Background

Population of focus: Pediatric patients (inpatient and outpatient)

Epidemiology:
Approximately 20% to 40% of healthy children seen in outpatient pediatric clinics and more than 50% of children with chronic, recurrent, and incurable conditions use CAM, almost always in conjunction with mainstream care (Kemper).

Social determinants & Health Care Access Factors:
- Many CAM modalities are not covered by insurance companies.
- Success of insurance coverage for music therapy has been reported on a case-by-case basis.
- Language, cost, insurance coverage, transportation, knowledge of existing services.

Advocacy: The current focus of advocacy groups is to increase the availability of these services and ultimately improve the scope of care that is offered to patients.

Key advocacy groups:
- National Center for Complementary and Alternative Medicine (NCCAM)
- American Holistic Medical Association

Service-Learning Project Goals:
1. Gain a better understanding of and experience different CAM modalities which will be offered to patients.
2. Provide an online resource about these modalities and how to access them.

Progress: We are compiling information and resources on various complementary and alternative medicine modalities which will be incorporated into the UMass library website.

Modalities Used in Children

Animal-Assisted Therapy:
- The American Veterinary Medical Association (AVMA) (2012) estimates that 69.9 million U.S. households own a pet dog, and 74.4 million own a pet cat.
- Animal-facilitated therapy (AFT) affects the way a patient experiences symptoms.
- Therapy animals are usually not owned by the clients or responsible for their well-being, and are brought to the pet therapy session by the owner, who is called the “handler” in these sessions.
- Benefits include an increase in social interactions and attention, improvement in mood, and extended life expectancy (Beets, Uvnas-Moberg, Julius, & Kotschadal, 2012; O’Haire, 2010).

Music Therapy:
- Music therapy is the clinical and evidence-based use of music to accomplish individualized, functional, non-musical goals within a therapeutic relationship by a board-certified music therapist (MT-BC) who has completed an approved music therapy program. Music therapy is clinically used as an intervention to minimize trauma and normalize hospitalization.

NeuroRhythm Music Therapy Services, LLC.
- Active music engagement (AME) participants had a significantly higher frequency of coping-related behaviors (as defined by Active Engagement, or Positive Facial Affect) compared with music listening or audio storybooks (Robb et al., 2008).
- Active engagement is essential if children are to learn positive coping strategies that will help buffer the impact of stress related to hospitalization (Gisik, et al. 1994).

Conclusions

Mindfulness meditation: A practice of being fully present in each moment with non-judgmental acceptance.
- Mindfulness has been shown to be beneficial in school settings in terms of improved cognitive and emotional control, decreased depression and aggression, and more.
- Mindfulness among adolescents has been shown to reduce the experience and intensity of chronic pain.
- Mindfulness has been used to decrease stress, minimize trauma, and help manage mental health exacerbations in youth in foster care.

Meditation has been shown to change brain structures associated with attentional and emotional regulation (Kong, et al. 2013).

Lessons Learned:
- CAM can be a vital medium through which patients can regain a sense of self-control and happiness while going through a difficult time.
- The quality of the CAM instructor can make a huge impact on a patient’s experience.
- Physicians need to be informed about the various CAM modalities so that they can best serve their patients’ physical, mental and emotional needs.
- Although not fully understood, CAM modalities can be useful resources for patients.

Recommendations for Next Steps:
- Our online resource component is continually evolving: Additional resources and modalities can be added/updated on an ongoing basis.
- More integrative medicine and complementary care sites in the Worcester area to be explored.

References: