

- 遠隔転移、腹膜播種を有する手術不能胃癌、胃 癌術後再発を対象
- 化学療法、温熱療法、高気圧酸素治療による集
 学的治療の成果
- 全体の中間生存期間は18ヶ月、2年生存率は 32%
- 遠隔転移、腹膜播種のどちらか一方の症例は、 両者を有する症例より有意に予後が良かった
 集学的治療による良好な治療成績が証明された

Palliative chemo-hyperthermia for primary or post-operative gastric carcinoma with organ metastasis or peritoneal dissemination

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Backgrounds

 Generally, in the case of primary or postoperative gastric carcinoma with organ metastasis or peritoneal dissemination, palliative chemotherapy was performed.

 We performed chemotherapy plus regional hyperthermia (HT) and hyperbaric oxygen therapy (HBO) for these conditions of 45 patients.

Materials

Between 2007-2011

 The patients were 28 males and 16 females, mean age were 62.2, performance status (PS) was 1: 2=34: 10.

 21 patients were primary disease (stage IV) and 23 were post-operative recurrence.

 Pathological diagnosis: differentiated type: anaplastic type=17: 26.

Chemotherapy

• First line chemotherapy regimen

Regimen	No. of cases
CDDP/S-1	28
S-1	5
5-FU/LV	4
PAC/CDDP	3
DOC	2
PAC	1

Hyperthermia

- All patients were received. • Session: 25.7 ± 17.2
- 8 MHz radiofrequency-capacitive regional hyperthermia (Thermotron RF-8)
- Heating location: lung, liver, pelvis, peritoneum (focus to main tumor)
- time: 50min
- Schedule: just after chemotherapy or during chemotherapy

Hyperbaric oxygen (HBO)

- All patients were received.
- Session: 19.6±15.2
- Chamber (Sechrist Industries Inc., model 2800 J, Anaheim, California) pressured with 100% oxygen to 2.0 atmospheres absolute
- Time: 90min
- Schedule: just after chemo-hyperthermia

