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Analysis of the total polyphenol and antioxidative effect in processed *Polygonum multiflorum*

○廖 金隆<sup>1</sup>, 蔡 博崴<sup>1</sup>, 王 靜瓊<sup>1</sup> (<sup>1</sup>Graduate Institute of Pharmacognosy, Taipei Medical University)

[Objective] Processed radix of *Polygonum multiflorum* (PM) is widely used as a tonic agent. However, the processed method of PM were not verified and standardized. The research objective would establish a new processed method of PM, which can be applied by industry as well as be backed up with scientific data.

[Method] Orthogonal experiment was used to determine the major factor of processed method. The tested factor were soaking liquid, duration, temperature, and steaming duration. The suitable processed method of PM depends on anti-oxidative effect and content of total polyphenol.

[Results] The steaming duration was major factor in processed PM, and 3 hour is the most optimal according the examination of anti-oxidative effect and content of total polyphenol. The dried-material soaked with water in 60°C for 3 hour, then steam in 100 °C for 3 hours will have the best capability of radicals scavenging ability and highest content of total polyphenol

[Conclusion] The established processed method of PM was to reduce laxative polyphenol such as anthraquinone et.al. On the other hand, 2,3,5,4'-tetrahydroxystilbene-2-O-β-D-glucopyranoside is in *Polygonum multiflorum* after processed. The aim of processed Chinese medicines is to detoxification.