Hazards of Hospitalization in **Older Adults**

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Objectives

- · Describe hospitalization-associated disability and why older adults are at risk
- Review existing models of safe and efficient hospital
- Provide clinical pearls for prevention of hospitalizationassociated disability that can be used in daily practice

Patient story

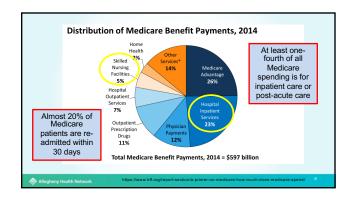
- Penny is an 82 year old woman, presented with abdominal pain over site of known ventral hernia
- PMH: Aortic stenosis s/p TAVR, pulmonary hypertension, atrial fibrillation on warfarin, osteoarthritis
- · Baseline functional status: Lives alone, ambulates with walker, independent; retired RN
- CT scan concerning for incarcerated hernia admitted for observation
- On day 2 of admission: abdominal pain and exam worsened, went to OR for laparoscopic hernia repair



What you are being asked Inpatient vs observation status When is the patient ready for transition to lower level of care? Barriers to discharge? Where will patient go from the hospital? Rehab needs, home safety?

UNDER

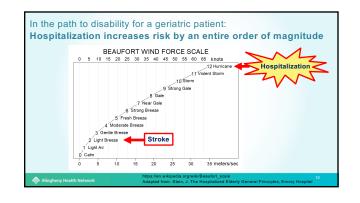
PRESSURE



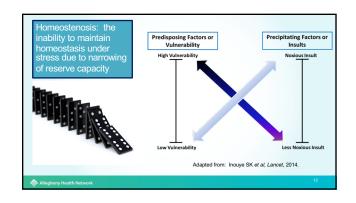
Why geriatric patients are important to hospitalists • 35% of patients in the hospital are age 65+ • Patients age 65+ have highest average length of stay • Majority of H&Ps, progress notes, complexity (disproportionate care time) Why hospitalizations are important to geriatric patients • Higher mortality • Higher risk of becoming disabled Disability = functional decline = loss of independence

Hospitalization, Restricted Activity, and the Development of Disability Among Older Persons • Prospective cohort study of ~750 patients age 70+ over 5 years • Independent in all ADLs at baseline • Main outcome: disability of at least one ADL (dressing, hygiene, walking, eating, toileting) • Results: Hospitalization (for any reason) in the month prior conferred 60 times greater risk of developing disability than stroke, CHF, cancer

What's the prognosis? Recovery in Activities of Daily Living Among Older Adults Following Hospitalization for Acute Medical Illness Cynthia M. Boyd, MD, MPH¹, C. Seth Landefeld, MD², Steven R. Counsell, MD³, Robert M. Palmer, MD, MPH², Richard H. Fortinsky, PhD⁵, Denise Kresevic, RN, PhD⁶, Christopher Burant, MA, PhD², and Kenneth Covinsky, MD, MPH² • Observational study of ~800 patients who had decline in at least one ADL over course of hospitalization • Results: By 12 months, 41% of patients died, 29% remained disabled at 1 year, and only 30% returned to prior level of functioning • Presence or absence of ADL recovery at 1 month was associated with long term outcomes



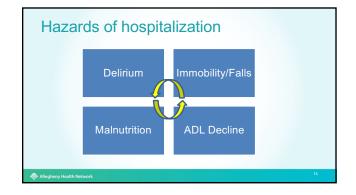
How does this happen? Reduced homeostatic reserve Multiple chronic diseases (multimorbidity), acute insults Under-recognition of geriatric syndromes Immobility Environment not conducive to healing Silos of care

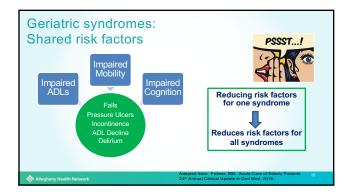


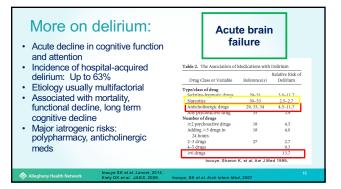
Back to our patient: the Domino Effect

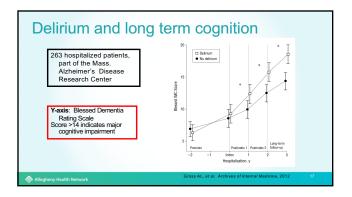
- POD #5: Rapid response called for syncope while transferring from chair to bed, hypotension, abdominal pain
- Hemoglobin drop to 6.3 g/dL
- Abdominal wall hematoma diagnosed
- Transfused, hgb back to near baseline
- POD #7: hypoactive delirium recognized
- Multiple medical consultants on board (volume status, electrolyte mgmt.)
- Following days unable to get out of bed, poor appetite, pressure ulcer, persistent delirium

