



**MSU Pre-Physician Association**

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*Certified Therapeutic Recreation Specialist*

*Certified Brain Injury Specialist*

# About TBI...

- ▶ Traumatic Brain Injury (TBI) is an insult to the brain, not of a degenerative or congenital nature but ***caused by an external physical force***, that may produce a diminished or altered state of consciousness, which results in an impairment of cognitive abilities or physical functioning. It can also result in disturbance of behavioral or emotional functioning. These impairments may be either ***temporary or permanent*** and cause partial or total functional disability or psychosocial maladjustment.



# More About TBI...

- ▶ **Causes of TBI Include**
  - Motor vehicle crashes, falls, gunshot wounds, sports injuries, workplace injuries, child abuse, domestic violence, military actions and other injuries caused by trauma
- ▶ **TBIs are also Acquired Brain Injuries (ABIs)**
  - ABIs include causes such as TBI, tumor, blood clot, stroke, seizure, toxic exposure, infections & anoxia.
- ▶ **Concussions are mild TBIs that often go undiagnosed as a brain injury.**
- ▶ **Every 23 seconds, one person in the United States sustains a Traumatic Brain Injury.**
- ▶ **1.4 Million TBIs occur every year.**



# About Origami...

- ▶ Origami is located on 35 acres of beautiful wooded campus just outside of Lansing, MI.
- ▶ Our doors opened over 18 years ago, in April 1997.
- ▶ We primarily serve individuals with a diagnosis of Traumatic Brain Injury (TBI), but some have Acquired Brain Injuries (ABI).
- ▶ We have several programs that address the different needs our clients have at different points during the rehabilitation process.
- ▶ An interdisciplinary approach is used that addresses physical, social, spiritual, cognitive emotional needs.



# More About Origami...

- ▶ State Licensed Adult Foster Care (AFC) Large Group Home
- ▶ Accredited by Commission on Accreditation of Rehabilitation Facilities (CARF) International
- ▶ Veteran's Services
  - Origami is one of 21 facilities nationwide to be selected to participate in the Assisted Living Pilot Program for Veterans with Traumatic Brain Injury (AL-TBI) by the U.S. Department of Veterans Affairs



# The Rehabilitation Programs...

- ▶ Residential Program
  - 16 Bed Residential Facility
    - Transitional (Short Term)
    - Long Term (1 Year or More)
- ▶ Day Program
- ▶ Community Based Program
  - Semi-Independent Living
    - 6 Individual Apartments On-Site
  - Community Integration
- ▶ Outpatient Program



# Services & Disciplines...

- ▶ Attending Physicians
- ▶ Medical Director
- ▶ Neuro–Psychiatrist
- ▶ Psychologists
- ▶ Social Workers
- ▶ Care Coordinators
- ▶ Licensed Nurse
- ▶ Occupational Therapists
- ▶ Speech Language Pathologists
- ▶ Physical Therapists



# More Services & Disciplines...

- ▶ Dietitian
- ▶ Recreational Therapist
- ▶ Art Instructor
- ▶ Vocational Services Specialist
- ▶ Rehabilitation Aides
- ▶ Patient Care Technicians (PCTs)
- ▶ Living Skills Staff (LSS)
- ▶ Yoga Instructor
- ▶ Volunteer Chaplain
- ▶ Therapy Dogs



