

丁香挥发油对磷酸川芎嗪贴剂的经皮促渗作用

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中文摘要:目的: 考察不同质量分数的丁香挥发油对磷酸川芎嗪贴剂的经皮促渗作用。方法: 用改良Franz扩散池法, 以氮酮为阳性对照, 不含促渗剂的磷酸川芎嗪贴剂为阴性对照, 考察含3%, 5%, 7%, 10%的丁香挥发油对模型药磷酸川芎嗪经小鼠皮肤的促渗效果, 采用HPLC测定磷酸川芎嗪的含量。结果: 4种质量分数的丁香油对磷酸川芎嗪12 h平均累积渗透量(\bar{Q}_{12})分别为3.030, 4.066, 1.845, 1.205 mg · cm⁻²; 其12 h时增渗倍数分别为1.54, 2.06, 0.96, 0.62。与阴性对照组的 \bar{Q}_{12} 比较, 5%丁香油与3%丁香油促渗作用显著。结论: 3%, 5%的丁香油能明显提高磷酸川芎嗪在贴剂中的渗透量, 且促渗效果好。

中文关键词: [丁香挥发油](#) [磷酸川芎嗪贴剂](#) [经皮渗透](#)

Percutaneous Enhancement Function of Volatile Oil from *Eugenia caryophyllata* on Ligustrazine Phosphate Patch

Abstract: Objective: To investigate percutaneous penetration effect of different concentration of volatile oil from *Eugenia caryophyllata* on ligustrazine phosphate (LP). Method: Modified Franz diffusion cell method was used, with azone as positive control, LP without penetration enhancers as negative control, penetration effect of 3%, 5%, 7% and 10% volatile oil from *E. caryophyllata* on LP through mouse skin were investigated, the content of LP was determined by HPLC. Result: Average cumulative permeation volume (\bar{Q}_{12}) of the 4 concentrations of volatile oil from *E.*

caryophyllata on LP in 12 h were 3.030, 4.066, 1.845 and 1.205 mg · cm⁻², respectively; and enhancing rates (ER) in 12 h were 1.54, 2.06, 0.96 and 0.62, respectively. Compared with \bar{Q}_{12} of negative control group, 5% and 3% volatile oil from *E. caryophyllata* had significantly enhancing effect.

Conclusion: 3% and 5% volatile oil from *E. caryophyllata* could enhance permeation volume of LP through mouse skin obviously, and had great enhancing effect.

keywords: [volatile oil from *Eugenia caryophyllata*](#) [ligustrazine phosphate patch](#) [percutaneous penetration](#)

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