

経皮吸収型硝酸剤のコンプライアンスに影響を及ぼす因子の検討

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Study of the factors that influence compliance with nitrate patch preparations

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Abstract

【Objective】 The purpose of this study was to investigate compliance with the use of nitrate patch preparations and the factors contributing poor compliance.

【Design and Methods】 Compliance with medication was investigated by questionnaire in 133 patients with ischemic heart disease. Five items (ease of application, feeling on use, skin irritation, adhesiveness and pain upon removal) related to nitrate patch preparations were scored from 1 to 5. We performed multiple logistic regression analysis to investigate the factors related non-compliance, using the poor-compliance as the criterion variable and the nitrate patch preparation as the other variables because these factors showed significance ($P < 0.1$) on univariate analysis.

【Results】 According to the results of the questionnaire survey, the poor compliance group accounted for 47% of all patients. Factors that affected compliance according to logistic regression analysis were a history of heart surgery (odds ratio (OR)=0.45; 95% confidence interval (CI)=0.22 to 0.94; $p=0.032$) and skin irritation (OR=0.69; 95% CI=0.50 to 0.95; $p=0.024$). The patients with no surgical history or intense itching of the skin were prone to poor compliance.

【Conclusion】 This study clarified the factors (history of heart surgery, skin irritation) that affect compliance with the use of nitrate patch preparations and the findings may contribute to enhancing the continuation of treatment with such preparations.

Key words: compliance; nitrate patch preparations; logistic regression analysis; cross-sectional study; questionnaire survey