Abstract No. 486

Customized Transdermal Pain Cream Reduced Pain and Improved Quality of Life

One of the largest contributing factors to the U.S. healthcare burden is the growing epidemic of chronic pain, which affects almost 1 out of 3 people and outnumbers all disease states combined. More than 100 million Americans are afflicted with chronic pain and nearly half of those with moderate to severe pain are inadequately treated. The use of opiates in the American society to treat pain has skyrocketed, however this has not been met with a commensurate increase in the ability to adequately treat pain. It is now becoming apparent that chronic use of opiates has led to an increased inability to reach successful patient outcomes. Therefore, the efficacy of customized non-opioid based transdermal pain creams was examined in individuals with a variety of chronic pain. Using an IRB approved outcomes survey, individuals were asked to rate their pain, using MD Anderson’s Brief Pain Inventory (BPI) and non-BPI metrics, and the level that pain has interfered with their physical and emotional wellbeing before or after 1 and 4 weeks of using their customized transdermal pain creams. The outcomes study results show that in a population of 3587 chronic pain sufferers, pain decreased from 4.9 before the treatment to 3.9 after 4 weeks with concomitant improvement of both physical and emotional Quality of Life metrics of 17 and 23% after 4 weeks of treatment. Of this population, 38% indicated that their use of oral pain medication had decreased and 71% indicated that their pain had improved with the most recent 24hr pain reduction of 58%. These results show that customized non-opiate transdermal pain cream can significantly reduce pain and the use of oral pain medication in a population of chronic pain.

Co-authors:
T. Unlap¹, D. Juge², R. Gussenhoven³.
¹Research, Patient Outcomes Analytics, Birmingham, USA.
²Outcomes Research, DeTOURE LLC, Rome, USA.
³R&D, DermaTran Health Solutions, Rome, USA.

* Negative nontherapeutic effects of creams which included skin irritations, drowsiness, dizziness, head ache, nausea, fatigue and constipation
** Negative nontherapeutic effects of creams which would require hospitalization