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Using the IHI 4Ms Framework within an affordable housing clinical experience: Lessons in Health Equity and Age-Friendly Geriatric Care

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Purpose

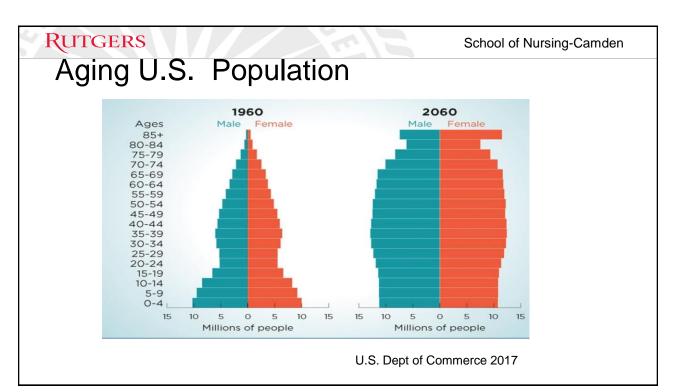
Describe how implementation of the IHI 4Ms Framework can be used as a curricular strategy surrounding geriatrics and health equity.

Project aims:

Integrate IHI AGE-Friendly 4Ms Framework into an existing baccalaureate nursing community clinical experience to:

- Enable healthcare access for underserved older adults
- · Improved preparation of the emerging healthcare workforce

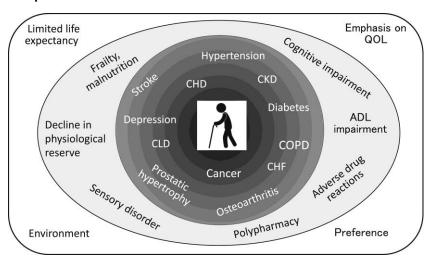
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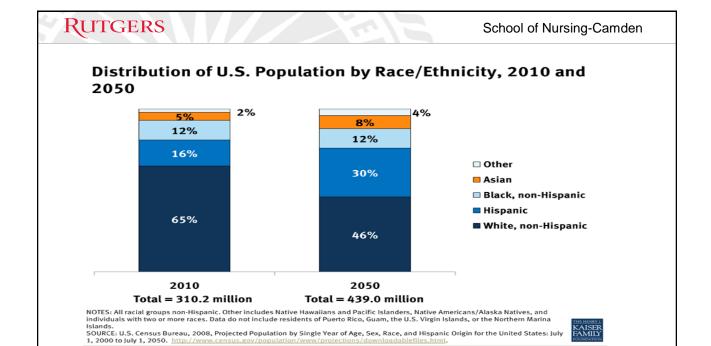
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Increased prevalence of chronic conditions in older adults

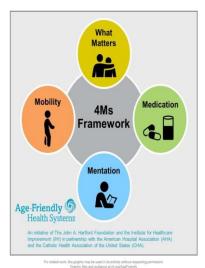


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Re-designed clinical experience using the 4Ms Framework



What Matters

Know and align care with each older adult's specific health outcome goals and care preferences including, but not limited to, end-of-life care, and across settings of care.

Medication

If medication is necessary, use Age-Friendly medication that does not interfere with What Matters to the older adult, Mobility, or Mentation across settings of care.

Mentation

Prevent, identify, treat, and manage dementia, depression, and delirium across settings of care.

Mobility

Ensure that older adults move safely every day in order to maintain function and do What Matters.

- What matters: Assess and plan care considering individual resident goals
- Medications: Assess medication usage in the home; Implement interventions to reduce ADE
- Mentation: Screen for dementia and depression using the Minicog and PHQ-2
- **Mobility:** STEADI toolkit to screen, assess risk for falls and plan interventions.

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Clinical experience objectives

Assessment: Assess healthcare needs of vulnerable residents using a screening tool.

Mentation: Screen for dementia and depression using evidence-based tools (MiniCog, PHQ-2) and refer appropriately.

Mobility: Assess mobility and implement evidence-based strategies to prevent fall-related injuries.

Medications: Screen residents and recommend changes to reduce med-related adverse drug events (ADEs) using evidence-based resources.

IP teamwork: Use a interprofessional team based approach to address unmet client needs in an underserved population.

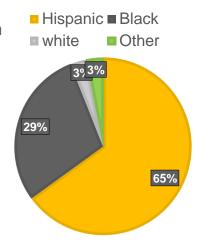
Health Promotion: Identify and implement evidence-based strategies for health promotion and behavior change for vulnerable residents based on **What Matters**

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Setting: Subsidized housing highrise, Camden, NJ

- Camden NJ 2012 "most impoverished city in U.S."
- · Housing Development residents
 - Majority of residents disabled and below the poverty line
 - 65% of residents over the age of 65
 - 95% underserved persons of color
 - 64% mobility-related disabilities.
 - 51% ED utilization vs 20% national

US Census, Fairshare Support Services data



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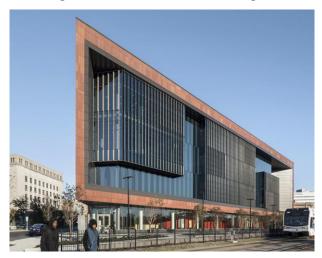
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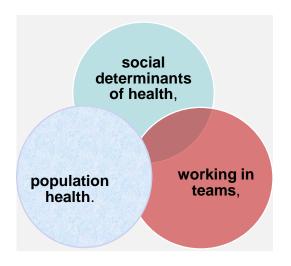
NJ- Geriatric Workforce Enhancement Program (GWEP)

- 5 year grant
- DHHS/HRSA supported
- Grant Goal: "Develop a healthcare workforce that integrates geriatrics into primary care and maximizes patient/family engagement".