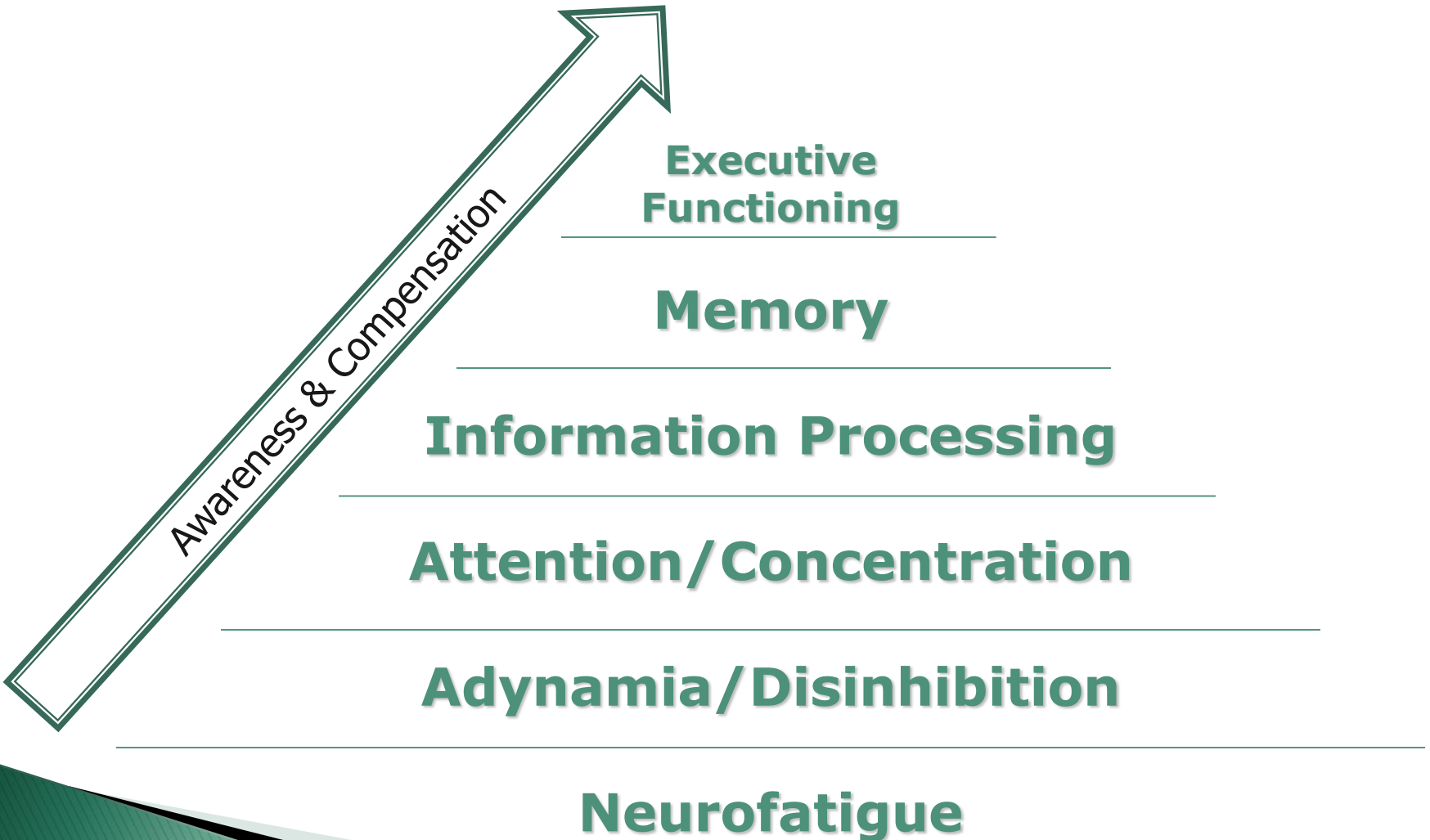


# Recreational Therapy at Origami...

- ▶ **Certified Therapeutic Recreation Specialist (CTRS)**
- ▶ **Therapy Groups & Leisure Opportunities**
  - Art Therapy
  - Woodworking
  - Town Hall
  - Adapted Yoga
  - Culinary Delights
  - Aquatic Therapy
  - Scheduling Group
  - Newsletter Group
  - Exercise Group
  - Gardening
  - Community Outings (Bowling, Coffee/Ice Cream, Seasonal Events)
  - Individualized Sessions
  - Provide Resources
    - Games, Reading Material, Music, Movies, etc.



# Hierarchy of Cognitive Functions...



# Hierarchy of Cognitive Functions...

- ▶ **Neurofatigue**
  - Fatigue that is organically based and NOT due to excessive activity or abnormal sleep patterns. It can emerge suddenly without warning, especially after engaging in a cognitively demanding task.
- ▶ **Adynamia/Disinhibition**
  - Adynamia: Low mental energy or apparent lack of will. Not “dynamic.”
  - Disinhibition: A syndrome marked by difficulty properly directing and controlling energy and emotions.
- ▶ **Attention/Concentration**
  - Staying awake, alert and ready, focusing, and keeping a train of thought.
- ▶ **Information Processing**
  - Taking environmental stimulation in through the five senses, interpreting it, and responding to it.
- ▶ **Memory**
  - Taking in new information, holding on to information, and recalling information when needed.
- ▶ **Executive Functions**
  - The ability to reason, plan, problem solve, make inferences, and/or evaluate results of actions and decisions.