Hyperbaric



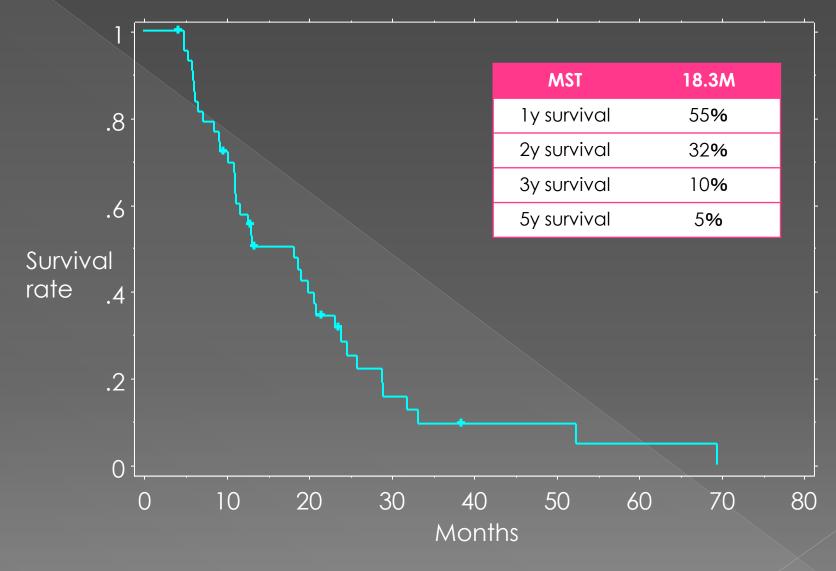


Fig. 1: Overall survival curve of all cases

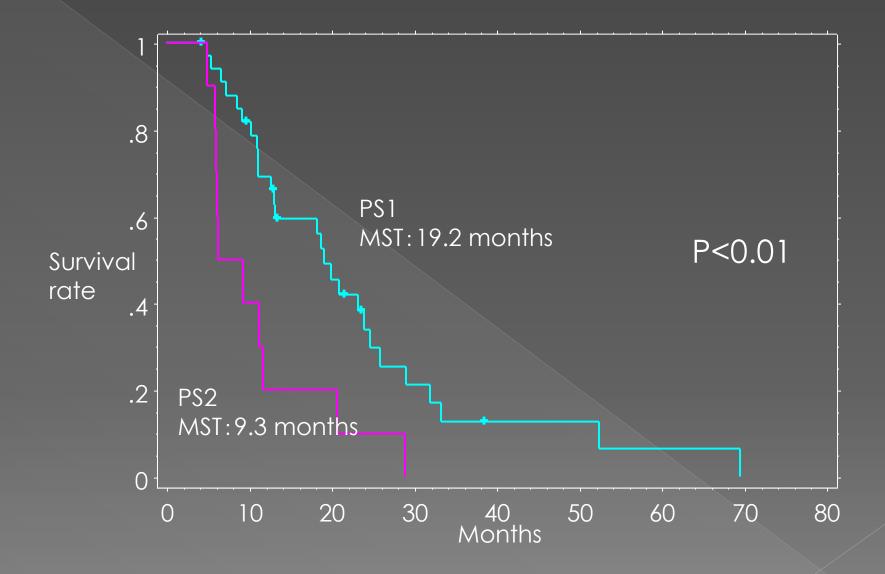


Fig. 2: Overall survival curve by PS

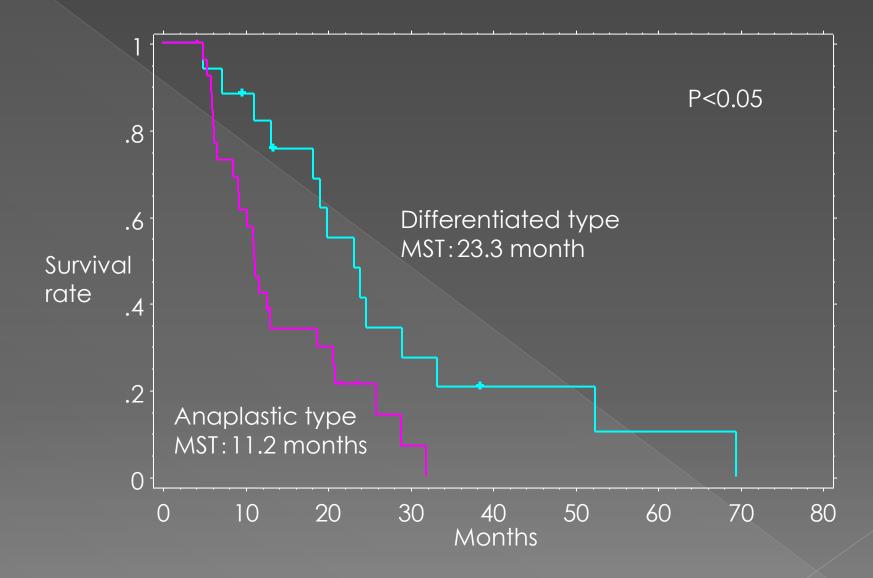


Fig. 3: Overall survival curve by histological type

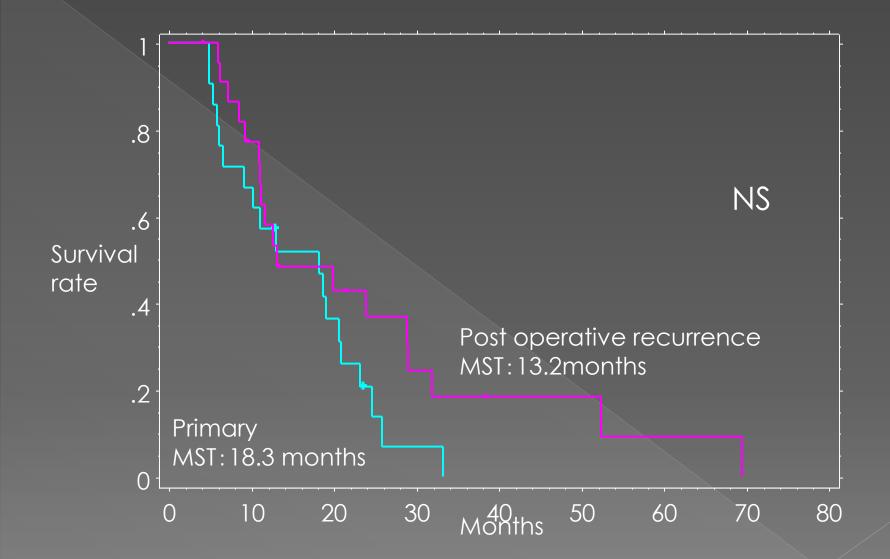


Fig. 4: Overall survival curve by primary or post operative recurrence

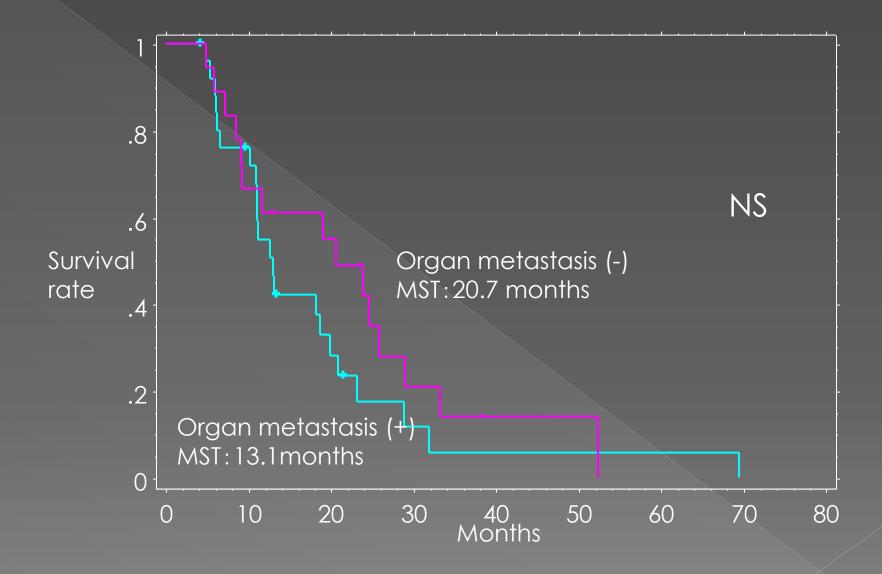


Fig. 5: Overall survival curve by organ metastasis

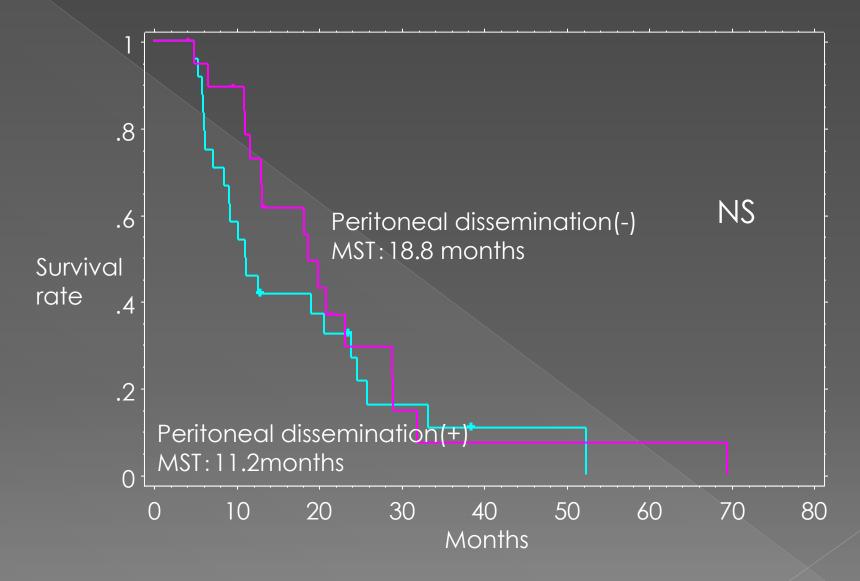


Fig. 6: Overall survival curve by peritoneal dissemination

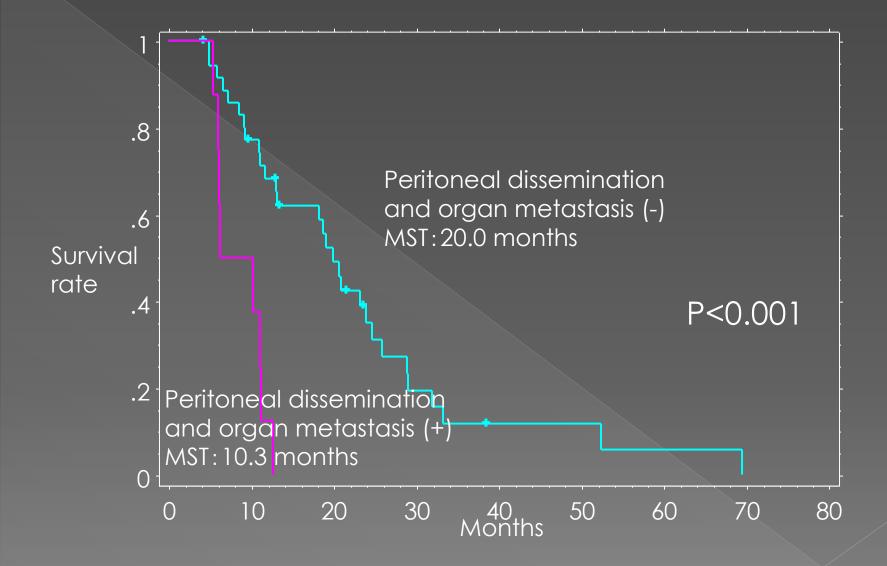


Fig. 7: Overall survival curve organ metastasis and peritoneal dissemination

Results

 Median survival time was 18.3 months and 1, 2 and 3 year survival rate was 55, 32 and 10%, respectively (Fig. 1).

 Fig. 2-6 show the results of univariate analysis for overall survival. Significantly difference was recognized in PS (PS 1 > PS 2) and histological type (differentiated > anaplastic) as shown in Fig. 2 and 3.

 Fig. 7 showed that overall survival of the either organ metastasis or peritoneal dissemination group was significantly better than the both group (p<0.001).

Discussion

- S-1 plus CDDP is standard regime for the good PS patients with primarily unresectable and recurrent gastric cancer and high response rate (14%) and long median survival time (13 months) were shown by S-1 plus CDDP in Japan.
- We performed the chemotherapy combined with HT and HBO for primarily unresectable and recurrent gastric cancer, because both HT and HBO might be potentially valuable due to their actions as chemo-sensitizers,
- In this study, better median survival time (18 months) was shown. Multidisciplinary therapy including chemotherapy, HT and HBO may be useful for primarily unresectable and recurrent gastric cancer.

Conclusion

 In the palliative chemotherapy for primary or post-operative gastric carcinoma with organ metastasis or peritoneal dissemination, combination with HT and HBO could contribute to a better clinical outcome.