their jobs

Program and Measurement Improvements

- Goals of program were updated
- Considered unanticipated consequences
- Added daily participant self-evaluation and mentor checklists and clarified projects
- Revised surveys to reflect updated goals
- Aligned pre/post surveys for improved measurement
- Surveys include demographics and student feedback regarding mentors

Selected References

- Chazdon, S., Emery, M., Hansen, D., Higgins, L., & Sero, R. (2017). *A field guide to ripple effects mapping*. University of Minnesota Libraries Publishing.
- Creswell, J.W. (2007). *Qualitative inquiry & research design: Choosing among five approaches*. (2nd ed.). Sage Publications.
- Fernandez-Repollet, E., Locatis, C., De Jesus-Monge, W. E., Maisiak, R., & Liu, W. L. (2018). Effects of summer internship and follow-up distance mentoring programs on middle and high school student perceptions and interest in health careers. *BMC Medical Education*, 18(1), 1-6. doi:10.1186/s12909-018-1205-3
- Haywood, S., Berkman, R., Sinkford, J., Sullivan, L., Susman, J., & Gershen, J. (2015). Diversity in the academic health center: Progress and opportunities. In S. Wartman (Ed.), *The transformation of academic health centers: Meeting the challenges of health care's changing landscape* (69-79). Elsevier.
- Jones, S.C. (2014). *Impact and excellence: Data-driven strategies for aligning mission, culture, and performance in nonprofit and government organizations*. Jossey-Bass.
- Kruger, R.A., & Casey, M.A. (2009). *Focus groups: A practical guide for applied research* (4th ed.). Sage Publications.
- Lofland, J., Snow, D., Anderson, L., & Lofland, L. H. (2006). *Analyzing social settings: A guide to qualitative observation and analysis*. Cengage.
- National Center for Health Workforce Analysis. (2017). *Sex, race, and ethnic diversity of U.S. health occupations (2011-2015)*. <https://bhw.hrsa.gov/sites/default/files/bhw/nchwa/diversityushealthoccupations.pdf>
- Snaveley, T. M. (2016). A brief economic analysis of the looming nursing shortage in the United States. *Nursing Economics*, 34(2), 98-100.
- Sullivan Commission. (2004). *Missing persons: Minorities in the health professions*. <https://www.wkkf.org/news-and-media/article/2007/01/sullivan-commission-report>
- Thessin, R.A., Scully-Russ, E., & Lieberman, D.S. (2017). Critical success factors in a high school health care education program. *Journal of Career and Technical Education*, 32(1), 52-70.

L E H I G H V A L L E Y H E A L T H N E T W O R K

Questions?

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