



Delirium Prevention protocol implementation in the Acute Care of the Elderly (ACE) Unit Phase 1 of 3



Educating for Quality Improvement & Patient Safety



FINANCIAL DISCLOSURE

S. Liliana Oakes, MD has no relevant financial relationships with commercial interests to disclose.



The Team

- ▶ Inter-professional ACE team
 - CS&E Participant: Dr. Oakes
 - CS&E Alumni consultants: Dr. Suh, Dr. Patel
 - Dr. Efeovbokhan, clinical nurse manager
 - Team Member: Imelda Rohner RN, Nurse manager
 - Team Member: Michelle Dang, MS2, MSTAR student
 - Health Career student: Swetha Gogu
 - Restorative aid : Juanita Rodriguez
 - Facilitator: Hope Nora, PhD
 - Blair Sarbacker Pharm D
 - Get input from some patients and caregivers

- ▶ Sponsor Department/ Institution
CSR City Centre, FCM Department, AFAR grant(MSTAR program)

AIM

Increase utilization of the **cognition** and **mobility** components of the delirium prevention protocol to 90% in the next 3 months at the Acute Care of the Elderly(ACE) unit at Christus Santa Rosa City Centre (this protocol is actually 6 parts).



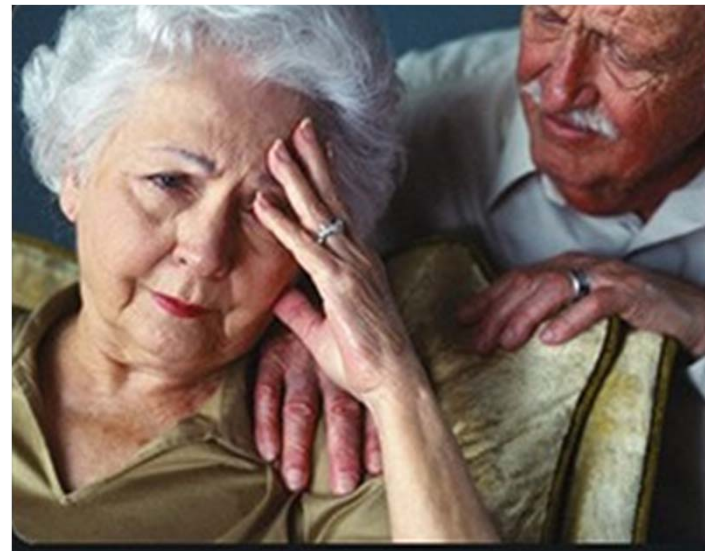
Project Milestones

- ▶ Team Created April 2011
- ▶ AIM statement created May-June 2011
- ▶ Weekly Team Meetings Every Wednesday
pm
- ▶ Background Data, Brainstorm Sessions May 20
- ▶ Workflow and Fishbone Analyses
- ▶ Interventions Implemented July - Date
- ▶ Data Analysis August - Date

- ▶ CS&E Presentation September 16

What is Delirium?

- ▶ Delirium is an acute change in mental status
- ▶ It is a temporary and reversible state of severe confusion
- ▶ It lasts hours to days
- ▶ Three types:
 - ▶ Hyperactive
 - ▶ Hypoactive
 - ▶ Mixed
- ▶ Different than dementia
 - because of:
 - ▶ Fluctuating nature of delirium
 - ▶ Inattention



Who is at Risk for Developing Delirium?

- ▶ Hospitalized elders > 65 years old
- ▶ Individuals with pre-existing diseases
 - ▶ Dementia
 - ▶ Parkinson's disease
- ▶ Individuals with multiple diseases
- ▶ Taking multiple medications
- ▶ If you are:
 - ▶ Sleep deprived
 - ▶ Malnourished
- ▶ If you have:
 - ▶ Vision problems
 - ▶ Hearing problems

