

Division of Clinical and Experimental Oncology Department of Surgical Oncology

Professor	Tetsuya TOGE, M.D., Ph.D.
Associate Professor	Toshihiro HIRAI, M.D., Ph.D.
Lecturer	Yoshiyuki YAMAGUCHI, M.D., Ph.D.
Lecturer	Kazuhiro YOSHIDA, M.D., Ph.D.* ¹
Lecturer	Akihiko OSAKI, M.D., Ph.D.* ¹
Research Associate	Eiji MIYAHARA, M.D., Ph.D.
Research Associate	Jun HIHARA, M.D., Ph.D.
Research Associate	Hideki INOUE, M.D., Ph.D.* ¹
Senior Research Assistant	Kazuhito MINAMI, M.D., Ph.D.* ¹
Senior Research Assistant	Kouji OHTA, M.D.
Senior Research Assistant	Katsuhiko SHIMIZU, M.D.
Senior Research Assistant	Jyunnya TAOMOTO, M.D.
Junior Research Assistant	Ryoichi TOYOSAKI, M.D.(Apr.1, 2002~)
Junior Research Assistant	Takaoki FURUKAWA, M.D.(Apr.1, 2002~)
Junior Research Assistant	Shuya YANO, M.D.(Apr.1, 2002~)
Postgraduate Student	Kazuaki TANABE, M.D.
Postgraduate Student	Hideaki UENO, M.D.
Postgraduate Student	Yoko UCHIDA, M.D.
Postgraduate Student	Yoshiharu KAWABUCHI, M.D.
Postgraduate Student	Daisuke FUJII, M.D.
Postgraduate Student	Manabu EMI, M.D.
Postgraduate Student	Akiko Ohshita, M.D.
Postgraduate Student	Yoich HAMAI, M.D.
Research Fellow	Takashi AMANO, M.D.
Research Fellow	Kazuo KONISHI, M.D.
Research Fellow	Kazuo MATSUURA, M.D.
Research Fellow	Tomohito YAMAGUCHI, M.D.
Research Fellow	Hirozumi MIZUIRI, M.D.
Research Fellow	Takahisa SUZUKI, M.D.
Research Fellow	Riki OKITA, M.D.

(at March 31st.2003)

*¹ Department of Surgery, Hiroshima University Hospital

The research activities have been focused on the experimental and clinical studies on the multidisciplinary treatment of cancer. The research subjects for the present and following years are summarized as follows:

- 1 . New approaches for the surgical treatment of gastric cancer
- 2 . New approaches for the surgical treatment of esophageal cancer
- 3 . Detection of early breast cancer and new approaches for the treatment of breast cancer
- 4 . New approaches for the surgical treatment of colon cancer
- 5 . New approaches for the surgical treatment of liver cancer
- 6 . New approaches for the surgical treatment of lung cancer
- 7 . Immunotherapy of cancer
- 8 . Oncogene and gene therapy
- 9 . Cancer chemotherapy and its advances
10. Sensitivity tests of anticancer agents
11. Quality of life in cancer patients

Many interesting results have been indicated by the staffs and the number of published papers has been increasing year by year. Now, we are regarded as the leader of Chugoku District in the field of cancer treatment both in name and reality.

On Apr. 1st. 2002, Dr. Manabu EMI and Yoichi HAMAI, as postgraduate students, have returned to our department from Komagome Metropolitan Hospital and Shikoku Cancer Center Hospital, respectively. Dr. Junya TAOMOTO and Katsuji HIRONAKA and Dr. Jun HIHARA have returned to our department from Higashi Omiya Hospital, Hiroshima Mitsubishi Hospital and Cancer Center in University of California (Prof. David Tarin) on Apr. 1st., 2002. In June, 2002, 56th Annual Meeting of Japan Society of Esophageal Disease was held in Hiroshima under Professor Toge as the person in charge of the Meeting. Professor Toge and Dr. Kazuhiro YOSHIDA assumed honorary President and honorary advisor of the Honko Cancer Center Hospital in China, respectively.

Professor Toge and Dr. Kazuhiro YOSHIDA presented their papers at 18th Meeting of the International Cancer Society in Oslo. Dr. Kazuaki TANABE presented his paper at 93th Meeting of the American Association of Cancer Research (AACR) in San Francisco. Dr. Kazuhiro YOSHIDA presented his papers at 3rd International Symposium on Cancer Research and Therapy in Tokyo and International Perspectives on the Treatment of Gastric Cancer in Jeju Island, South Korea. Drs. Akihiko OSAKI and Hideaki UENO presented their papers at Sentinel Node 2002 in Yokohama. Drs. Yoshiyuki YAMAGICHI, Eiji MIYAHARA, Teruaki TANABE and Daisuke Fujii presented their papers at 12th Hiroshima Cancer Seminar International Symposium in Hiroshima.