# Glasgow Coma Scale...

- ▶ A measure of brain injury severity.
- ▶ Scores range from 3–15.
- ▶ The lower the score, the more severe the brain injury.
- ▶ **Mild Brain Injury**
  - GCS Score 13–15
  - Loss of Consciousness less than 30 minutes (possibly no Loss of Consciousness)
- ▶ **Moderate Brain Injury**
  - GCS Score 9–12
  - Coma, more than 20–30 minutes, but less than 24 hours
- ▶ **Severe Brain Injury**
  - GCS Score 3–8
  - Coma lasting longer than 24 hours, often lasting days or weeks.

Table 1: THE GLASGOW COMA SCALE AND SCORE

Feature	Scale Responses	Score Notation
Eye opening	Spontaneous	4
	To speech	3
	To pain	2
	None	1
Verbal response	Orientated	5
	Confused conversation	4
	Words (inappropriate)	3
	Sounds (incomprehensible)	2
	None	1
Best motor response	Obey commands	6
	Localise pain	5
	Flexion – Normal	4
	– Abnormal	3
	Extend	2
	None	1
<b>TOTAL COMA 'SCORE'</b>		<b>3/15 – 15/15</b>



# Ranchos Los Amigos Scale...

- ▶ The Ranchos Los Amigos Scale rates cognitive functioning and expected behaviors through an assessment of levels 1–10.
- ▶ A scale used to describe and communicate the patient's level of functioning – the lower the score, the lower the patient is functioning.

## The Scale:

- ▶ Level I
  - No Response: Total Assistance
- ▶ Level II
  - Generalized Response: Total Assistance
- ▶ Level III
  - Localized Response: Total Assistance
- ▶ Level IV
  - Confused/Agitated: Maximal Assistance
- ▶ Level V
  - Confused, Inappropriate Non-Agitated: Maximal Assistance
- ▶ Level VI
  - Confused, Appropriate: Moderate Assistance
- ▶ Level VII
  - Automatic, Appropriate: Minimal Assistance for Daily Living Skills
- ▶ Level VIII
  - Purposeful, Appropriate: Stand-By Assistance
- ▶ Level IX
  - Purposeful, Appropriate: Stand-By Assistance on Request
- ▶ Level X
  - Purposeful, Appropriate: Modified Independent



# Volunteer Introduction to Origami

## ▶ Mission Statement

- **Treat** persons with brain injury by using sensory motor reintegration and neurobehavioral rehabilitation in a supportive and home-like environment.
- **Utilize** community resources and real life responsibilities as the basis of therapeutic treatment.
- **Operate** a model program that generates excellent clinical outcomes with cost effective management.
- **Educate** family, friends, employers, and the community to facilitate the reintegration of persons with brain injury into society.
- **Pursue** scholarly development of innovative approaches to brain injury rehabilitation.

## ▶ Vision

- Origami creates an enriched, natural environment in which persons with brain injury can achieve optimal participation in society.

## ▶ Core Value

- Embracing person-centered planning, family participation, and an interdisciplinary approach, we provide rehabilitation in a manner that respects the dignity of the individual.

# Role Expectations

- ▶ **Volunteer:** Performs service that best connects the individual's qualifications with the needs of Origami and its population served. Such examples include, but are not limited to: spending quality time with clients, arts and crafts, gardening, involvement in recreation specific groups, data collection, greeting guests, and secretarial tasks.
- ▶ Interns, volunteers, and job shadows coming in for 4 or more visits are required to comply with all aspects of the handbook via signature.