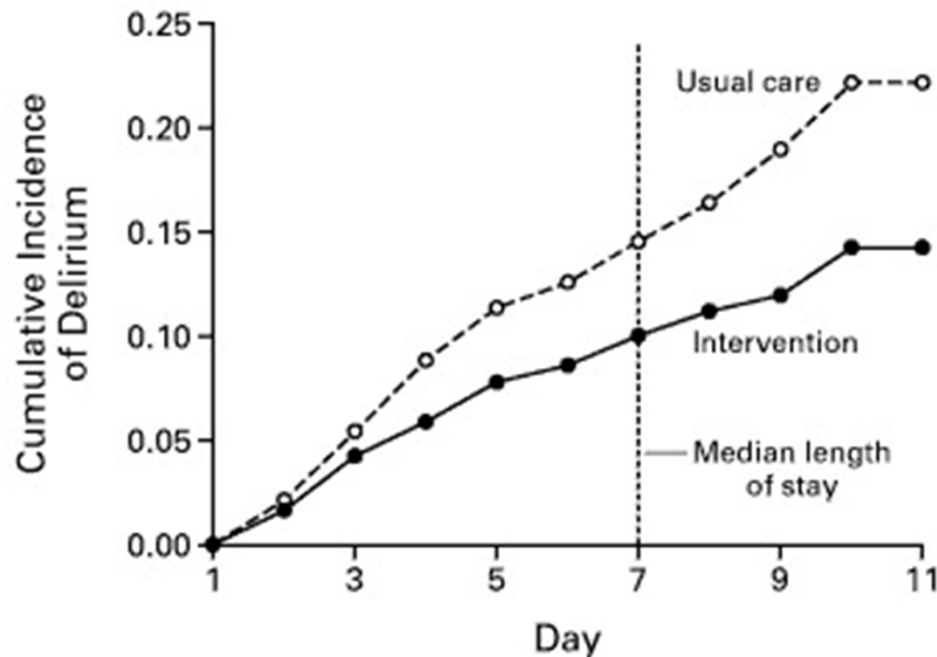


Why is Delirium Significant?

- ▶ Increases inpatient stay by 17.5 million days
 - ▶ Accounts for \$4 billion Medicare expenditures¹
 - ▶ Increases costs after discharge as well
 - ▶ Complicates hospital stays for more than 2.3 million people
 - ▶ One episode increases an individual's risk of morbidity and mortality up to 2 years²
 - ▶ Later diagnosis of dementia
 - ▶ Part of “never events” mandated by the Center for Medicare/aid; delirium increases LOS for patients, affects the staff ratio due to agitation and behaviora
-
- ▶ problems.

Why is Delirium Significant?

Hospital Elder Life Program



6 Risk Factors to Prevent Delirium:

- ▶ Cognition
- ▶ Mobility
- ▶ Vision
- ▶ Hearing
- ▶ Sleep
- ▶ Dehydration

We also added a cultural component

Inouye, Sharon K. "A Multicomponent Intervention to Prevent Delirium in Hospitalized Older Patients."