Allegheny Health Network

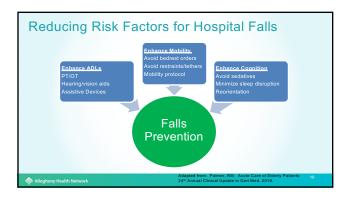






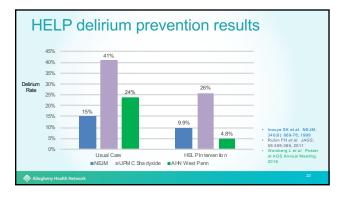


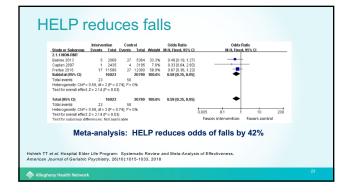


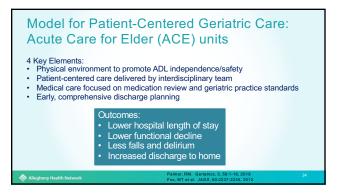








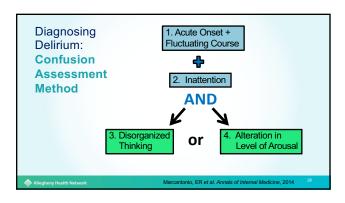


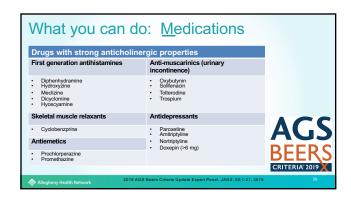


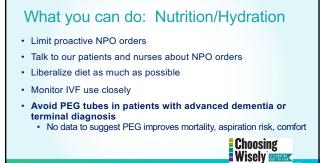


What you can do: Mobility Assess baseline mobility Avoid bed rest orders OOB to chair for meals, empower independent patients to walk Daily review of tethers – continuous IV fluids, telemetry monitor Limit number and duration of indwelling catheter use Specific medical indications: retention, stage 3-4 sacral ulcers, I/O measurement critical, comfort for end-of-life Team up with nurses, patient, families, PT/OT – avoid enforced dependence (encourage patient/family for independent ADLs)





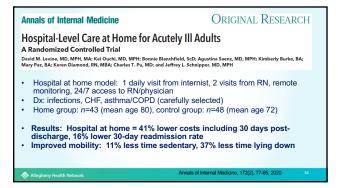




What you can do: Find out What Matters • Sit at the bedside • Patients whose physicians sit at bedside are perceived as listening more carefully and explaining things in a way that is easier to understand • Assess perceived knowledge of current medical situation • Ask for invitation to deliver information (with/without family present) • Words to use: "When you think about what lies ahead, what worries you the most?" "When you think about the future, what do you hope for?" • Avoid: "Would you like us to do everything possible?" or "There is nothing more we can offer" • Strategize with patient. "Based on your prognosis and goals, I recommend..."

What you can do: Transitions of care Anticipate caregiver support, rehabilitation needs on admission Meet daily with case manager and social worker Keep family involved for discharge plans For patients transitioning to SNF or inpatient rehab: Set realistic expectations Medication reconciliation Concise discharge summary Prescriptions for controlled substances Reach out to accepting provider for complex cases





Back to our patient Spent total 6 weeks inpatient Long course of fluctuating delirium, organ dysfunction, impaired mobility Goals of care discussed – prognosis, appropriate level of care Discharged to skilled nursing facility ...4 months later, regained functional status, returned home!

Summary Mobility: Assess baseline functional status, keep patients out of bed Mentation: Assess delirium with CAM daily Medications: Avoid "never use" anticholinergic medications What Matters: Determine goals – for most, it's autonomy, self-care, being with family