# Confidentiality & HIPAA Guidelines

- ▶ During the course of your placement you will be working with clients, family members, potential referral sources, business systems, future strategic plans, research and development data, and other information that we consider to be highly confidential. The legal and ethical imperative for confidentiality regarding clients is clearly spelled out in the HIPAA guidelines. Protect information by safeguarding it when in use, properly filing it when not in use, and discuss it only with those who have a **legitimate need to know**.
- ▶ Information regarding clients must be held confidential and be managed in an ethical way. Information will not be released to outside parties without specific signed releases. Please see your supervisor for more information.
- ▶ **Consider:**
  - ▶ • Reasonable precautions and minimal necessary communication when discussing a client's care with another healthcare professional.
  - ▶ • Limited information when leaving messages on answering machines.
  - ▶ • The client has a right to their medical records, upon request; however, this is to be conducted in accordance to procedure.
  - ▶ • When using email or faxes for sending protected health information (PHI), actions must follow the security rules defined under HIPAA.

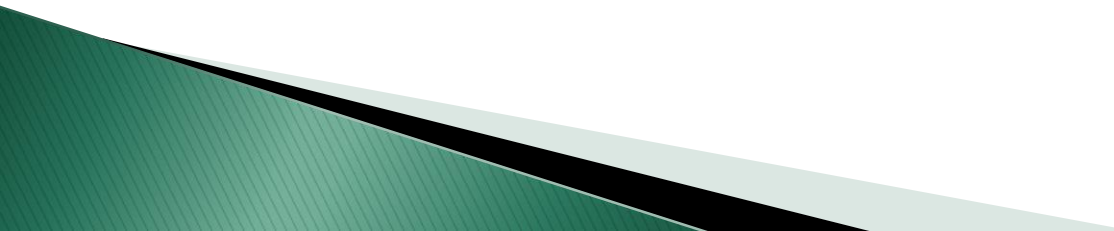


- ▶ Per HIPAA guidelines, you **cannot report** the following information in any project or assignment you maybe fulfilling as part of your role (i.e. fieldwork assignments, such as case studies and presentations):
  - ▶ ▪ Name
  - ▶ ▪ Location – Includes anything smaller than a state, such as street address
  - ▶ ▪ Dates – all, including date of birth, admission and discharge dates
  - ▶ ▪ Telephone numbers
  - ▶ ▪ Electronic email addresses
  - ▶ ▪ Social security numbers
  - ▶ ▪ Medical record numbers
  - ▶ ▪ Health plan beneficiary numbers
  - ▶ ▪ Account Numbers
  - ▶ Fax Numbers
    - ▶ ▪ Certificate and/or license numbers
    - ▶ ▪ Vehicle identification numbers and license plate numbers
    - ▶ ▪ Device identifiers and their serial numbers
    - ▶ ▪ Web Universal Resource Locators (URLs)
    - ▶ ▪ Internet Protocol (IP) address numbers
    - ▶ ▪ Biometric identifiers, including finger and voice prints
    - ▶ ▪ Full face photographic images and any comparable images
    - ▶ ▪ Any other unique identifying number, characteristic, or code.
  - ▶ For written reports, the following information can be shared:
    - ▶ ▪ Age (age 90 and over must be aggregated to prevent the identification of older individuals)
    - ▶ ▪ Race
    - ▶ ▪ Ethnicity
    - ▶ ▪ Marital Status
    - ▶ ▪ Codes (a random code may be used to link cases, as long as the code does not contain, or be a derivative of, the person's social security number, date of birth, phone/fax numbers, etc.).

# Personal Care, Supervision & Protection

- ▶ Care and services provided to clients must be designed to promote independence and improve physical and psychosocial functioning. All interactions with clients will promote and encourage cooperation, self-esteem, self-direction, and return to a maximally functional lifestyle.
- ▶ Supervision, protection, and personal care services will be provided in accordance with all regulatory requirements and as outlined in the individual treatment plan. Positive social and recreational interactions will be provided at Origami facilities and within the community. Clients will also be provided opportunity for rest, leisure activities, and attendance of religious activities of the client's choice.

# Dress and Personal Appearance

- ▶ Interns, shadows, and volunteers are expected to maintain an appropriate appearance that is business-like, neat and clean, as determined by the requirements of the work area. Dress and appearance should not be offensive to clients or other staff members.
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# Gifts

- ▶ At times, our clients or their family members may attempt to give or receive gifts. While well intentioned, there are a variety of potential concerns which should be considered. Any volunteer, intern, or job shadow should seek guidance from their supervisor for instruction and reference to the Gift Giving and Receiving standard operating procedure.



# QUESTIONS?

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