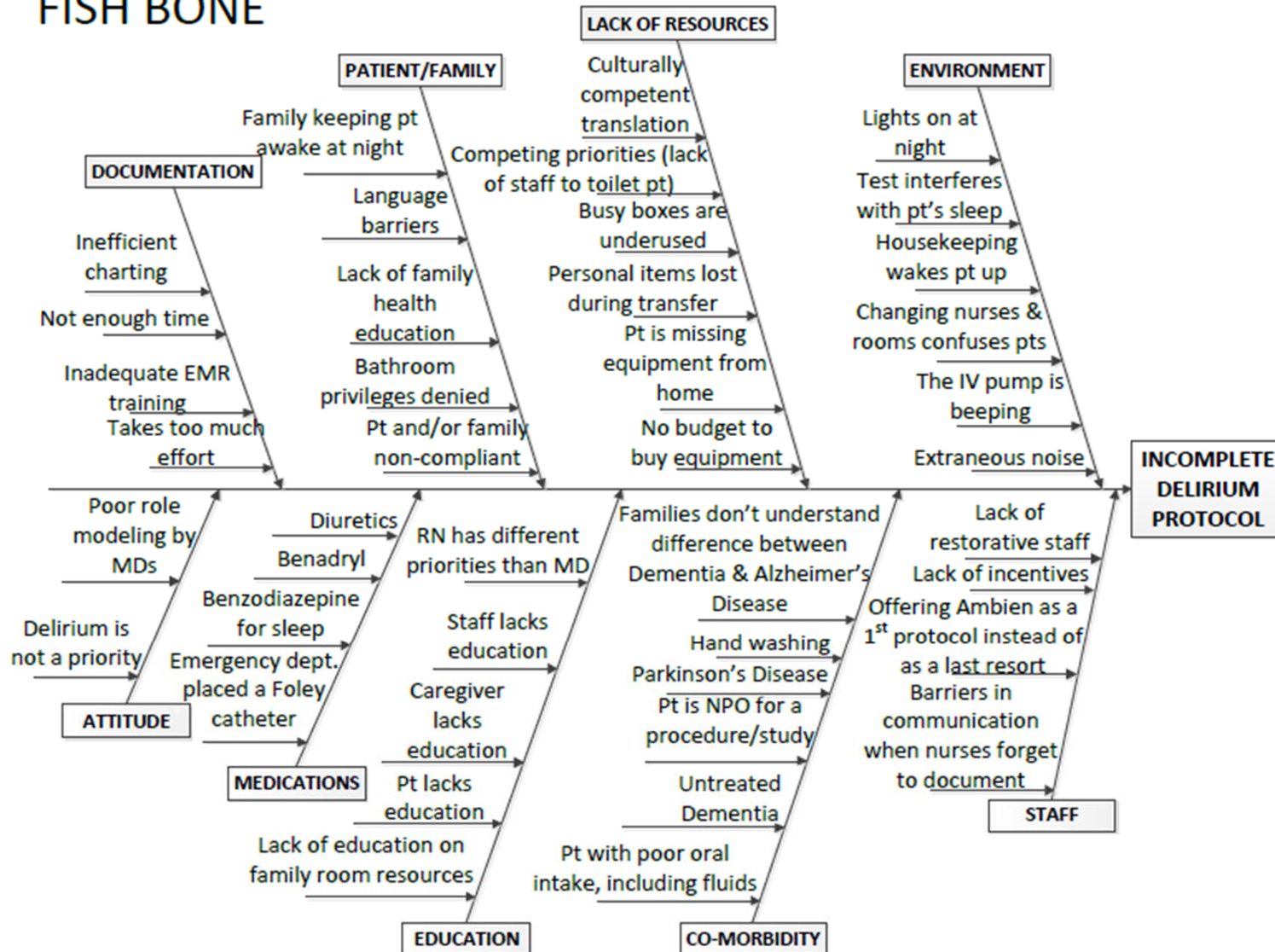
QI Process Tools

- ▶ Measure observations
 - ▶ Shadow RNs/CNAs (day & night shifts)
 - ▶ Figure out barriers/fish bone
 - ▶ Illustrate ideal processes through flow charts
 - ▶ Make decisions for implementation
 - ▶ Standardizations of procedures

