

CACER INSTITUTE HOSPITAL Department of Gastroenterological Chemotherapy

Clinical progress in inoperable or recurrent advanced gastric cancer treatment from 1,004 single institute experiences between 2007 and 2018

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- ✓ In the past decade, several successful clinical trials provided new therapeutic agents approved for clinical management of advanced gastric cancer (AGC). 1-18)
- ✓ Currently, Japanese AGC patients could receive systemic chemotherapy at most in the fifth or sixth (if HER2-positive) line as standard treatment in the clinical practice.
- ✓ It is unknown whether these practice-changing results actually altered our dairy practice.

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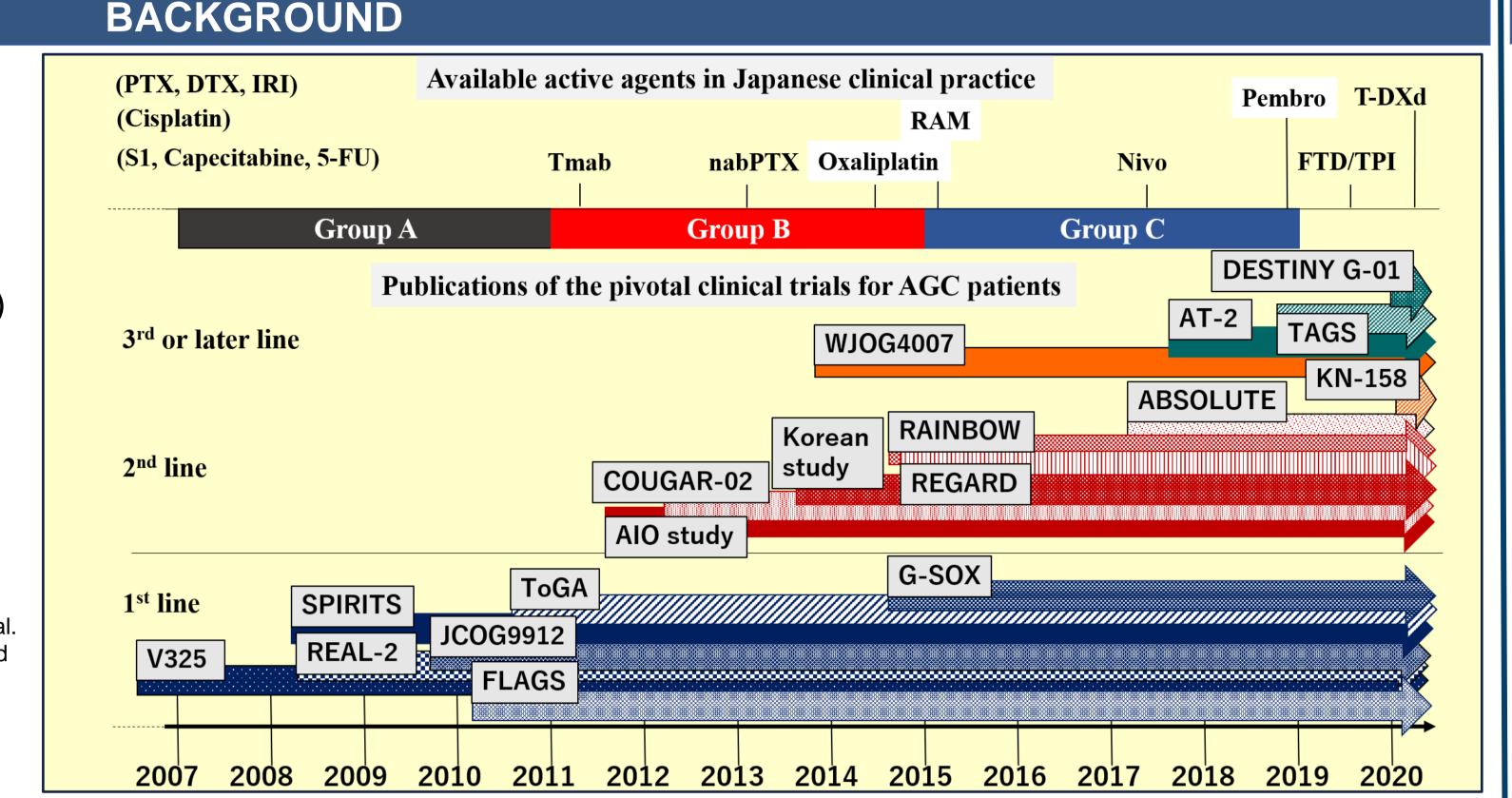
✓ This study was conducted to elucidate how successful clinical trials have influenced clinical practice for the future development of clinical trials in this field.

