THE EFFECT OF INTEGRATIVE THERAPIES ON PEDIATRIC HEMATOLOGY/ONCOLOGY/ HEMATOPOIETIC STEM CELL TRANSPLANT PATIENTS

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DISCLOSURES

- There is no commercial support associated with this activity
- The presenters have declared no conflict of interest



OBJECTIVES

- Discuss the principles of integrative nursing as they relate to supportive care of the pediatric hematology/oncology/hematopoietic stem cell transplant patient
- Identify three nonpharmacological interventions that help manage the side effects of disease and treatments in pediatric hematology/oncology/hematopoietic stem cell transplant patients
- Recall how nonpharmacological interventions can affect a pediatric patient's vital signs, pain, nausea, anxiety and fatigue



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WHAT IS INTEGRATIVE NURSING?

- "A way of being-knowing-doing that advances the health and wellbeing of persons, families and communities through caring and healing relationships"
- A framework based on a set of principles that are consistent and aligned with major nursing theories

(Kreitzer & Koithan, 2019)





SIX PRINCIPLES OF INTEGRATIVE NURSING

- Human beings are inseparable from their environments
- Human beings have the innate capacity for health and well-being
- Nature has healing and restorative properties that contribute to health and well-being
- Integrative nursing is personcentered and relationship-based

- Integrative nursing practice is informed by evidence and uses the full range of therapeutic modalities to support/augment the healing process, moving from least intensive/invasive to more, depending on need and context
- Integrative nursing focuses on the health and well-being of caregivers as well as those they serve

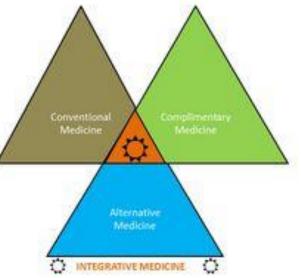
(Kreitzer & Koithan, 2019)



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WHAT ARE INTEGRATIVE THERAPIES (IT)?

- Not considered conventional medicine and used outside mainstream medicine
- Other names
 - Complementary health approaches
 - Complementary alternative medicine (CAM)
- Two groups
 - Natural products
 - Mind-body practices



(Kreitzer & Koithan, 2019)

(U.S. Department of Health and Human Services, National Institutes of Health, U.S. National Library of Medicine, 2018)



PURPOSE FOR USE

CLINICAL INDICATIONS

- Anxiety
- Depressed mood
- ► Fatigue
- Gastrointestinal distress
- ► Headache
- Pain
- Insomnia

PATIENT REPORTED

- ► Fear / Worry
- ► Pain
- ► Distraction
- Stress
- Sleeplessness
- Isolation / Loneliness
- ► Curiosity
- ► Boredom

Often patients and families need to experience Integrative Therapies to understand them!



CURRENT RESEARCH

- Integrative therapies are considered safe and have low risk of interference with conventional therapies, but evidence is insufficient (Jacobs, 2014)
- Between 31%-84% of pediatric oncology patients use CAM, most often as supportive care (Ladas, 2018)
- Parents and patients report massage provides benefits during cancer treatment including symptom relief (Ladas, 2018)
- Two small studies showed yoga is safe and feasible in pediatric oncology patients receiving chemotherapy, but further research is needed for efficacy of symptom management (Jacobs, 2014)
- Reiki is well received by children and adults reporting no adverse effects (Jacobs, 2014)
- Complementary therapies improve quality of life and reduced symptom distress in adult oncology patients (Stomski, et al., 2018)



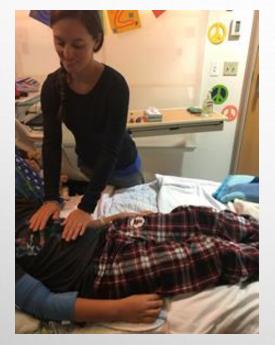
2018 JOINT COMMISSION ADVISORY

- Advisory on evidence-based nonpharmacological solutions for pain management
 - Organizations are required to provide non-pharmacological pain modalities relevant to its patient population
 - These modalities serve as a complementary approach for pain management and may reduce the need for opioid medication in some circumstances

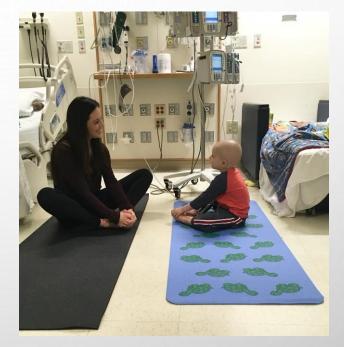
(The Joint Commission, Division of Healthcare Improvement, 2018)



