Experience of Monitoring Subcutaneous Biological Treatment (Adalimumab) by Nurses in Chronic Inflammatory Diseases

Monitorización por enfermería de la administración de tratamientos biológicos subcutáneos (adalimumab) en enfermedades inflamatorias crónicas

Dear Editor:

Diseases such as rheumatoid arthritis (RA) and psoriatic arthritis (Apso) are chronic processes that require an early diagnosis, monitoring and active treatment. The EPISER study showed that rheumatic diseases have an extraordinary frequency in the Spanish population and considerable social impact due to disability. Biologic drugs block are diverse molecules and include tumor necrosis factor alpha blockers (infliximab/Remicade®, adalimumab/Humira®, etanercept/Enbrel®); others such as (rituximab/Mabthera®), a monoclonal antibody cytotoxic to B lymphocytes, with anti-CD20 activity; inhibitors of co-stimulation (abatacept/Orencia®); and interlekin-6 inhibitors (tocilizumab/Roactemra®). The administration of these therapies requires nursing personnel with experience to monitor their administration, and perform education tasks, care and the control of the appearance of adverse events.

Coinciding with the installment in our center of a polyvalent day and the change of device (pen or syringe) of a new prescription of adalimumab, the double objective of our study was to: (a) know the opinion of patients treated with subcutaneous biologics with respect to the education given by the nurses staff, and (b) evaluate their preferences after using the two devices, 13/16 (81.25%) of patients (13/16) self-administered the medication and in 18.75% (3/16) someone else did (family or nurse). 50% of patients (8/16) received nursing education prior to treatment, positively evaluating it when answering the following questions: (a) global evaluation of attention and education received: 100% considered it “very good” on a scale (does not know: 0, very deficient: 1, deficient: 2, normal: 3, good: 4 and very good: 5); (b) evaluation of the time employed by the nurses visit: 100% considered it “very satisfactory” on a scale (does not know: 0, very scarce: 1, scarce: 2, regular: 3, satisfactory: 4 and very satisfactory: 5), and (c) in the usefulness of the education received: 5/8 (62.5%) considered it “very good” and 3/8 (37.5%) “good” on a scale (does not know: 0, very inadequate: 1, inadequate: 2, normal: 3, good: 4 and very good: 5). Of those, 7/8 (87.5%) would have liked to have received it and 1/8 (12.5%) did not know. Through the home questionnaires data were collected that allowed the evaluation of the two devices in 13/16 patients. One could not evaluate the pen due to infection and 2 gave no final information. The main variables under evaluation were: post-injection pain at 0 and 15 min, difficulty managing the device, global evaluation and preference for one device over the other.

The grouped mean of baseline pain of the syringe with respect to the pen during administration in 13/16 patients was 2.15 and 2.0 (P=4) (scale 1–4) (chi squared test); with respect to pain 15 min after the injection there was a significant difference between both devices, 1.85 and 1.46 (P=.035) (scale 1–4). Comparing the difficulty in managing both devices, the syringe proved to be more complex (2.08) than the pen (1.46), with a significance level of P=.03. There were no significant differences regarding the global evaluation between both mechanisms (P=.55). The results with respect to the preferred device were: syringe 1/13 (8%), pen 7/13 (54%) and regardless 5/13 (38%).

After comparing both devices, patients with RA and Apso treated in our center considered the pen more manageable than the syringe, they have less pain at 15 min post-injection with the pen and a high percentage of them would use the pen. The care of the patient with chronic inflammatory diseases must be approached from a teamwork perspective, including the physician, nurses and physical therapist, etc., always with the end of offering a global evaluation.

References


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