Drs. Katsuhiko Shimizu, Kazuaki TANABE and Hideaki UENO were awarded the degree of Doctor for medical Science (Ph. D.). As postgraduate students, Drs. Yoshiharu KAWABUCHI, Daisuke FUJII and Yoko UCHIDA have continued their investigations. Manabu EMI and Akiko Ohshita started to investigate new postgraduate courses.

Kazuto JINUSHI (Mihara Ishikai Hospital), Takashi AMANO (Hamai Hospital), Kosuke NOMA (Motonaga Hospital), Kazuo KONISHI (Kanagawa Prefectural Cancer Center), Hirozumi MIZUIRI (Higashi Omiya Hospital), Riki OKITA (Hiroshima Asa City Hospital), Takahisa SUZUKI (Hiroshima Kyoritsu Hospital), Kazuo MATSUURA (Hiroshima City Hospital), Tomohito YAMAGUCHI (Kyushu National Cancer Center) have been studying in clinic at the affiliated hospital designated in the parentheses.

Table 1

Type of diseases outpatients	No. of new inpatients	No. of operations	No. of
Gastrointestinal Malignant			
esophagus	46	65	24
stomach	84	100	53
colorectum	15	38	22
biliary tract	5	25	4
pancreas	5	8	2
miscellaneous	0	2	5
Benign			
gastroduodenal	1	2	0
miscellaneous	50	21	4
total	206	261	114
Endocrine Brest			
malignant	378	92	89
benign		4	4
Thyroid			
malignant	4	5	1
benign		0	0
total	382	101	94
Respiratory Lung			
malignant	38	36	13
benig	0	5	5
total	38	41	18
Miscellaneous malignant			
benign	0	3	3
total	0	7	7
Total	626	410	233

1. Title of Research Project: Surgical oncotaxis. Investigators: Toshihiro HIRAI, Jun HIHARA, Hideki INOUE, Tetsuya TOGE
2. Title of Research Project: Adjuvant chemo-radiotherapy and QAS for esophageal cancer. Investigators: Toshihiro HIRAI, Jun HIHARA, Kazuhiro YOSHIDA, Tetsuya TOGE
3. Title of Research Project: Basic and clinical investigations of laparoscopic surgery of the stomach. Investigators: Toshihiro HIRAI, Jun HIHARA, Kazuhiro YOSHIDA, Tetsuya TOGE
4. Title of Research Project: Clinical use of fluospheres fluorescent microspheres for sentinel node navigation surgery in gastrointestinal tract. Investigators: Toshihiro HIRAI, Kazuhiro YOSHIDA, Jun HIHARA, Hideki INOUE, Hideaki UENO, Tetsuya TOGE
5. Title of Research Project: Truth telling and QOL of the patients.

Investigators: Toshihiro HIRAI, Tetsuya TOGE

6. Title of Research Project: Detection of colorectal cancer micrometastasis by using polymerase chain reaction and tracer gene-modified tumor cells.

Investigators: Yoshiyuki YAMAGUCHI, Yoshiyuki WADA, Jun HIHARA, Kazuhito MINAMI, Tetsuya TOGE

7. Title of Research Project: Immuno-Gene therapy of cancer.

Investigators: Yoshiyuki YAMAGUCHI, Eiji MIYAHARA, Kazuhito MINAMI, Akiko OHSHITA, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Tetsuya TOGE

8. Title of Research Project: Specific immunotherapy for cancer using autologous lymphocytes.

Investigators: Yoshiyuki YAMAGUCHI, Akiko OHSHITA, Kazuhito MINAMI, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Eiji MIYAHARA, Tetsuya TOGE

9. Title of Research Project: Host-oriented prediction of CTL epitope (HOPE) using peptide panels.

Investigators: Yoshiyuki YAMAGUCHI, Yoshiharu KAWABUCHI, Akiko OHSHITA, Kazuhito MINAMI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Eiji MIYAHARA, Tetsuya TOGE

10. Title of Research Project: Detection of CTL epitopes and generation of CTLs specific for VEGF-R and RCAS-1 tumor-associated proteins.

