

**International Workshop
Summaries of Lectures
Presented at the 2004 General Meeting
of the BioBran Study Conference**

Regulation of the Defense Mechanism with Food

- Relationship between Tumor Dormant Therapy and Food Function -

Date: March 14, 2004 (Sunday)

Place: Kokuyo Hall



Effectiveness of Integrated Medicine in the Treatment of Stage IV Advanced Cancer

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We practice diverse “integrated medicine” combining holistic complementary and alternative medicine and regimens with various functional foods in addition to the standard treatment for patients with recurrence or metastasis of cancer following standard treatment and patients that are difficult to treat with conventional Western medicine. I would like to report the results of immunopotentiating therapy with rice bran arabinoxylan (BioBran), which has immunopotentiating activity, for patients with advanced cancer. Twenty patients with a range of stage IV cancers received various regimens and immunopotentiating therapy including herbal remedies and BioBran in parallel with the standard treatment. Changes in the activity of NK cells and tumor markers were measured over time. Of 20 patients, 17 (85%) showed increased NK cell activity and 11 (55%) had a decrease in tumor markers. Immunopotentiating therapy with BioBran for advanced cancer is one of the excellent complementary and alternative therapies available and is capable of maintaining quality of life (QOL) as well as showing immunopotentiating activity. It can be regarded as one form of “tumor dormancy therapy.”

[Purpose] We have applied diverse “integrated medicine” combining holistic “complementary and alternative medicine” and various “regimens” with a range of functional foods in addition to the standard treatment for patients with recurrence or metastasis of cancer following standard treatment and patients judged difficult to treat with conventional Western medicine. Combining immunopotentiating therapy with chemotherapy, which lowers immunity as well as having positive anticancer effects, enabled us to reduce the incidence and severity of adverse reactions. We report the results of immunopotentiating therapy with rice bran arabinoxylan (BioBran), which has immunopotentiating activity, for patients with stage IV advanced cancer.

[Methods] Twenty patients with several types of stage IV advanced cancers received immunopotentiating therapy combining herbal remedies, drip infusion of large doses of vitamin C, etc. with BioBran and food, physical, and mental therapies in parallel with standard treatment. Changes in the NK cell activity (NK activity) and tumor markers were used as indicators of immunopotentiating and were measured over time (for 6 to 27 months).

[Results and Case Report] Of 20 patients, 17 (85%) had an increase in NK activity and 11 (55%) had a decrease in tumor markers. Recurrent breast cancer patients with bone metastases (lumbar spine, pelvis, and ribs) who received anticancer agents and BioBran 3 g/day showed an increase in NK activity after a month and a rapid decrease in tumor markers after two months. Subjective symptoms including pain due to bone metastases resolved after seven months. NK activity remains stable, tumor markers are normal, and QOL is good (after 24 months).

[Conclusion] Immunopotentiating therapy with BioBran for intractable advanced cancer is an excellent complementary and alternative therapy that contributes significantly to maintaining QOL as well as showing immunopotentiating activity. Because the patient is able to continue to “coexist” with their cancer, the therapy is considered to be a form of “tumor dormancy therapy.”