Supplemental Digital Content, Figure. Logic Model for Population Health Simulation Innovation using NLN Jeffries Simulation Framework

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| Population Health Student Outcomes | Participants | Simulation Design | Educational Activities | Student Outcome Measures |
| Provide culturally competent care to address social determinants/health disparities.  Advance behavioral changes in self-management of chronic illnesses.  Facilitate transitions in care.  Promote a culture of health, prevent disease, and utilize community resources.  Contribute to meaningful use data to recognize care gaps.  Utilize electronic health record (EHR) for quality, safety, and evidence-based best practices. | *Project Team*   * Director * Co-director * Clinical partner * Faculty experts * Research assistants * External consultant   *Courses*   * Adult Health I & II * Pediatrics * Community (both cases)   *Student participants*   * Generic * Second degree   *Faculty facilitators*   * Didactic * Clinical * Simulation team   *Campuses*   * North * Central * South   *Semesters*   * Fall 2016 * Spring 2017 | *Unfolding adult and pediatric cases:*   * Faculty/student guide (5) * Videotaped simulated patient encounter (VSE) (5) * High fidelity simulation (HFS) (5)   *Fidelity*   * De-identified patient charts * Educational EHR * Population health resources (eg, videos, county/state data) * Scripts/cues for roles   *Support*   * Faculty/student orientation: in person, video, activities checklist * Ongoing communication   *Debriefing*   * Structured questions | *Didactic VSE*   * Student guide pre-assignment (1-2 hrs), including:   + VSE (7-15 mins)   + Activities (eg, care plan)   + Resources * Faculty guide, including:   + VSE discussion & debriefing (1.25-1.5 hrs)   *HFS*   * Student guide pre-assignment (1-2 hrs), including:   + Activities (eg, online modules)   + Resources * Faculty guide, including:   + Pre-briefing (1 hr)   + Simulation (2 hrs)   + Debriefing (1 hr) | *Population health outcomes*a   * Post VSE discussion/HFS evaluation surveys (10 mins)   *Cultural competence*b   * Inventory for Assessing the Process of Cultural Competence Among Healthcare Professions-Student Version (IAPCC-SV©): Pretest/posttest (10 mins)   aCompleted by students/faculty  bCompleted by students |