Investigators: Yoshiyuki YAMAGUCHI, Akiko OHSHITA, Yoshiharu KAWABUCHI, Kazuhito MINAMI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Eiji MIYAHARA, Tetsuya TOGE

11. Title of Research Project: Analysis of the T-cell receptor CDR3 sequences of anti-cancer T cells.

Investigators: Yoshiyuki YAMAGUCHI, Eiji MIYAHARA, Koji OHTA, Katsuhiko SHIMIZU, Akiko OHSHITA, Yoshiharu KAWABUCHI, Kazuhito MINAMI, Jun HIHARA, Tetsuya TOGE

12. Title of Research Project: Detection of tumor-antigen-specific T cell responses using autologous tumor RNA-introduced cultured dendritic cells in sentinel lymph nodes.

Investigators: Yoshiyuki YAMAGUCHI, Kazuo MATSUURA, Akihiko OSAKI, Akiko OHSHITA, Kazuhito MINAMI, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Eiji MIYAHARA, Tetsuya TOGE

13. Title of Research Project: New cancer therapy using allogeneic immune reaction.

Investigators: Yoshiyuki YAMAGUCHI, Kazuhito MINAMI, Eiji MIYAHARA, Akiko OHSHITA, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Tetsuya TOGE, Hideo HYODOU*, Akirou KIMURA* (*Dept. Hematology)

14. Title of Research Project: Involvement of Toll-like-receptors (TLRs) in non-specific immunotherapy for cancer.

Investigators: Yoshiyuki YAMAGUCHI, Katsuji HIRONAKA, Eiji MIYAHARA, Kazuhito MINAMI, Akiko OHSHITA, Yoshiharu KAWABUCHI, Kouji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Tetsuya TOGE

15. Title of Research Project: Analysis of immunosuppression in cancer patients and development of lymphoablative chemotherapy.

Investigators: Yoshiyuki YAMAGUCHI, Riki OKITA, Eiji MIYAHARA, Jun HIHARA, Kazuhito MINAMI, Koji

OHTA, Katsuhiko SHIMIZU, Yosiharu KAWABUCHI, Akiko OHSHITA, Tetsuya TOGE

16. Title of Research Project: Chemotherapy for advanced colorectal cancer. Investigators: Yoshiyuki YAMAGUCHI, Kazuhito MINAMI, Tetsuya TOGE
17. Title of Research Project: Gene-chemotherapy of the gastrointestinal cancer patients. Investigators: Ryungsa KIM, Kazuaki TANABE, Hideki INOUE, Tetsuya TOGE
18. Title of Research Project: Analysis of the mechanism of low dose FP therapy. Investigators: Ryuugsa KIM, Hideki INOUE, Tetsuya TOGE
19. Title of Research Project: Analysis of the molecular mechanism(s) of anticancer-induced apoptosis. Investigators: Ryungsa KIM, Kazuaki TANABE, Hideki INOUE, Tetsuya TOGE
20. Title of Research Project: Significance in induction of apoptosis in overcoming the resistance to cancer chemotherapy. Investigators: Ryungsa KIM, Hideki INOUE, Tetsuya TOGE
21. Title of Research Project: Significance in receptor-dependent signaling pathway in anticancer-induced apoptosis. Investigators: Ryungsa KIM, Kazuaki TANABE, Tetsuya TOGE
22. Title of Research Project: Studies on overcoming drug-resistance by down-regulating bcl-2 gene using antisense bcl-2 in breast cancer cells. Investigators: Ryungsa KIM, Kazuaki TANABE, Tetsuya TOGE
23. Title of Research Project: Studies on enhancing drug sensitivity by antisense HER-2 in HER-2 overexpressing breast cancer cells. Investigators: Ryungsa KIM, Kazuaki TANABE, Tetsuya TOGE
24. Title of Research Project: Studies on the basis of endocrine-chemotherapy in breast cancer cells. Investigators: Ryungsa KIM, Kazuaki TANABE, Tetsuya TOGE
25. Title of Research Project: Clinical significance of a new membrane drug-transporter gene, BCRP in breast cancer. Investigators: Ryungsa KIM, Yoko UCHIDA, Kazuaki TANABE, Tetsuya TOGE
26. Title of Research Project: An analysis of sentinel lymph node biopsy and micrometastasis in breast cancer. Investigators: Ryungsa KIM, Akihiko OSAKI, Tetsuya TOGE
27. Title of Research Project: Clinical significance of micrometastasis in bone marrow in breast cancer. Investigators: Ryungsa KIM, Akihiko OSAKI, Tetsuya TOGE
28. Title of Research Project: Studies on gene therapy by introducing bax gene into undifferentiated thyroid cancer. Investigators: Ryungsa KIM, Kazuaki TANABE, Toshihiro HIRAI, Tetsuya TOGE
29. Title of Research Project: Studies on enhancement of antitumor effect by antisense HER-2 in gastric cancer cells. Investigators: Ryungsa KIM, Kazuaki TANABE, Tetsuya TOGE

