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

Kristen Guilmette, BSN, RN, CPHON[®], RYT-200, RCY-50, Reiki II

Margaret Brill Conway, BSN, RN, CPHON[®], RYT-500, Reiki Master

44th Annual APHON Conference--September 2020



Dana-Farber/Boston Children's Cancer and Blood Disorders Center

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



ber/Boston Children's Cancer and Blood Disorders Cente

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

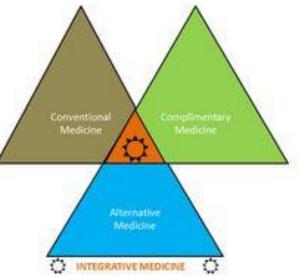
(Kreitzer & Koithan, 2019)



Dana-Farber/Boston Children's Cancer and Blood Disorders Center

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)



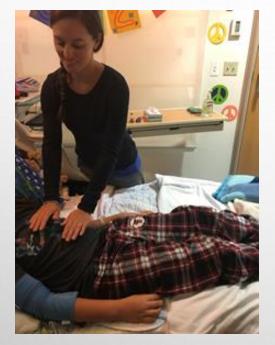
2018 JOINT COMMISSION ADVISORY

- 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

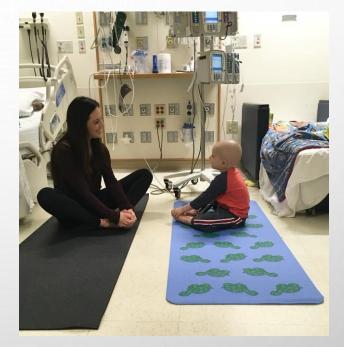
(The Joint Commission, Division of Healthcare Improvement, 2018)



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



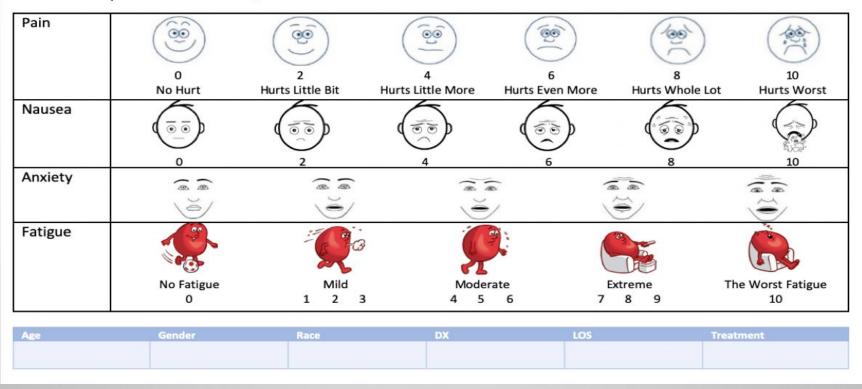


DATA COLLECTION METHODS

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

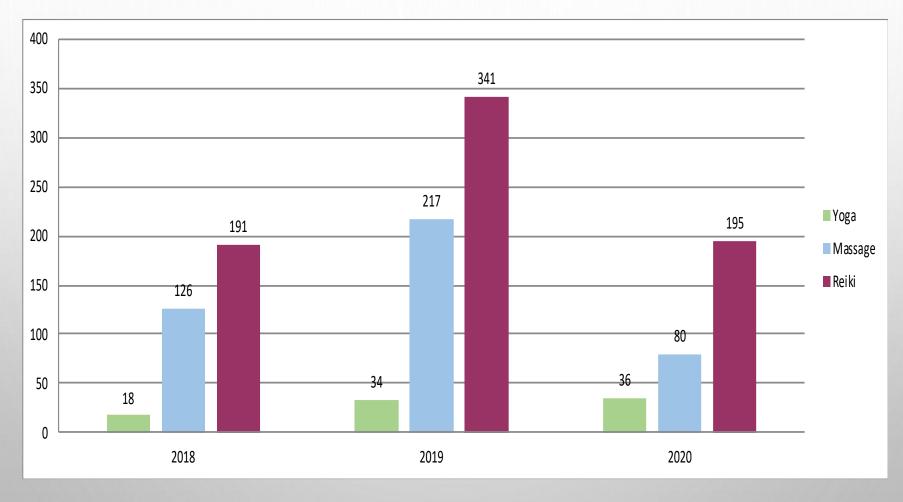
Anxiety: Children's Fear Scale

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)