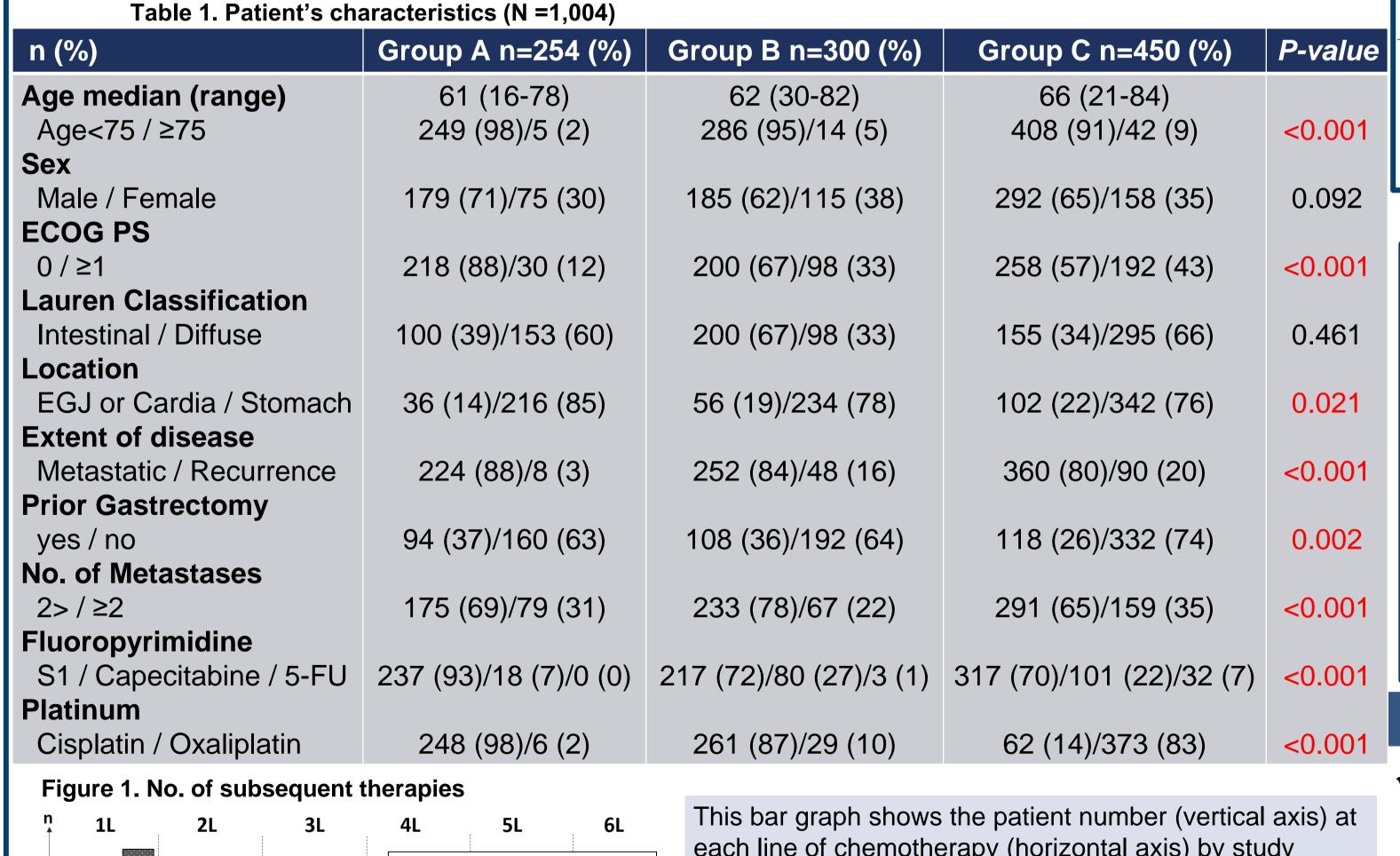
METHODS

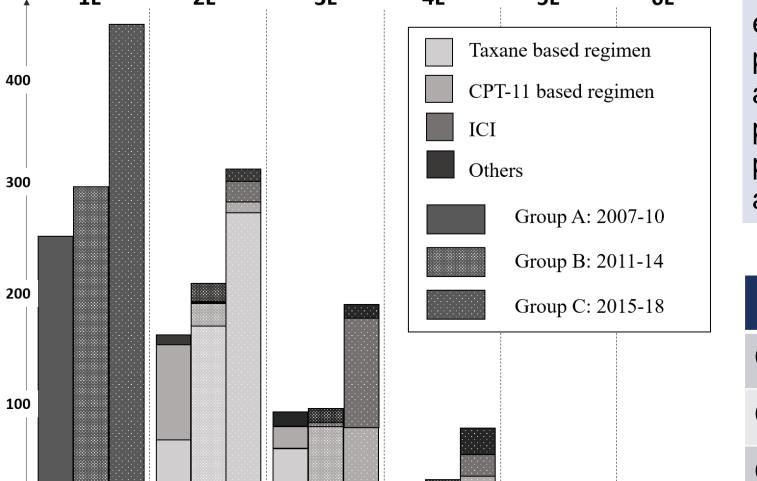
- ✓ We retrospectively reviewed medical records of AGC patients who received between 2007 and 2018 and divided them into three groups: Groups A, B, and C: 2007–2010, 2011–14, and 2015–18, respectively.
- ✓ We compared the clinicopathological features, treatment details, and clinical outcomes between the three groups.
- Main inclusion criteria were the following criteria: (1) had histologically proven advanced esophagogastric junction (EGJ) and stomach adenocarcinoma; (2) received combination chemotherapy containing fluoropyrimidine and platinum; (3) received no prior systemic chemotherapy for metastasis; and (4) provided written informed consent for receiving the treatment.
- ✓ We excluded patients with other types of advanced tumors and those with early recurrence (<6 months after the final administration of neoadjuvant or adjuvant chemotherapy).