30. Title of Research Project: Alterations and abnormal expression of p53 and Cdk inhibitor genes in esophageal carcinomas. Investigators: Kazuhiro YOSHIDA, Jun HIHARA, Yoshinori YAMASHITA, Toshihiro HIRAI, Tetsuya TOGE
31. Title of Research Project: Non-invasive detection of colorectal and breast cancer.
Investigators: Kazuhiro YOSHIDA, Yoshiyuki YAMAGUCHI, Akihiko SAWAMURA, Akihiko OSAKI, Tetsuya TOGE
32. Title of Research Project: Genetic analysis of malignant and premalignant lesion of the esophagus and double cancer.
Investigators: Kazuhiro YOSHIDA, Jun HIHARA, Yoshinori YAMASHITA, Toshihiro HIRAI, Tetsuya TOGE.
33. Title of Research Project: Gene therapy using thymidine kinase gene. Investigators: Kazuhiro YOSHIDA, Daisuke Fujii, Tetsuya TOGE
34. Title of Research Project: Genetic analysis and its clinical application for gastric and breast cancer. Investigators: Kazuhiro YOSHIDA, Akihiko OSAKI, Tetsuya TOGE
35. Title of Research Project: Sentinel node navigation and minimally invasive surgery for gastric cancer. Investigators: Kazuhiro YOSHIDA, Hideaki UENO, Yoshihiro KAGAWA, Naoki NISHIMOTO, Akihiko OSAKI, Toshihiro HIRAI, Tetsuya TOGE
36. Title of Research Project: Analysis of chemo-resistance and its clinical application for gastric cancer. Investigators: Kazuhiro YOSHIDA, Naoki NISHIMOTO, Ryungsa KIM, Toshihiro HIRAI, Tetsuya TOGE
37. Title of Research Project: Molecular cloning of metastasis associated gene.
Investigators: Kazuhiro YOSHIDA, Tetsuya TOGE
38. Title of Research Project: Study on micrometastasis of gastric and esophageal cancer. Investigators: Kazuhiro YOSHIDA, Daisuke FUJII, Jyunn HIHARA, Toshihiro HIRAI, Tetsuya TOGE
39. Title of Research Project: Analysis of genetic instability and the telomerase activity on carcinogenesis of the esophagus. Investigators: Kazuhiro YOSHIDA, Daisuke FUJII, Akihiko OSAKI, Toshihiro HIRAI, Tetsuya TOGE
40. Title of Research Project: Gene therapy using Orotate phosphoribosyl transferase (OPRT) gene in gastrointestinal carcinomas.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Daisuke FUJII, Tetsuya TOGE.
41. Title of Research Project: Combination Phase I/II study of Docetaxel and TS-1 with advanced gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Daisuke FUJII, Hideaki UENO, Jyunn HIHARA, Toshihiro HIRAI, Tetsuya TOGE
42. Title of Research Project: Phase I/II study of weekly Taxsol as second line chemotherapy on gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Daisuke FUJII, Kouji OHTA, Hideki INOUE, Toshihiro HIRAI, Tetsuya TOGE