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Orientation Topics: Hybrid delivery

- 4Ms Framework overview
- Resident Health Risk assessment form
- · What matters
 - Person-centered goal planning
 - Working with an interpreter
 - Advanced care planning

- · Medication in the older adult
- Mentation
 - Dementia, depression, delirium review
 - MiniCog- video, practice, demonstration
- Mobility-
 - CDC STEADI module, functional assessments

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Clinical Structure

Community Health Nursing and Global Health clinical:

Senior BSN students.

Paired with social workers

Resident appointments prioritized for older residents with:

- Recent hospital discharge
- two or more chronic illnesses
- potential safety or fall concerns
- cognitive concerns



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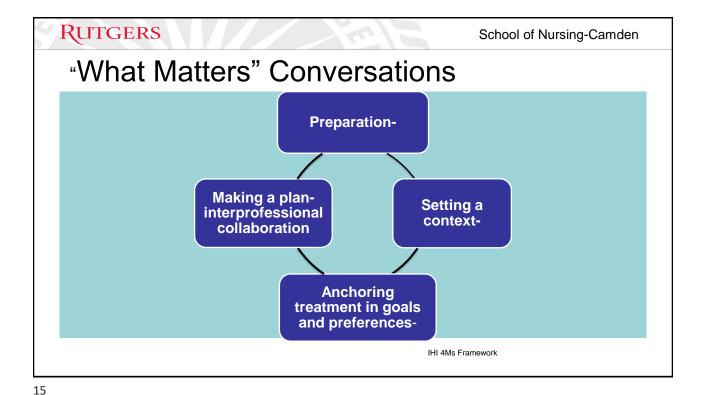
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Resident Health Risk Assessment

- · Structured based on the 4Ms
- Both social work and healthcare/nursing information
 - Demographics
 - Health history and health risk factors
 - Medications and administration
 - Drug/alcohol usage
 - Hospitalizations

- Cognitive assessment/mood
- Fall risk/Assistive devices
- ADLs/ IADLs
- Social determinants
 - Loneliness
 - Food insecurity
 - Violence
 - financial



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Medications: Assessment

- Duplication/polypharmacy
- Knowledge deficit
- Administration issues
- Organization issue
- Nonadherence
- High risk medications



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Medication interventions

Consultation with PharmD faculty

- Review medications based on Beers Criteria
- Re-organization/pillbox
- · Med "clean up"
- Med schedule change
- Lifestyle modification or disease management education





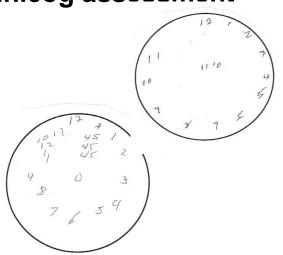
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Dementia Screening: Minicog assessment

- Minicog assessment
- · Takes about 2 min.
- Evaluate student proficiency first
- Residents who screen positive referred to Memory Assessment program



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Mobility: CDC STEADI Fall risk Algorithm

- Screening questions
 - Are you worried about falling?
 - Have you fallen in the last year?
 - Do you feel unsteady when standing or walking?
 - CDC STEADI algorithm

- Assessments if yes to screening
 - Orthostatic BP
 - High risk meds
 - Assistive devices
 - Environmental review
 - Timed up and GO (TUG)
 - Comorbid conditions?

CDC STEADI

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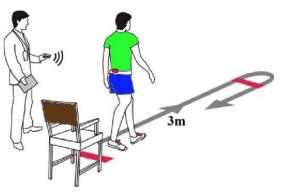
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Mobility

- If resident at risk for falls based on the STEADI Algorithm, students performed
 - "Timed up and Go" (TUG) assessment.
 - Abnormal >12 sec.

