

HSC Innovative Teaching/Learning Experience Description
Hearing and Vision Screening at All Three Levels of PHN Practice

12/6/19

Question	Answer
Time/Topic	Hearing and Vision Screening at All Three Levels of PHN Practice Metropolitan State University NURS 459 Population-Based Care
Activity	<p><u>Preparation – Students:</u></p> <ul style="list-style-type: none"> • Review best practice guidelines from Minnesota Department of Health (MDH) Hearing and Vision Screening Quick Reference Guide. • Minnesota Department of Health. Vision Screening Procedures • Minnesota Department of Health. Hearing Screening E-Learning Course. • View Population-Based Hearing and Vision – A Population-Based Approach (VoiceThread, 1 hr. 22 min.) • Other educational media as appropriate • Online Quiz <p><u>Lab – Students participate in:</u></p> <ul style="list-style-type: none"> • H & V Demonstration – Return Demonstration using: <ul style="list-style-type: none"> ○ Metropolitan State University, Hearing and Vision Check-out Rubric (Appendix A) ○ MDH, Hearing and Vision Screening Quick Reference Guide ○ LEA and HOVT Wall Charts ○ Color Vision Booklet ○ Pure Tone Audiometry up to 6000 Hz • H & V Planning and Evaluation Review <ul style="list-style-type: none"> ○ Hearing and Vision Screening Planning Template (Appendix B) ○ Hearing and Vision Summary and Audit Process and Form (Appendix C) <p><u>Experiential Learning Activity – Students:</u></p> <ul style="list-style-type: none"> • Sign-up Online in groups of 5 – 7 Students for specific school and date. • H&V Student Lead: Volunteer for position, receives job description and 3 bonus points for course grading. (Appendix D) • H&V Student Lead collaborates with school nurse in development of hearing and vision mass screening for elementary and middle school students using planning template developed by nursing faculty. (Appendix B) • H&V Student Lead communicates with nursing student team to provide information about time, place, responsibilities • H&V Student Lead and Team carry out hearing and vision screening under direct supervision of school nurse who stays in office and distance supervision of course instructor. <ul style="list-style-type: none"> ○ Fall semester: Grades 1st, 3rd and 5th (vision only) ○ Spring Semester: Kindergarten, 2nd (optional), and 7th (vision only) • Levels of PHN Practice <ul style="list-style-type: none"> ○ Conduct Mass Screening – Community Level of Practice ○ Referral to School Nurse for Rescreen – Individual Level of Practice ○ Collaborate with school nurse – Systems Level of Practice

	<ul style="list-style-type: none"> ○ Conduct H&V Summary and Audit to evaluate effectiveness and efficiency of screening process. ○ H&V Student Lead appraises H&V Summary and Audit with school nurse, and posts completed H&V Summary and Audit forms on D2L for faculty review and feedback.
Collaboration	<p>ISD # 197 (West St. Paul, Mendota Heights, Eagan)</p> <ul style="list-style-type: none"> ● Health Coordinator for school district ● Individual School Nurses at 5 elementary schools, 2 middle schools, and 2 private schools
Outcomes	<p>Objectives:</p> <ul style="list-style-type: none"> ● Describe evidence-based practice hearing and vision screening principles and components ● Collaborate with school nurse in planning and conducting hearing and vision screening. ● Conduct holistic hearing and vision screening at elementary and middle schools that is developmentally and culturally appropriate ● Evaluate the effectiveness and efficiency of hearing and vision screening process.
HSC Competencies	1, 2, 6, 7, 8, 9, 12
PH Wheel Interventions	Outreach, Screening, Case-Finding, Referral & Follow-up, Health Teaching, Consultation, Collaboration
Evaluation	<p><i>Process and Outcomes:</i></p> <ul style="list-style-type: none"> ● Education: Continuous process of quality improvement in teaching hearing and vision based on best practices ● Collaboration with community partner: Ongoing provision of hearing and vision screening during fall and spring semesters since 2016 ● Conduct hearing and vision screening for approximately 6 schools and 400 students each semester. <p><i>Challenges:</i></p> <ul style="list-style-type: none"> ● School nurses collaborating with teachers to arrange hearing and vision schedule with enough lead time for course instructor to provide online sign-up options for students. ● Providing hearing and vision screening to all schools requesting assistance ● Securing appropriate equipment and space for screening ● Achieving rescreen rate of 15% or less ● Meeting requests from other school districts ● Spiraling experiential learning activities so that students move from role as volunteers and service-learning hearing and vision screening experience in first semester of nursing curriculum to role as nursing professionals taking the lead in providing population-based care in senior year. <p><i>Recommendations:</i></p> <ul style="list-style-type: none"> ● Use MDH best practice guidelines that are updated periodically to prepare students. MDH requires that nursing programs use these guidelines. ● Only place students in school settings where school nurse already uses or agrees to update to best practice process and equipment.

	<ul style="list-style-type: none"> • Prepare students for professional role in hearing and vision screening as opposed to volunteer role. • Require students to complete preparation in cognitive and psychomotor domains of learning before carrying out hearing and vision screening in school setting. • Add health promotion health teaching component to screening process.
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Metropolitan State University Teaching Learning Resources

Miles, K. (2018). Hearing and Vision Check-out Rubric

Schoon, P. M. (2018). Population-Based Hearing and Vision Screening with Related Interventions VoiceThread presentation. Retrieved from <https://voicethread.com/share/12022025/>

Schoon, P. M. (2017) Vision and Hearing Planning Template

Schoon, P. M. (2018). Hearing and Vision Student Lead Job Description

Schoon, P. M. (2019). Hearing and Vision Summary and Audit Form

Online Resources

Minnesota Department of Health, Child and Teen Checkup. (2018). Hearing and Vision Screening Quick Reference Guide. Retrieved from

<https://www.health.state.mn.us/docs/people/childreneyouth/ctc/visionscreen/QuickRefGuideHVScreening.pdf>

Minnesota Department of Health. (2018). Equipment for Visual Acuity Screening. Retrieved from Schoon, P. M. (2018). Retrieved from

<https://www.health.state.mn.us/docs/people/childreneyouth/ctc/visionscreen/recomvsnrts.pdf>

Minnesota Department of Health. (2017). Distance Visual Acuity Screening - LEA SYMBOLS or HOTV wall charts. Retrieved from

<https://www.health.state.mn.us/docs/people/childreneyouth/ctc/visionscreen/visacuitylthotvcharts.pdf>

Minnesota Department of Health. Hearing Screening E-Learning Course. Retrieved from <https://www.health.state.mn.us/people/childreneyouth/ctc/webcourse/hear/index.html>

Minnesota Department of Health. Vision Screening Procedures. Retrieved from

<https://www.health.state.mn.us/people/childreneyouth/ctc/visionscreen/procedures.html#Example1>