

# RISK FACTORS OF CONTACT DERMATITIS CAUSED BY TRANSPARENT DRESSING AFTER PICC CATHETERIZATION

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## Purpose

- ◆ **To analyze the incidence and risk factors of contact dermatitis caused by transparent dressing after peripherally inserted central catheters (PICC) catheterization in West China Hospital, Sichuan University , China.**

# Background

1

- **PICC have provided painless intravenous infusion channel, especially suitable for patients who need chemotherapy.**

2

- **some patients suffered from contact dermatitis caused by transparent dressing at the catheter insertion area because of patients' congenital allergic constitution, allergy to transparent dressing materials, unstable internal environment after radiotherapy and chemotherapy.**

3

- **If it was not properly handled, the light cases could lead to catheter puncture site infection, severe cases lead to catheter-related blood stream infection might even threaten the patient's life.**

## Methods

- The risk factors which might influence on contact dermatitis had been analyzed by univariate and multivariate logistic regression analysis on gender, age, body mass index, cTNM stage, history of drug allergy, tumor type, eosinophils, basophils.**

# Findings

1

- **Of the 972 patients with malignant tumor who had been implanted with PICC catheters, and 80 cases of them had suffered from contact dermatitis, and the incidence was 8.23%.**

2

- **Univariate analysis showed that eosinophil count (increase), insomnia, obesity, drug allergy history were associated with contact dermatitis ( $P < 0.05$ ).**

3

- **Multivariate logistic regression analysis showed that insomnia, obesity, and drug allergy were independent risk factors for it ( $P < 0.001$ ).**

## Discussion

1

- **The incidence of contact dermatitis was higher (8.23%).**

2

- **In the nursing work, we should strengthen the knowledge training of patients after PICC implantation, and to strengthen the observation of high risk patients with insomnia, obesity and allergic history, and the observation of local skin at puncture point, once found abnormal, should be treated immediately.**

## **Nursing significance**

- ◆ **To provide a theoretical basis for the formulation of nursing intervention measures for contact dermatitis caused by transparent dressings.**



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Thank you

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