43. Title of Research Project: Phase III study of TS-1 vs TS-1+CDDP on advanced and recurrent gastric cancer patients.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Daisuke FUJII, Kazuhito MINAMI, Toshihiro HIRAI, Tetsuya TOGE
44. Title of Research Project: Phase III study of TS-1 vs I-LV+5Fu on advanced and recurrent gastric cancer patients.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Junn HIHARA, Toshihiro HIRAI, Tetsuya TOGE
45. Title of Research Project: Study on adjuvant chemotherapy with TS-1 on gastric carcinomas. Investigators: Kazuhiro YOSHIDA, Jun HIHARA, Hideki INOUE, Kouji OHTA, Toshihiro HIRAI, Tetsuya TOGE
46. Title of Research Project: Dose finding study of weekly paclitaxel for recurrent or advanced breast cancer patients.
Investigators: Akihiko OSAKI, Ryungsa KIM, Tetsuya TOGE
47. Title of Research Project: Dose finding study of weekly paclitaxel in combination with UFT for recurrent or advanced breast cancer patients. Investigators: Akihiko OSAKI, Ryungsa KIM, Tetsuya TOGE
48. Title of Research Project: Studies on breast cancer screening with screening mammography over 40 years old.
Investigators: Akihiko OSAKI, Ryungsa KIM, Toshihiro HIRAI, Tetsuya TOGE
49. Title of Research Project: Investigation of axillary lymphnode dissection based on the identification of the sentinel lymph node using toluidine blue and radioisotope for breast cancer. Investigators: Akihiko OSAKI, Hideaki Ueno, Ryungsa KIM, Toshihiro HIRAI, Tetsuya TOGE
50. Title of Research Project: Studies of clinical significance of micrometastasis in sentinel lymph node, peripheral blood and bone marrow in breast cancer patients. Investigators: Akihiko OSAKI, Hideaki Ueno, Ryungsa KIM, Toshihiro HIRAI, Tetsuya TOGE
51. Title of Research Project: Improvement of diagnosis of breast cancer by echo guided aspiration biopsy cytology.
Investigators: Akihiko OSAKI, Ryungsa KIM, Tetsuya TOGE
52. Title of Research Project: Postoperative adjuvant chemotherapy of carboplatin and weekly paclitaxel for non-small cell lung cancer proven as positive pathological mediastinal nodes. Investigators: Eiji MIYAHARA, Katsuhiko SHIMIZU, Toshihiro HIRAI, Tetsuya TOGE
53. Title of Research Project: Minimally invasive sentinel node navigation surgery on lung cancer with thoracoscopy.
Investigators: Eiji MIYAHARA, Katsuhiko SHIMIZU, Toshihiro HIRAI, Tetsuya TOGE
54. Title of Research Project: Immunological analysis and characterization of sentinel node in lung and breast cancer
Investigators: Eiji MIYAHARA, Yoshiyuki YAMAGUCHI, Akihiko OSAKI, Akiko OHSHITA, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Kazuhito MINAMI, Tetsuya TOGE
55. Title of Research Project: Cancer immuno-genetherapy with T cell receptor gene specific for cancer antigens
Investigators: Eiji MIYAHARA, Yoshiyuki YAMAGUCHI, Akiko OHSHITA, Yoshiharu KAWABUCHI, Koji OHTA, Katsuhiko SHIMIZU, Jun HIHARA, Kazuhito MINAMI, Tetsuya TOGE