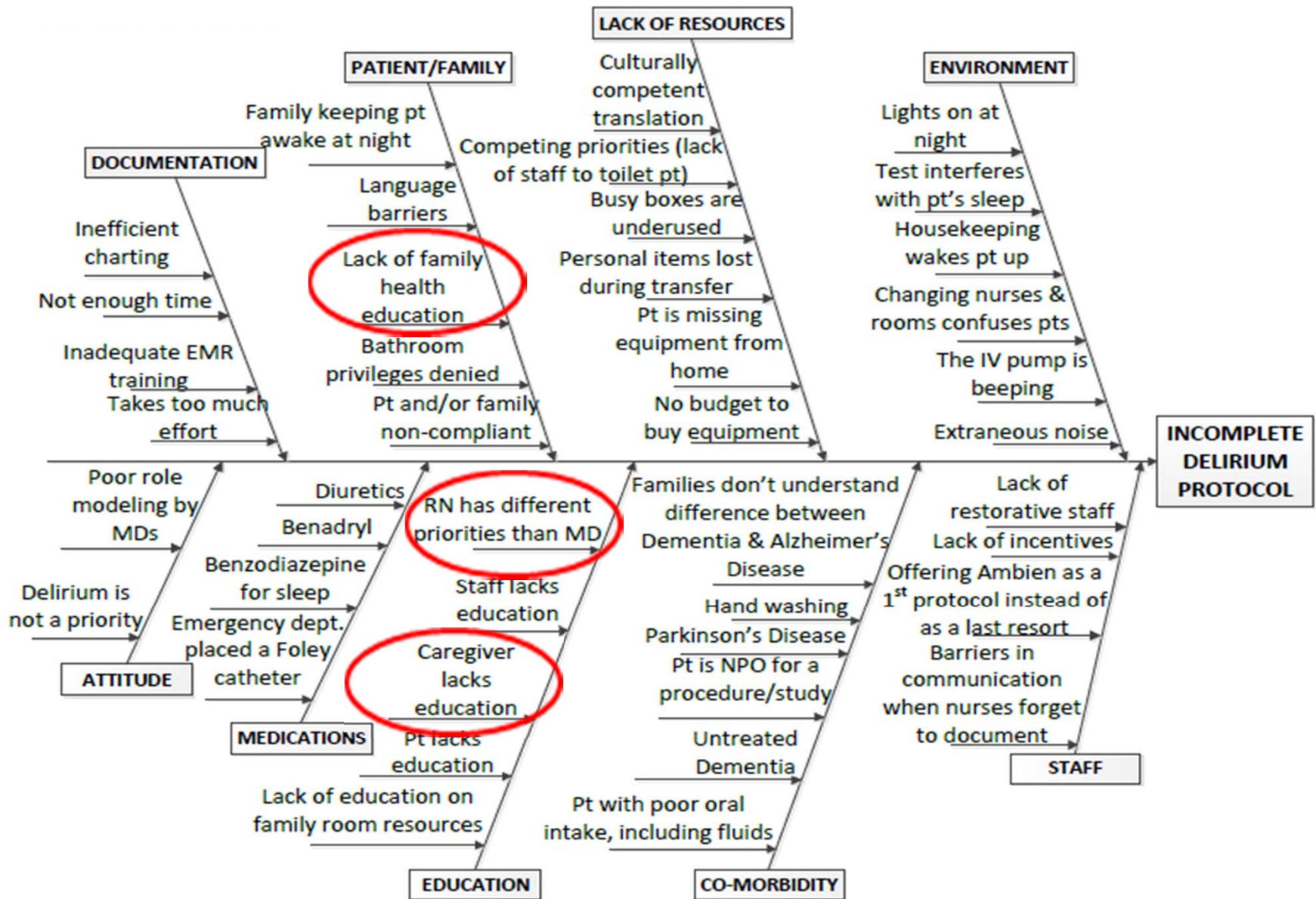


Barriers Leading to an Incomplete Delirium Protocol -PLAN

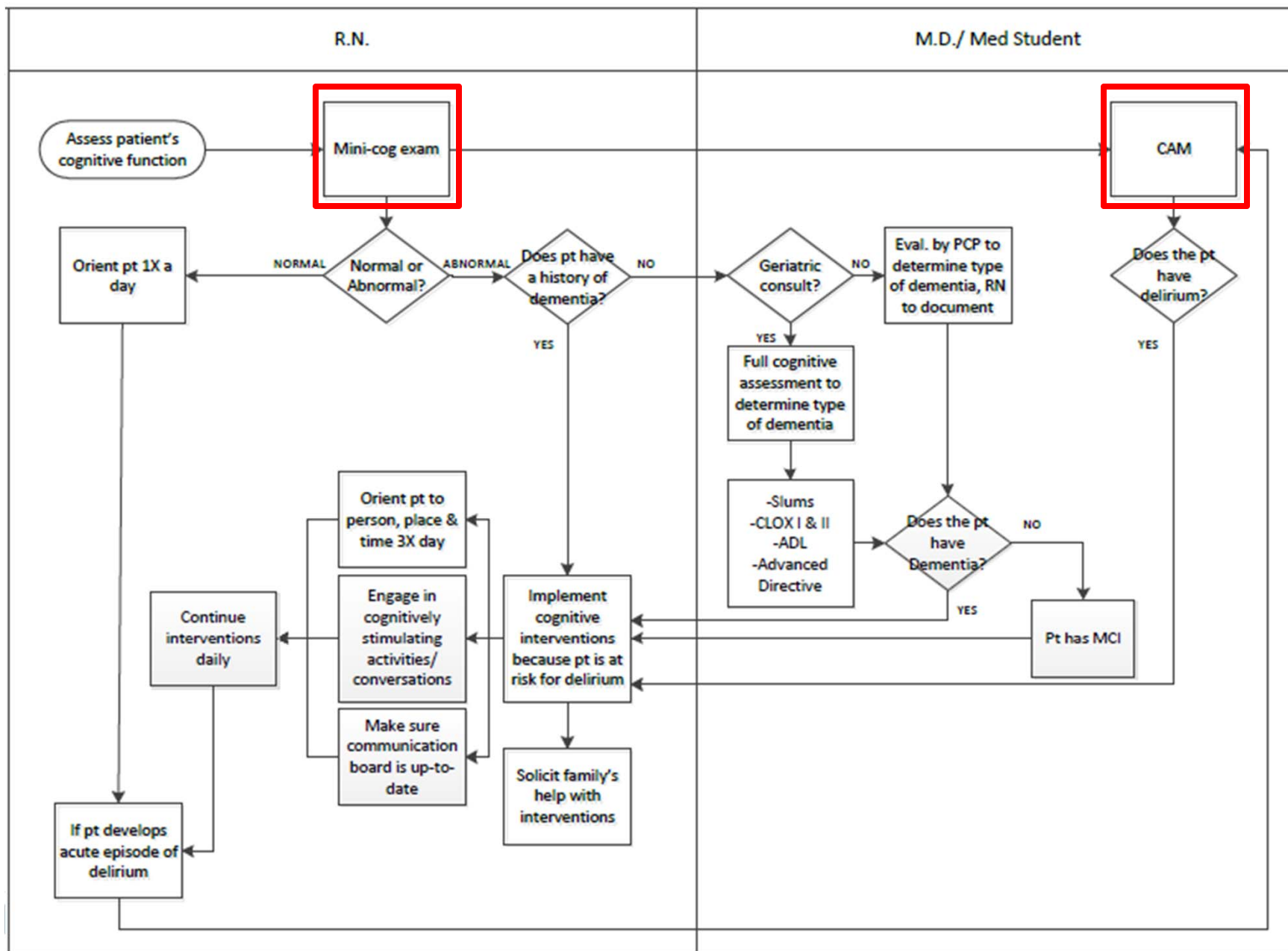
