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Effect of *Taraxacum mongolieum* Hand-Mass Aqua-Acupuncture Solution on Phase II and Phase I Enzymes

Yun-Hee Shon and Kyung-Soo Nam

College of Medicine and Intractable Disease Research Center,
Dongguk University, Kyongju 780-714

Taraxacum mongolieum Hand-Mass aqua-acupuncture solution (TMAS) and *Taraxacum mongolieum* Hand-Mass water-extracted solution (TMWS) were prepared and investigated for the induction of anticarcinogenic phase II enzyme (quinone reductase and glutathione S-transferase) and inhibition of phase I enzyme (cytochrome P4501A1) activities. TMAS was potent inducer of quinone reductase activity in Hepalcl7 murine hepatoma cells. Glutathione S-transferase activity was also increased with TMAS and TMWS. The activity of cytochrome P4501A1 enzyme was slightly inhibited with the treatment of TMAS. These results suggest that TMAS has chemopreventive potential by inducing quinone reductase and glutathione S-transferase activities and inhibiting cytochrome P4501A1 activity.