A. ORIGINAL PAPER

1. Yoshida, K. The Japanese experience of combining S-1 and taxotere. *PeerView in focus*. PP16, 2002.
2. Toge, T., Yoshida, K.: Growth factors. Review 2002 for specialists of gastroenterological surgery 2002, *Souguo igaku-sha*, 17-25, 2002.
3. Toge, T., Yamaguchi, Y., Yoshida, K.: Relationship between surgery and immunology, and/or genes. *Surgery for nurses* 3rd ed., *Cyuuugai igaku-sya*, 52-59, 2002.
4. Yamaguchi, Y., Kawabuchi, Y., Toge, T.: Palliative cancer immunotherapy. Technical Term "Palliative Therapy", ed. Shimoyama, N., Mukaiyama, Y., Yamawaki, N., pp 180-181, *Sentan-Igaku-sha press*, Tokyo, 2002.
5. Tominaga, T.*., Toi, M.*², Abe, O.*³, Ohashi, Y.*⁴, Uchino, J.*⁵, Hayasaka, H.*⁶, Abe, R.*⁷, Izuo, M.*⁸, Enomoto, K.*⁹, Watanabe, H.*¹⁰, Yoshida, M.*¹¹, Taguchi, T.*¹², Koyama, H.*¹³, Senoo, T.*¹⁴, Toge, T.*¹⁵, Monden, Y.*¹⁶, Hattori, T.*¹⁷, Nomura, Y.*¹⁸, Sugimachi, K.*¹⁹, Hirata, K.*²⁰, Nakazato, H.*²¹, Miura, S.*¹¹, Morimoto, T.*²², Asaishi, K.*²³, Kimijima, I.*²⁴, Sonoo, H.*²⁵, Yamaguchi, S.*²⁶, THE 5'-BC STUDY GROUP. (*Breast Cancer Center, Toyosu Hospital, Showa University School of Medicine, 4-1-18 Toyosu, Koto-ku, Tokyo 135-8577; *²Tokyo Metropolitan Komagome Hospital, 3-18-22 Honkomagome, Bunkyo-ku, Tokyo 113-8677; *³St. Lukes Hospital, 9-1 Akashi-cho, Tsukiji, Chuo-ku, Tokyo 104-0044; *⁴University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033; *⁵Kushiro Rousai Hospital, 13-23 Nakasono-cho, Kushiro City, Hokkaido 085-0052; *⁶Sapporo Surgery Memorial Hospital, 15-1-30 Minami 23 Jyo-nishi, Chuo-ku, Sapporo City, Hokkaido, 064-0923; *⁷Fukushima Medical College, 1 Hakarigaoka, Fukushima City, Fukushima, 960-8102; *⁸Shorakudo Hospital, 5-1 Yanagi-cho, Senju, Adachi-ku, Tokyo 120-0032; *⁹Sannou Hospital, 8-5-35 Akasaka, Minato-ku, Tokyo 107-0052; *¹⁰St. Joseph Hospital, 28 Midorigaoka, Yokosuka City, Kanagawa 238-0018; *¹¹Aichi Cancer Center, 1-1 Kanokoden, Chikusa-ku, Nagoya City, Aichi 464-8681; *¹²Japan Society for Cancer Chemotherapy, #505, 1-18-35 Edobori, Nishi-ku, Osaka City, Osaka 550-0002; *¹³Osaka Medical Center for Cancer and Cardiovascular Disease, 1-3-3 Nakamachi, Higashinari, Osaka City, Osaka 537-8511; *¹⁴Kurashiki Medical Center, 250 Shiroraku-cho, Kurashiki City, Okayama 710-0824; *¹⁵Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima City, Hiroshima 734-8551; *¹⁶University of Tokushima, 3-18-15 Kuramoto-cho, Tokushima City, Tokushima 770-8503; *¹⁷Noyori Fukushima Hospital, 19-14 Aza Yamanaka, Noyori-cho, Toyohashi City, Aichi 441-8124; *¹⁸Oikawa Hospital, 2-21-16 Hirao, Chuo-ku, Fukuoka City, Fukuoka 810-0014; *¹⁹Kyusyu University, 3-1-1 Maidashi-ku, Fukuoka City, Fukuoka 812-8582; *²⁰Sapporo Medical University, 17 Minami 1jyo, Chuo-ku, Sapporo City, Hokkaido 060-8556; 21Yokoyama Gastroenterol Clinic, 3-11-20 Chiyoda, Naka-ku, Nagoya City, Aichi 460-0012; *²²Universitu of Tokushima, 2-50-1 Kuramoto-cho, Tokushima City, Tokushima 770-8509; *²³Sapporo Kotoni Breast Clinic, 2-5-15 Kotoni 2jyo, Nishi-ku, Sapporo City, Hokkaido 063-0812; *²⁴Ota Clinic, 2-5-20 Teraikedai, Tondabayashi City, Osaka 584-0073; *²⁵Kawasaki Medical University, 577 Matsushima, Kurashiki city, Okayama 701-0192; *²⁶St. Marianna University, 2-16-1 Sugao, Miyamae-ku, Kawasaki City, Kanagawa 216-8511, Japan): The effect of adjuvant 5'-deoxy-5-fluorouridine in early stage breast cancer patients: Results from a multicenter randomized controlled trial. *International Journal of Oncology*, **20**, 517-525, 2002.
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- fluorouracil and cisplatin in gastric carcinoma. *Int. J. Oncol.*, **20**, 549-555, 2002.
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9. Kim, R., Yamaguchi, Y., Toge, T.: Adjuvant therapy for colorectal cancer. *Anticancer Res.*, **22**, 2413-2418, 2002.
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15. Shimizu, K., Yamashita Y., Hihara, J., Seto Y., Toge, T.: Carveous Hemangioma of the Rib. *Ann Thorac Surg*, **74**, 932-934, 2002.
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- the esophagus. Shoukaki-Geka, 25: 163-167, 2002.
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24. Hirai, T., Toge, T., Tubota, N.* (*School of Medicine · Dept. of Public Health): Transhiatal esophagectomy for superficial esophageal carcinoma. Shujutu, 56: 1691-1696, 2002.
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Department of Surgical Oncology and ⁵Department of Biochemistry and Biophysics, Research Institute for Radiation Biology and Medicine, Graduate School of Medical Science, Hiroshima Universtiy. ²Department of Surgery, Hiroshima City Asa Hospital, ³Department of Surgery, Hiroshima City Hospital, ⁴Department of Epidemiological and Clinical Research Information Management, Kyoto University, Graduate School of Medicine, Faculty of

Medicine

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