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A multi-institutional, randomized, double-blinded, placebo-controlled trial of additive Duloxetine for cancerrelated neuropathic pain refractory to opioids and gabapentinoids: JORTC PAL-08 (DIRECT study)

Hiromichi Matsuoka^{1,2} ¹University of Technology Sydney, Australia ²Kindai University, Japan

Introduction & Aim: Management of cancer-related neuropathic pain refractory to opioids remains challenging. We have investigated the additional efficacy of duloxetine for cancer-related neuropathic pain refractory to opioids and gabapentinoids.

Method: A multicenter, randomized, double-blind, placebo-controlled trial. Patients with any cancer-related neuropathic pain, currently taking opioids, non-responsive or intolerant to gabapentinoids were eligible. Diagnosis of neuropathic pain was based on the International Association for the Study of Pain (IASP) algorithm. Patients with chemotherapy-induced peripheral neuropathies were excluded. Patients were administrated 20 mg to 40 mg of duloxetine or placebo for 10 days. The primary endpoint was the average pain intensity (Brief Pain Inventory (BPI) item 5 at day 10 (BPI d10).

Result: 70 patients were enrolled at 12 sites. BPI on day 0 (before treatment) were 5.6 in group D (duloxetine) and 5.7 in group P (placebo). BPId 10 was: (1) Average of group D 4.03 [90% CI 3.33, 4.74], group P 4.88 [4.37, 5.38] (P=.053) (Complete Case: CC analysis) and (2) Group D 4.06 [3.37, 4.74], group P 4.91 [4.41, 5.41] (P=0.048) (Baseline Observation Carried Forward: BOCF analysis). Point estimate of the difference of average values between the two groups was -0.84 [-1.71, 0.02] (CC analysis) and -0.85 [-1.69, -0.01] (BOCF analysis). Compared to day 0, the improvement rate of 30% or more and 50% or more at day 10, were 44.1% in group D, 18.2% in group P (P=0.022) and 32.4% in group D, 3.0% in group P (P=0.002), respectively. Although there was one case of discontinuation of adverse events in Grade 3 (CTCAE version 4, JCOG), it was due to deterioration of the primary disease and there was no relation with protocol treatment.

Conclusion: Duloxetine is clinically effective for cancer-related neuropathic pain.

Biography

Hiromichi Matsuoka has expertise in evaluation and passion in improving the health and well-being. He is currently working as a Visiting Professor in University of Technology Sydney and preceding his research in patients with cancer pain. He has built his backgrounds as an Anesthesiologist, Physician of Psychosomatic Medicine and Palliative Care Doctors after years of experience in research, evaluation and teaching both in hospitals and educational institutions.

matsuoka_h@med.kindai.ac.jp

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