BOSTON CHILDREN'S HOSPITAL HEME / ONC / HSCT INTEGRATIVE THERAPIES (IT) PROGRAM



- ► Nursing led
- ► Donor funded



- Standard of care
- Enhanced well-being



BOSTON CHILDREN'S HOSPITAL IT PROGRAM OFFERINGS

- ► Patient Reiki
- Patient Massage
- ► Patient Yoga
- Caregiver Yoga
- Caregiver Massage
- ► Caregiver Reiki
- Sound Healing
- Headspace© App



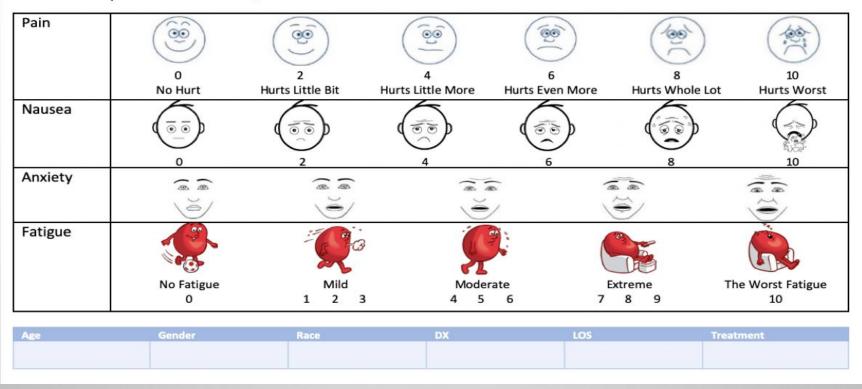


DATA COLLECTION METHODS

Pre Integrative Therapies

Pre HR Pre RR

Circle the face that best matches your current level of:



Pain: Wong-Baker FACES® scale

Nausea: Baxter Animated Retching Faces (BARF) scale

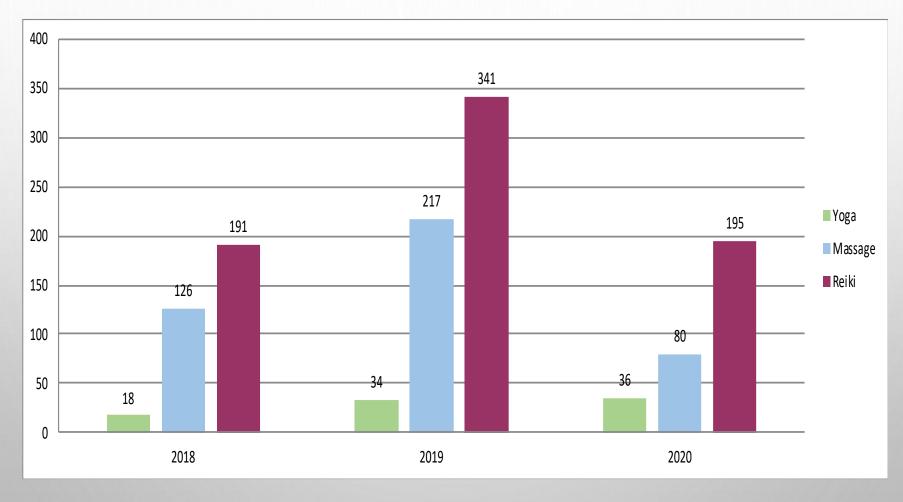
Anxiety: Children's Fear Scale

Boston

Fatigue: Oncology Nursing Society® Fatigue Scale

Dana-Farber

PATIENT INTEGRATIVE THERAPY SESSIONS





DEMOGRAPHICS





SURVEY STATISTICS

381 Surveys

►72% of pre-surveys completed (n=275)

► 39% of post surveys completed (n=149)

► 60% of post surveys were not completed (n=227)

- 77% of patients were asleep (n= 175)
- > 22% of patients were too young/developmentally unable (n=50)