FISH BONE



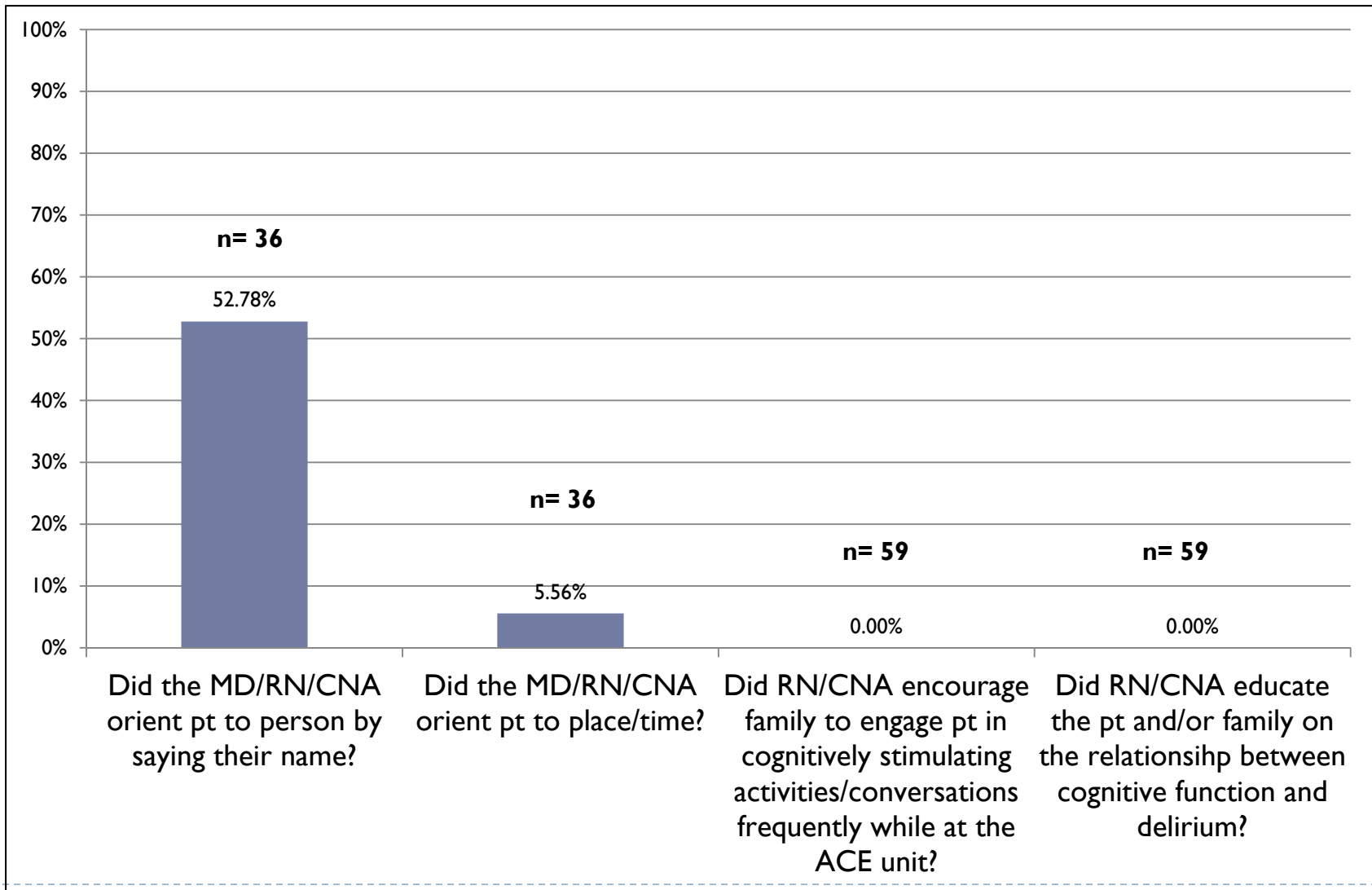
Barriers Leading to an Incomplete Delirium Protocol



