



**CSI**

**Consensus Validation Results:  
NANDA, NIC and NOC Categories  
for Long Term Care of People with  
Traumatic Brain Injuries**



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# GOAL

Obtain 100% consensus from experienced nurses of the NANDA, NIC AND NOC categories relevant to people with Traumatic Brain Injuries (TBI) in a long term care (LTC) setting.

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# Sea View Hospital Rehabilitation Center and Home

- Opened in 1973
- LTC facility of the NY HHC
- 1<sup>st</sup> TBI program certified by NYS DOH
- 1<sup>st</sup> TBI program certified in NYC
- Accredited by JCAHO
- 2007 Ernest Codman Award
- Member of AHA





# Sea View's TBI Program

- Opened in March, 1992
- 21 bed unit
- Active rehabilitation program (PT, OT, ST)

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# Criteria for Admission to TBI Program



- TBI diagnosis
- 16 years and older
- Rehabilitation potential- 3 to 18 months
- Medically stable
- No active hx of alcohol or substance abuse
- No ventilators
- Not a danger to self or others



# Research Study: Participant Selection Criteria

- Licensed as Registered Professional Nurse
- At least 3 yrs experience since graduation
- At least 1 yr experience working at Sea View
- Signed Informed Consent

**COLLEGE OF STATEN ISLAND AND  
SEA VIEW'S NURSING DEPARTMENT  
SEEKING**

**RN VOLUNTEERS  
FOR  
RESEARCH STUDY**

YOUR HELP IS NEEDED TO IDENTIFY  
CORE DIAGNOSES  
NURSING INTERVENTIONS  
PATIENT OUTCOMES

3 PHASES : 6-10 HOURS FOR EACH PHASE

OPPORTUNITY TO LEARN  
NORTH AMERICAN NURSING DIAGNOSIS ASSOCIATION  
(NANDA)  
NURSING INTERVENTION CLASSIFICATION (NIC)  
NURSING OUTCOME CLASSIFICATION (NOC)

★ POSSIBILITY OF HAVING THE RESEARCH PUBLISHED ★

*IF INTERESTED PLEASE READ ATTACHED CRITERIA,  
COMPLETE AND SIGN FORM, RETURN TO*

*MARIA MCGUIRE RNC, CARE MANAGEMENT  
NANCY ENDOZO ADN, NURSING DEPARTMENT*





# Researchers and Participants

- Margaret Lunney, RN, PhD, PI
- Maria McGuire, RNC, MPA, Research Facilitator
- Nancy Endozo, RN, BSN, Clinical Team Leader
- Dorothy McIntosh-Waddy, RN, BS, Participant
- Patricia Decker, RN, Participant
- Shereen Ravindran, RN, Participant





# Methodology

- Approved by IRB
- 3 participant nurses
- Led by 2 leaders – trained by researcher
- Met regularly over 1 ½ yrs
- Participants were paid for sessions
- Individual selections of NANDA, NIC AND NOC categories on their own

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# Phase I: Nursing Diagnoses, NANDA International (I)

## Review each diagnosis

- Definition
- Defining Characteristics
- Related Factors



# NANDA-I

<b>Nursing Diagnosis</b>	<b>Highly Relevant</b>	<b>Somewhat Relevant</b>	<b>Not Relevant</b>
Adjustment, impaired			
Airway clearance, ineffective			
Aspiration, risk for			
Bowel Incontinence			
Diversional activity, deficient			
Falls, risk for			
Mobility, bed, impaired			



# Phase II: Nursing Interventions Classification (NIC)

- Review definition of nursing diagnosis
- Relevant nursing interventions
  - Definition of each intervention
  - Activities
- Additional optional interventions

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# NIC

<b>Nursing Diagnosis</b> Airway clearance, ineffective	<b>Highly Relevant</b>	<b>Somewhat Relevant</b>	<b>Not Relevant</b>
Airway Management			
Airway Suctioning			
Anxiety Reduction			
Aspiration Precautions			
Cough Enhancement			
Mutual Goal Setting			
Oxygen Therapy			



# Phase III: Nursing Outcomes Classification (NOC)

- Review definition of nursing diagnosis
- Review relevant interventions
- Definition of each nursing outcome
- Appropriate changes as needed – if outcome does not fit diagnosis or intervention



# NOC

<b>Nursing Diagnosis</b> Airway clearance, ineffective	<b>Highly Relevant</b>	<b>Somewhat Relevant</b>	<b>Not Relevant</b>
Aspiration Prevention			
Respiratory Status: Airway Patency			
Respiratory Status: Ventilation			

# Ex: Nursing Standards of Practice For Adults with TBI



<b>Nursing Diagnosis</b>	<b>Nursing Intervention</b>	<b>Nursing Outcome</b>
Airway clearance, ineffective	Airway Suctioning	Aspiration Prevention
	Aspiration Precautions	Respiratory Status: Airway Patency
	Cough Enhancement	Respiratory Status: Ventilation
	Oxygen Therapy	
	Medication Administration: Inhalation	
	Positioning	
	Vital Signs Monitoring	



# Findings

- 29 NANDA – I diagnoses, each with 3- 11 NIC interventions and 1-13 NOC outcomes
- Emphasis on physical problems, prevention of problems, and psychosocial responses
- Team learned NANDA, NIC and NOC
- Task was challenging, difficult and fun



# Cost

Total time spent – 159 hours X \$ 35.00 =  
\$5,565.00

Books - \$600.00

NANDA

NIC

NOC

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# Staff Nurses Experiences

- Enormity of project scope even with this defined population
- Realization of the complexity of nursing
- Need for critical thinking skills
- Value of collaboration with each other

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# Conclusions

- Consensus validation method can be used for nurses in any agency setting to identify relevant NANDA, NIC and NOC categories
- Participant action research methods provide a useful way to implement nursing research in agency settings

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# Future Plans

- Plans are underway to extend research to identify NNN for residents with Dementia
- Magnet status application

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