Evidence Reports of Kampo Treatment

Task Force for Evidence Reports / Clinical Practice Guideline Committee for EBM, the Japan Society for Oriental Medicine

2. Cancer (Condition after Cancer Surgery and Unspecified Adverse Drug Reactions of Anti-cancer Drugs)

Reference

Yamamoto T, Fujita H, Okada H, et al. Clinical evaluation of the effects of ninjin'yoeito on subjective and objective symptoms and bone-marrow function during chemotherapy or radiotherapy in female patients with genital cancer. *Oncology & Chemotherapy* 1994; 10: 126–34.

1. Objectives

To evaluate the efficacy of ninjin'yoeito (人参養栄湯) against subjective and objective symptoms and myelosuppression due to postoperative chemotherapy or radiotherapy in female patients with genital cancer.

2. Design

Randomized controlled trial using sealed envelopes for allocation (RCT-envelope).

3. Setting

Department of Obstetrics and Gynecology, Kyoto Prefectural University of Medicine, and 8 related facilities, Japan.

4. Participants

Forty patients undergoing cancer chemotherapy or radiotherapy (excluding those with serious complications or Eastern Co-operative Oncology Group (ECOG) performance status (PS) 4 at entry, or those judged by the investigator to be ineligible).

5. Intervention

- Arm 1: chemotherapy + Kanebo (currently Kracie) Ninjin'yoeito (人参養栄湯) Extract Fine Granules 2.5 g t.i.d (n=11).
- Arm 2: chemotherapy + cepharanthine 2 tablets t.i.d. (n=12).
- Arm 3: radiotherapy + Kanebo (currently Kracie) Ninjin'yoeito (人参養栄湯) Extract Fine Granules 2.5 g t.i.d (n=10).
- Arm 4: radiotherapy + cepharanthine 2 tablets t.i.d. (n=7).

Duration of administration: at least 2 weeks (more than 4 weeks if possible)

6. Main outcome measures

Four performance status items evaluated on a 5-point scale, nausea/vomiting evaluated on a 4-point scale, hematology (blood counts, biochemistry), and urinalysis (protein, glucose, and urobilinogen).

7. Main results

Kampo medicine treatment significantly improved myelosuppressive symptoms but not subjective and objective symptoms associated with anticancer drug administration. It also improved anorexia and fatigue/malaise during radiotherapy.

8. Conclusions

Ninjin'yoeito is effective for reducing myelosuppression associated with anticancer drug administration and radiotherapy.

9. From Kampo medicine perspective

None.

10. Safety assessment in the article

One patient had acute hepatitis with unknown causal relationship to ninjin'y oeito.

11. Abstractor's comments

This study investigated the possible efficacy of ninjin'yoeito for relieving myelosuppression caused by anticancer drugs. Ninjin'yoeito improved anticancer drug-caused myelosuppression but not severe anorexia, consistent with other papers. A future report on its efficacy in patients treated with three or more cycles of chemotherapy is also awaited.

12. Abstractor and date

Nakata H, 1 January 2009 1 June 2010.