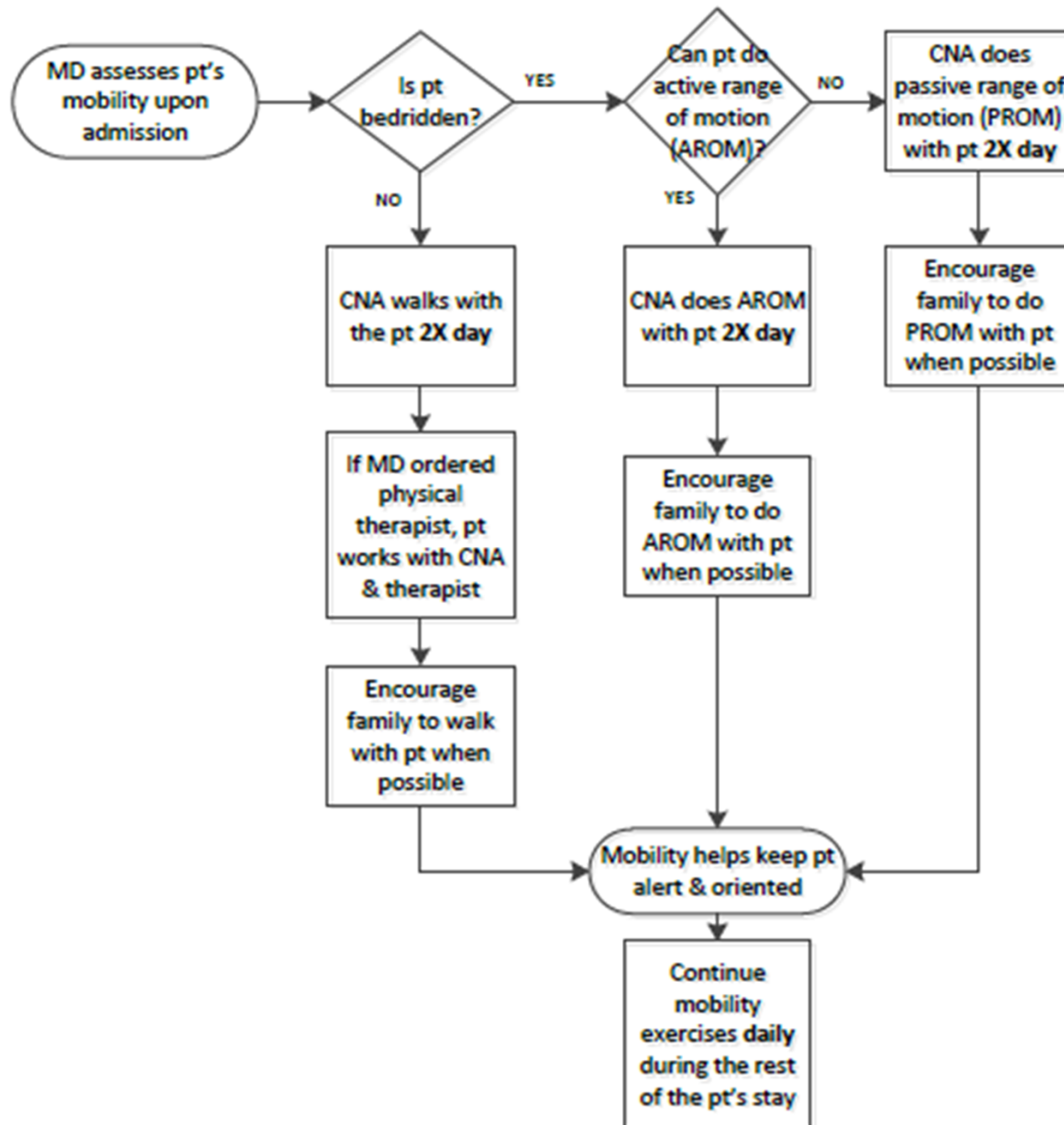
Ideal Cognition Flow Chart



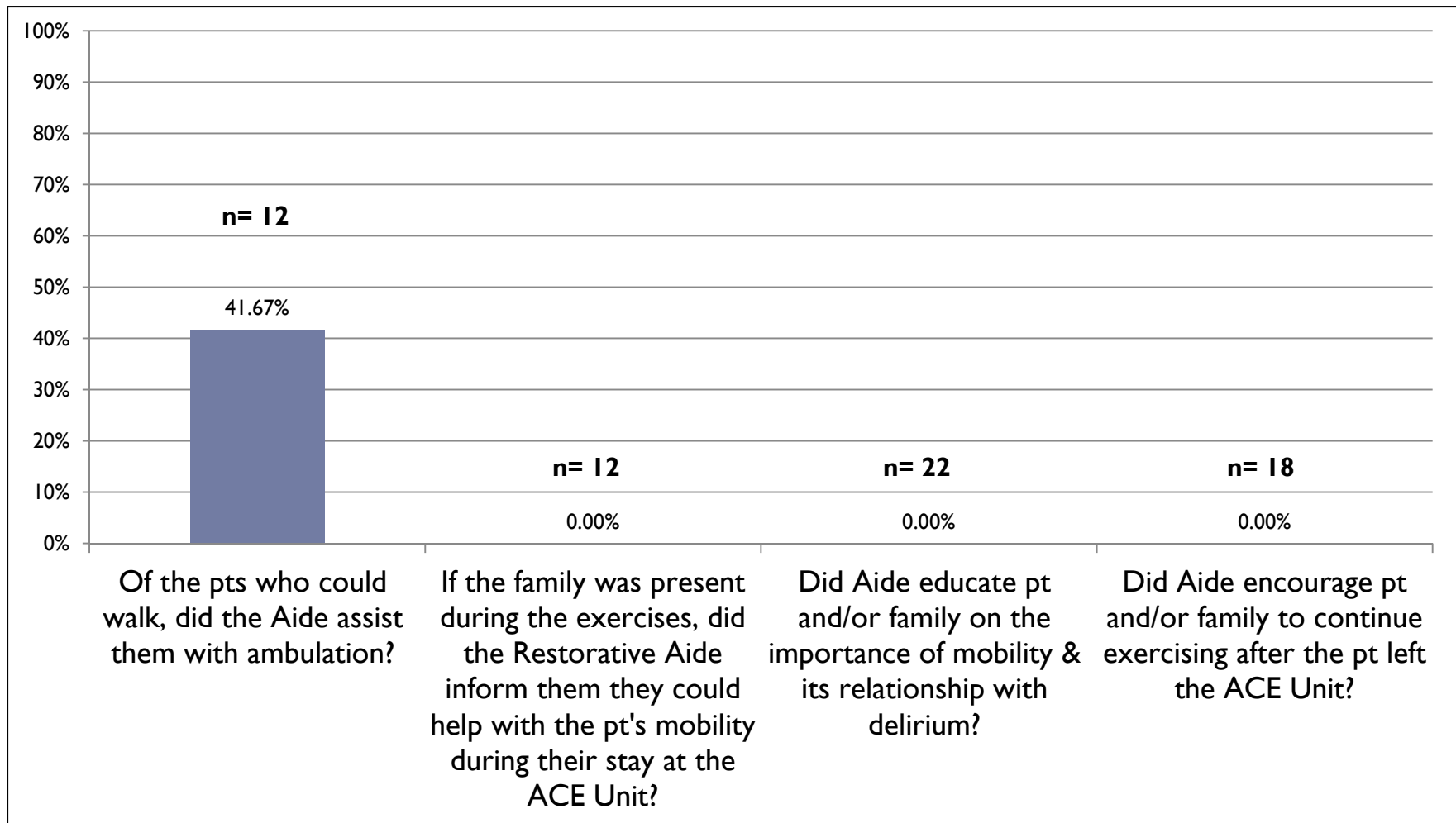
Cognition Portion of Delirium Protocol



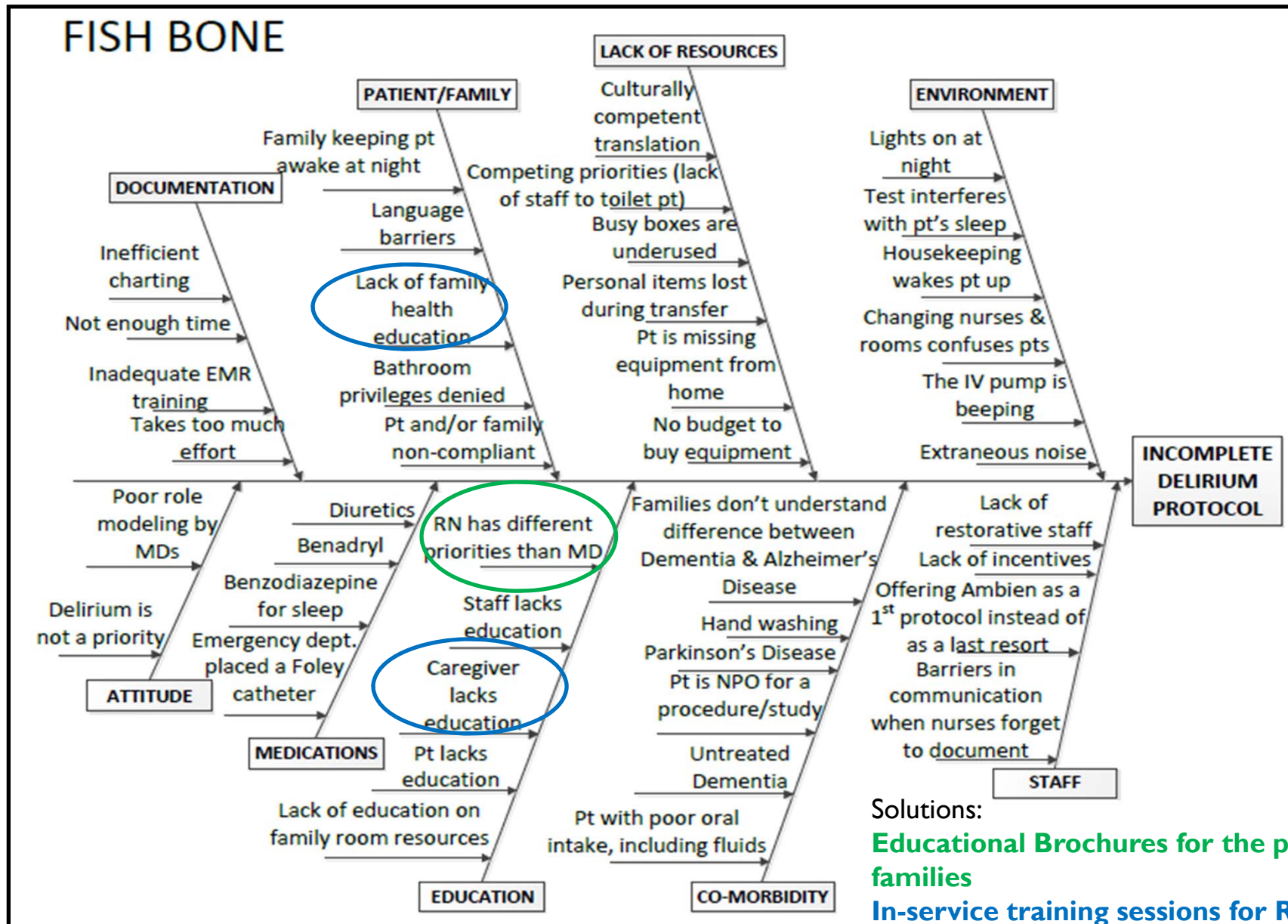
Ideal Mobility Flow Chart



Mobility Portion of the Delirium Protocol

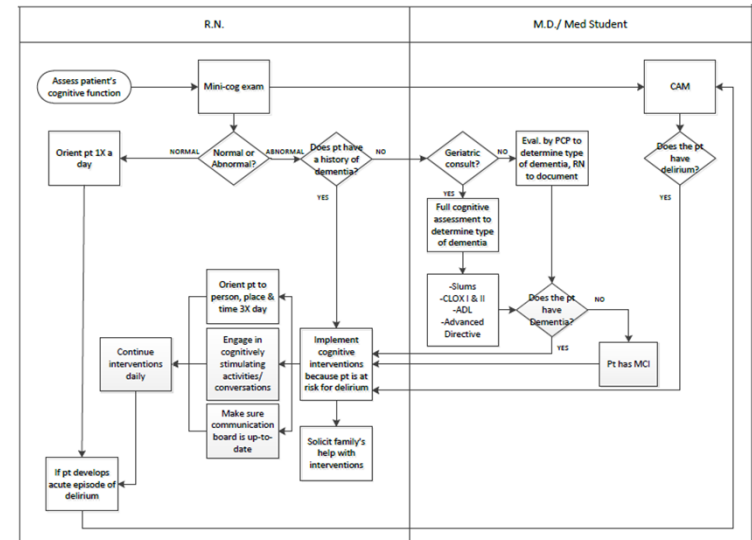


Potential Interventions

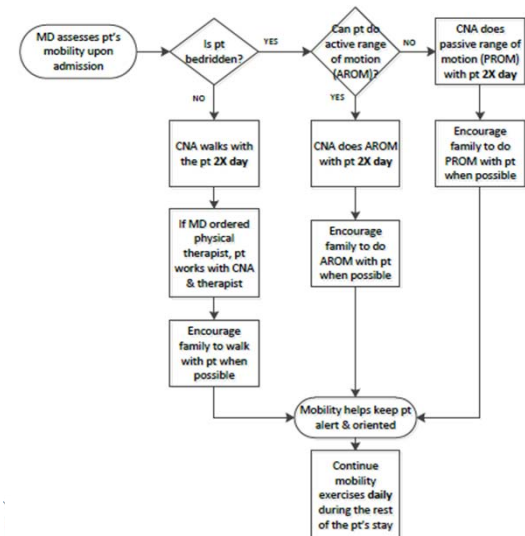


Phase I/ ACT

- ▶ Implement **cognition** protocol
 - ▶ Ask RNs/CNAs to address the pt by name frequently, regardless of mental status.
 - ▶ Teach mini-cog and ask RNs to start using it
 - ▶ Educate pts & families/brochure



- ▶ Implement **mobility** protocol
 - ▶ Ask restorative aide to have the pts count for themselves
 - ▶ Turn off TV during exercises
 - ▶ Ask restorative aide to ambulate pts more
 - ▶ Educate pts & families



Implementing Change & Collecting Results

Collect data/8 weeks
after implementing
cognition & mobility
interventions

- ▶ For each phase:
 - ▶ **DO-** Implement change
 - ▶ **CHECK-** Collect data by observing
 - ▶ **ACT-** Implement change in other units