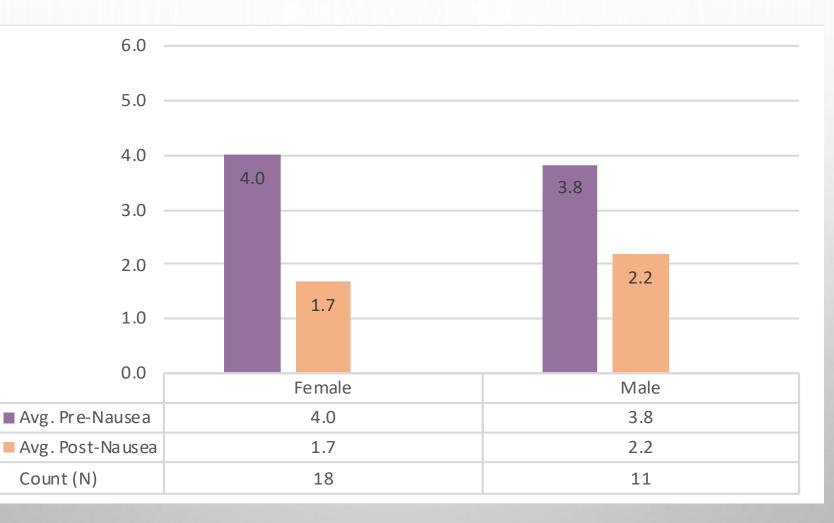


EFFECT OF IT ON PAIN





EFFECT OF IT ON NAUSEA



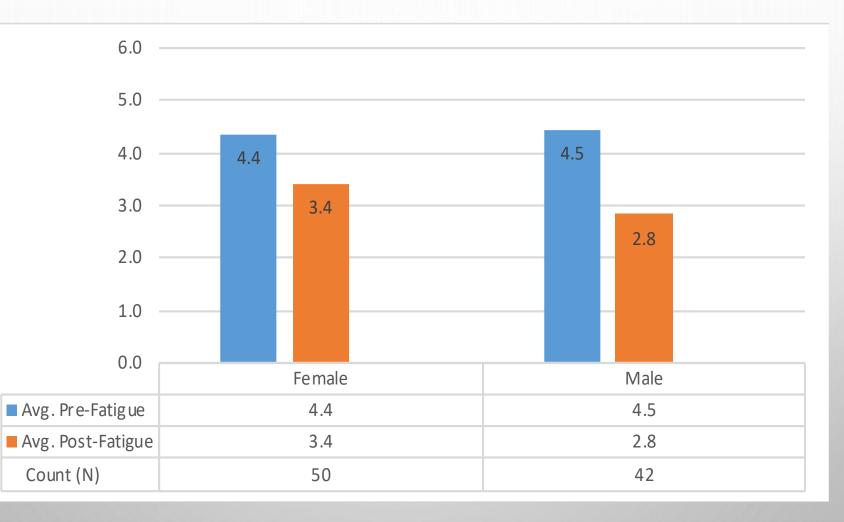


EFFECT OF IT ON ANXIETY





EFFECT OF IT ON FATIGUE



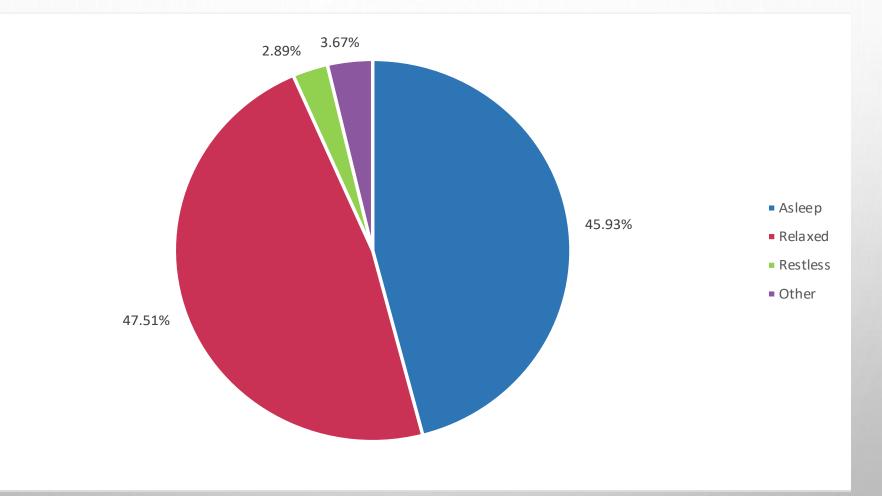


SUMMARY OF QUANTITATIVE DATA

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



REFERENCES

- Jacobs, S.S. (2014). Integrative therapy use for management of side effects and toxicities experienced by pediatric oncology patients. *Children*, 1, 424-440.
- The Joint Commission, Division of Healthcare Improvement. (2018, August). Non-pharmacologic and non-opioid solutions for pain management. Quick Safety, issue 44, 1-2. Retrieved from https://www.jointcommission.org/resources/news-and-multimedia/newsletters/newsletters/quick-safety/quick-safety-44-nonpharmacologic-and-nonopioid-solutions-for-pain-management/
- ▶ Kreitzer, M.J., & Koithan, M. (2019). Integrative Nursing, 2nd Ed. New York, NY: Oxford University Press.
- Ladas, E.J. (2018). Integrative medicine in childhood cancer. *The Journal of Alternative and Complementary Medicine*. 24, 9-10.
- Rosenbaum, M. & Velde, J. (2016). The effects of yoga, massage, and reiki on patient well-being at a cancer resource center. Clinical Journal of Oncology Nursing, 20, E77-E81.
- Stomski, N.J., Petterson, A., Kristjanson, L., Lobb, E.A., Phillips, M., Williams, A., Morrison, P., Joske, D. (2018). The effect of self-selected complementary therapies on cancer patients' quality of life and symptom distress: A prospective cohort study in an integrative oncology setting. *Complementary Therapies in Medicine*, 37, 1-5.
- U.S. Department of Health and Human Services, National Institutes of Health, U.S. National Library of Medicine(2018). *Collection Development Manual: Complementary and Alternative Medicine*. Retrieved from https://www.nlm.nih.gov/tsd/acquisitions/cdm/subjects24.html



ACKNOWLEDGEMENTS

Thank you to Lisa Morrissey, Caroline Costello, Mary Poyner Reed and our generous donors for continued support of the Heme/Onc/HSCT Integrative Therapies program. You all make the work we do with patients and families possible!



THANK YOU!



