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Collagen peptide enteral formula might shorten healing days in older adult hospitalized patients with pressure ulcer

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Aim: To examine an effect of novel enteral formula with collagen peptide (CP) on outcome in patients with pressure ulcer (PU).

Methods: All consecutive patients with PU treated in a single institute, between January 2013 and September 2015, were enrolled. The present study was conducted in a retrospective chart-review fashion. To examine an impact of CP formula on outcome in PU patients, the following data were collected: Demographics: Sex, age and actual body weight measured on admission. Nutritional supports: Actual energy and protein intake between treatment days which was defined as days between start (T1) and healing (T2) of individual PU, then cumulative energy and protein deficit were calculated, where deficit was defined that actual minus target values during treatment days. PU severity: DESIGN-R scoring, higher score means severity. Outcome indicators: Treatment days, difference of DESIGN-R score between T1 and T2. Then after subjects were divided into two groups with and without CP, collected data were compared.

Results: To focus on quick improvement for PU to save medical budget, subject was limited them with 14 days to examine direct CP impact. As the results, 36 subjects were enrolled out of 75. Compared all data between two groups, iPU was more severe and longer period were required to heal significantly in CP group ($p=0.002$, <0.001 , respectively).

Conclusion: The present study could not draw definitive conclusion to prove effectiveness of CP formulae to treat PU. However, CP might treat to heal relatively severe PU within 14 days.

Biography

Masako Itoh has completed her Bachelor of Home Economics at Showa Women's University and she is currently working as a Director of Department of Nutrition, Kikai Tokushukai Hospital, Japan.

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