Veterans Yoga Project
Subjective Pain and Distress Analysis
2018 (June – December)

Veterans Yoga Project (VYP) provides Mindful Resilience Yoga (MRY) classes to veterans in multiple settings. The program is adapted to the safety, predictability, and comfort needs of the veterans, including the use of adaptive and chair yoga. The yoga program is staffed by a teacher trained by Veterans Yoga Project. This analysis includes seven programs at US Department of Veterans Affairs locations and a Veterans Centers that focus on mental health, PTSD, serious mental illness, and general outpatient needs. Classes were offered across four facilities and taught by seven teachers.

Program Impact

VYP has completed an evaluation of effectiveness of the program during 156 yoga classes for the second half of 2018. Programs included:
- Charlotte VA Health Care Center PTSD Program, North Carolina
- Everette Veterans Center, Washington
- Kernersville VA Health Care Center PTSD Program, North Carolina
- Northport VA Mental Health Clinic, New York
- Northport VA Psychosocial Rehabilitation and Recovery Center, New York
- Northport VA Substance Abuse Recovery and Rehabilitation Program, New York

Veterans provided subjective ratings of their pain and stress before and after each yoga class. These consisted of pre and post self-assessments of current pain using a numeric rating scale and stress using the Subjective Units of Distress Scale (SUDS). Both pain and stress were assessed on a scale of 0 through 10 in which zero is no pain or stress and 10 is extreme pain or stress. These scales enable the class participants, the instructor, and the clinical staff to note changes associated with each class.

Over this period, pain assessments both before and after each class were reported for a total of 567 encounters. With regards to pain, 70% of all encounters were associated with a reduction in pain and the average pain reduction for all encounters was 36.3% (Note: these included participants with starting pain of zero). Further, 48% of participants experienced at least a 2-point improvement in pain, a common threshold for meaningful pain improvement in clinical settings. When pain score analysis was limited to only those encounters with pain scores of five (5) or greater at the beginning of class, 88% of encounters were associated with a reduction in
pain with an average pain reduction of 35.4%. Of those, 67.6% experienced at least a 2-point improvement in pain.

Over this period stress assessments both before and after each class were reported for a total of 568 encounters. With regards to stress, 85% of all encounters were associated with a reduction in stress. The average stress reduction for all encounters was 45.3%. When stress score analysis was limited to only those encounters with stress scores of five (5) or greater at the beginning of class, 94% of encounters were associated with a reduction in stress with an average stress reduction of 41.5%.

Any increases in pain or distress may represent a variety of experiences, such as granting oneself permission in the safe space of yoga class to experience one’s current mental and physical state, whether positive or negative, and decrease the use of physical and mental avoidance strategies. Increases in these cases are increases in self-awareness and not always an increase in underlying conditions. Instructors use individual and class data to support attendees in their wellness goals and to avoid exacerbation of pain and distress. Actions may include offering more practice modifications, changing a class structure, offering education and adaptive attitudes for yoga practice, and notifying medical staff of participants’ experience for additional care outside of class. Our instructors take participants’ feedback seriously and work with them and host organizations to support recovery and resilience.

Class participants provided 94 written and verbal statements to instructors about the classes, including:

- “Great”
- “Excellent”
- “Relieves tension”
- “Relaxes my body and mind”
- “It helped a lot to relax my body and mind”
- “I look forward to this class every week”
- “Energetic relaxed”
- “Amazing session”

Respectfully Submitted,

Timothy Avery, Psy.D.
Director of Program Evaluation
Veterans Yoga Project
Pain Change by Score Improvement (All)

Change in Pain for Total Encounters
- Decrease 70%
- No Change 26%
- Increase 4%

Change in Pain for Starting Pain 5 or Higher
- Decrease 88%
- No Change 11%
- Increase 1%

Improvement in Pain for Starting Pain 5 or Higher
Distress Change by Score Improvement (All)

Change in Distress for Total Encounters
- Decrease: 85%
- No Change: 14%
- Increase: 1%

Change in Distress for Starting SUDS 5 or Higher
- Decrease: 94%
- No Change: 6%
- Increase: 0%

Improvement in Distress for Starting SUDS 5 or Higher
- Count of Encounters
- Distress Decrease (Subjective Units of Distress)