

分子生物学的根拠に基づく褥瘡ケア評価基準の開発

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2006 Fiscal Year Final Research Report Summary

Development of standard care evaluation of pressure ulcers by the molecular biological approach

Research Project

Project/Area Number

17592200

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Fundamental nursing

Research Institution

Kanazawa University

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2005 – 2006

Keywords

nursing / clinical / Pressure ulcers / molecular biology

Research Abstract

The purpose of this study was investigated the change in cytokines in refractory pressure ulcers and relationship between its changing and wound healing process. We investigated cytokines in pressure ulcers and wound change patterns in order to clarify cytokine behaviour at each status. After three days and seven days changing care measurements were performed of the levels in retained exudate of the cytokines; interleukin 1 α and 1 β (IL-1 α , 1 β), basic fibroblast growth factor (bFGF), platelet-derived

growth factor-AB (PDGF-AB), interleukin-4 (IL-4), transforming growth factor- β 1 (TGF- β 1) and vascular endothelial growth factor (VEGF). Wounds were observed weekly. All subjects had consented to participate in the study. Cytokines were increased at each wound change: for undermining adhesion, it was six out of seven (elevation in VEGF at seven three days); for increased granulation, eight out of eight (bFGF at after three days); and for epithelialization also eight out of ten (bFGF at after three days). Standard care evaluation of pressure ulcers was developed from these results. The results of our standard care evaluation were as follow: positive predictive value of bFGF 70.0% and positive predictive value of VEGF 66.7%. Therefore, it was suggested that our standard care evaluation of pressure ulcers was effective.

Research Products (4 results)

All 2005

All Journal Article

[Journal Article] 高齢者における褥瘡のポケット洗浄液温度の検討

2005 ▾

[Journal Article] 2症例におけるポケットの有無によるサイトカインの比較

2005 ▾

[Journal Article] Analysis of the temperature of the irrigation solution for elderly patients with pressure ulcers with undermining

2005 ▾

[Journal Article] Two case studies ; Whether pressure ulcer with undermining or without undermining were compared by cytokines

2005 ▾

URL: https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-17592200/175922002006kenkyu_seika_hokoku

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