Timed up and Go

Timed Up and Go (TUG)



CDC STEADI

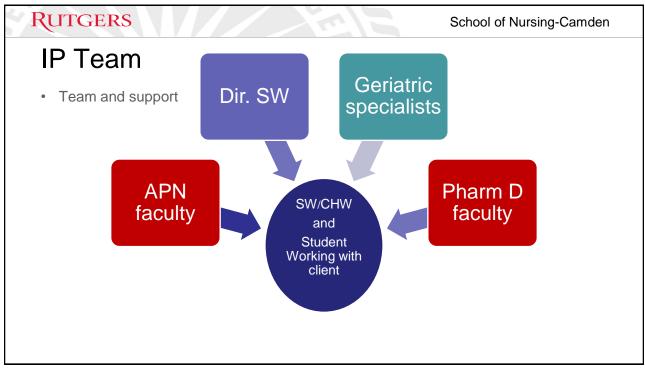
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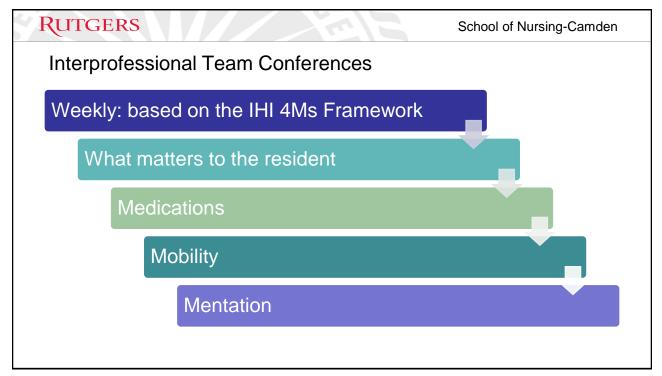
Mobility: Interventions- STEADI

- Consider physical therapy
- Optimize medications (be mindful of meds that increase fall risk
- · Home safety assessment
- Refer to ophthalmologist
- · Address footwear
- Consult PCP- management of comorbidities including BP



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Evaluation methods

From **Sept 2019** through **May 2021**, **25** nursing students participated in the redesigned 4Ms interprofessional clinical experience

During COVID, online learning modules (4Ms and geriatric best practice) were provided to all senior graduating students (n=204)

Residents were screened for issues related to **mentation**, **mobility**, **medication**, **and** "what matters".

Students delivered weekly case presentations to faculty, social service staff and geriatric specialists.

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Program Results

- 1. Students demonstrated **competence** conducting geriatric assessments and counseling (direct observation)
- **2. Positive change in knowledge** (M=1.8-2.4) reported in four content areas related to the 4Ms (retrospective pretest-posttest survey).
- 3. Students rated **achievement of learning objectives** (M=4.4-4.8) (1-5 scale)
- 4. Open ended student comments indicated the value of the experience Social determinants of health Barriers older individuals face when managing chronic health problems

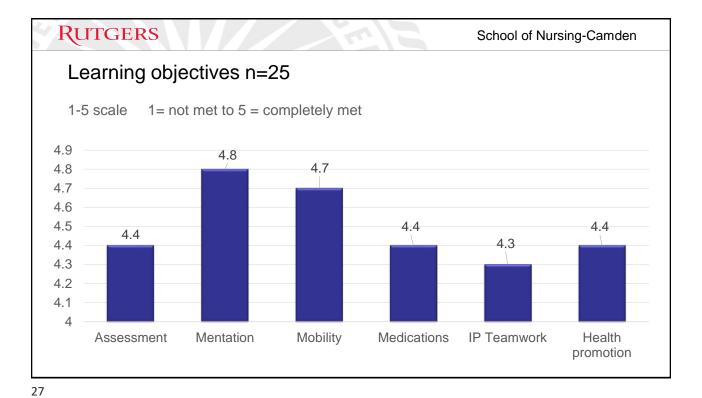
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Retrospective Pre-post Change in Knowledge n=25

		mean	
pre	1-novice 2-advanced beginner 3 competent 4 proficient 5 expert	post	diff
2	What matters: Identify the importance of asking "What matters" when planning person-based care in older adults	4.4	2.4
2.2	Explain the relationship between social determinants of health, health risk factors, and patient outcomes.	4.6	2.4
2.3	Describe opportunities for advocacy and collaboration with community and clinical partners that can be used to address unmet patient needs.	4.1	1.8
2	Explain the link between culture and its influence on individuals, communities, and provision of culturally appropriate health care .	4.1	2.1
2.8	Identify the importance of the interprofessional team-based approach when making healthcare decisions	4.2	1.4



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Nursing Student reflections on experience

What matters

"Recommending to remove a rug to prevent falls isn't that simple when it is someone's home and a cherished possession".

Social determinants of health

"Seeing first-hand the impact of social determinants on health made it real for me".

"I will do a better job at discharge planning, knowing the barriers that some face".

Interprofessional learning

"I learned a lot from my social worker, and I think she learned from me".

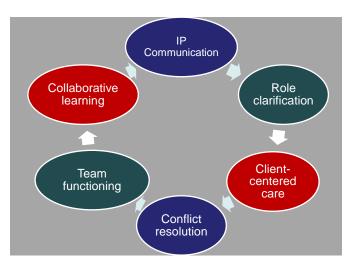
"I learned what they do and how they advocate for residents in the community".

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Building the Interprofessional Team

"Interprofessional
Education occurs when
two or more professions
learn with, from and about
each other to improve
collaboration and the
quality of care".

(Centre for the Advancement of Interprofessional Education (CAIPE, 2002)



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Summary The 4Ms Framework is an effective strategy to teach geriatric-based competencies to undergraduates. Curricular rapid cycle quality improvement project Requires strong academic community-based partnership

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