EFFECT OF IT ON PAIN





EFFECT OF IT ON NAUSEA



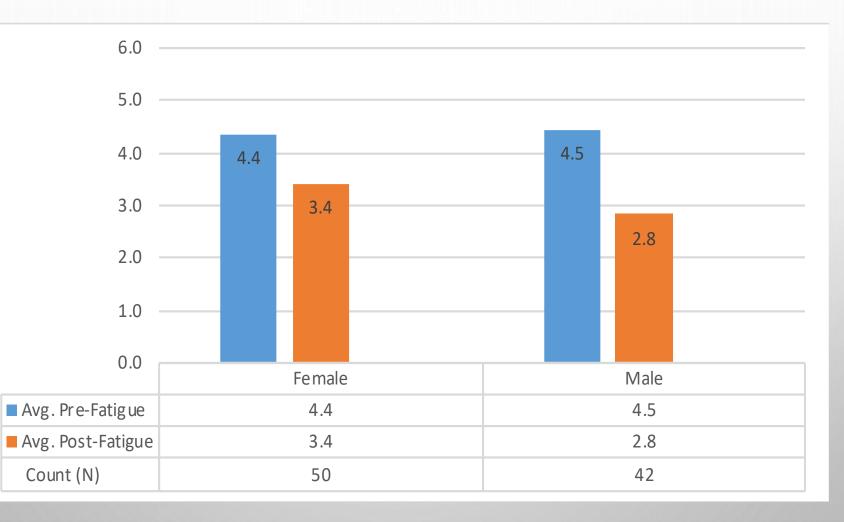


EFFECT OF IT ON ANXIETY





EFFECT OF IT ON FATIGUE



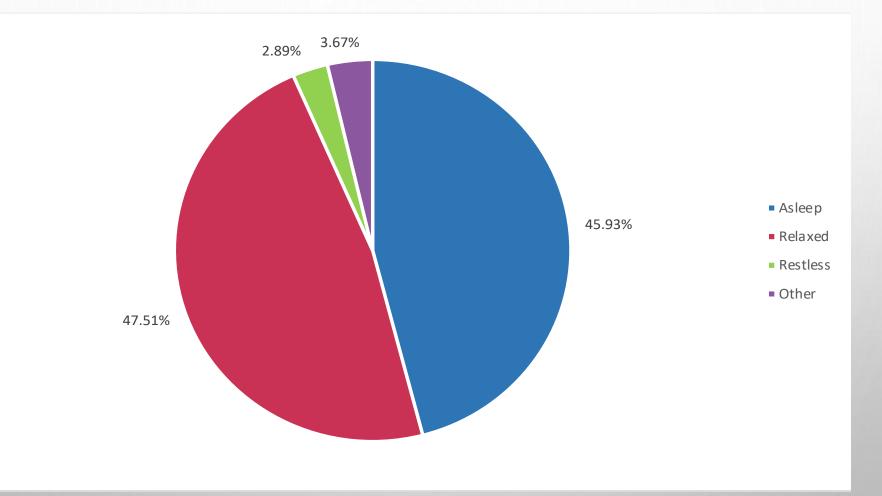


SUMMARY OF QUANTITATIVE DATA

Variable	Completed surveys reporting > 0 on the pre-variable	# of patient reported decreases	% of change from original value
Pain	n=69	37 (54%)	69% 🦊
Nausea	n=29	24 (83%)	47% 🦊
Anxiety	n=54	43 (80%)	36% 🦊
Fatigue	n=94	55 (59%)	71% 🦊



NURSING OBSERVATIONS





WHAT PATIENTS ARE SAYING

- "That was delicious, thank you"
- "I feel less anxious"
- "I feel so relaxed and ready to nap"
- "You should offer this more often. It really helps with my anxiety"
- "I like reiki."
- "I feel way better!"
- "It helped calm me."

I like Reiki because.... it relaxes me it makes me forget about being in the Hospital and the pain it helps me focus on happy thoughts



WHAT CAREGIVERS ARE SAYING

- "There's calm and relaxed energy. She's relaxed and peaceful after"
- "Integrative therapies have been very healing. She's always calmer, less pain, less stress ©"
- "Thank you for making this service available to your patients."
- "Reiki helped him a lot. I noticed my son was more relaxed. Less pain, discomfort, vital signs improved."
- "My daughter loves getting massage to relieve herself from back pain. She feels content after massage."
- "She receives reiki very well and feels the relaxing and calming effect. It's her means to relax and be more herself."
- "My daughter needs the therapies. She always looks forward to the next session."
- "He is playing, he is happy, thank you."
- "She asks for reiki every morning. It helps her relax and be comfortable. She always takes a restful nap during and after."



IMPLICATIONS/NEXT STEPS

Value to patient care

- Statistical significance
- Standard error with incomplete data sets
 - Improvements with data collection



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THANK YOU!