DISCLOSURE

The authors declare no conflicts of interest associated with this presentation.







each line of chemotherapy (horizontal axis) by study period. A total number of patients were increasing by age at any line of chemotherapy. Only limited number of patients received 3≥ line of chemotherapy. The preferentially chosen treatment regimens were different among study period in second and third-line treatment.

Table 2. The proportions of subsequent therapies 2L/3L 3L/4L 4L/5L 1L/2L Group A Group B 42.9% 81.9% 66.4% 42.6% 37.7% Group C

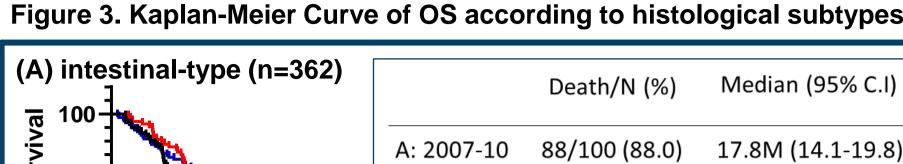
Figure 2. Kaplan-Meier Curve of OS according to the study periods OS: All patients (n=1,004) **—** 2007-2010 **2011-2014 2015-2018** months OS at 1yr (95% CI) (95% CI) Death/N (%) A: 2007-2010 232/254 (91.3) 62.6% (56.3-68.2)

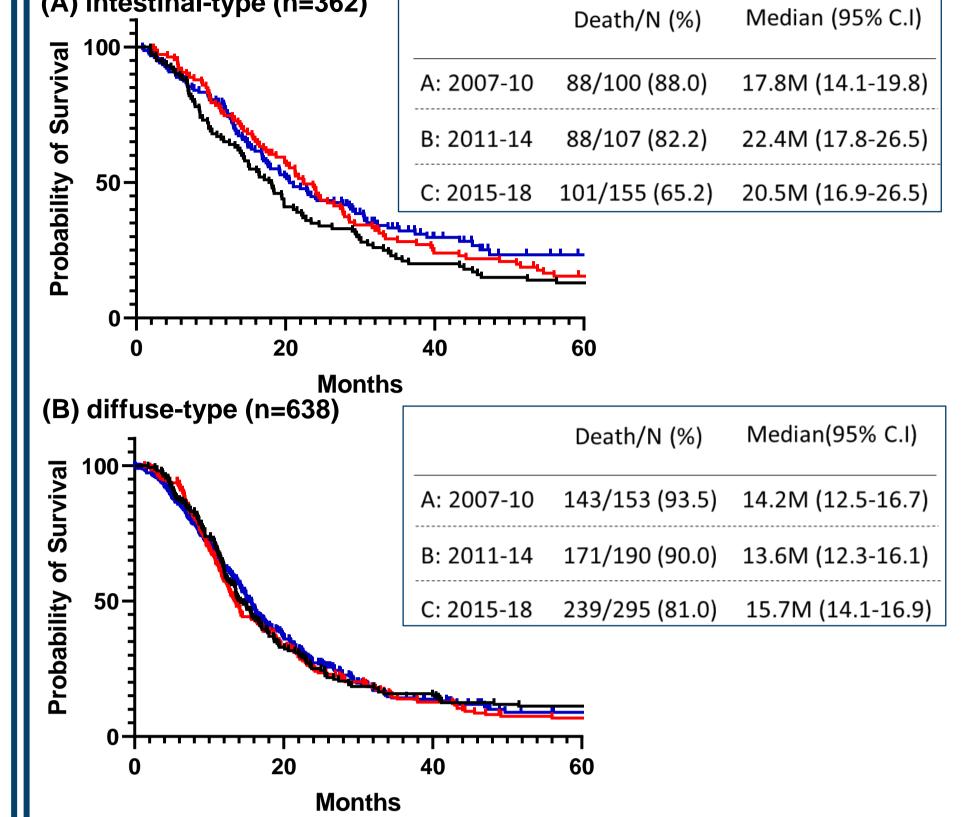
C: 2015-2018 340/450 (75.6) 16.8M (15.0-18.2) 66.8% (62.1-71.0)

There was no statistically significant difference both in OS and

PFS of whole population between any two groups.

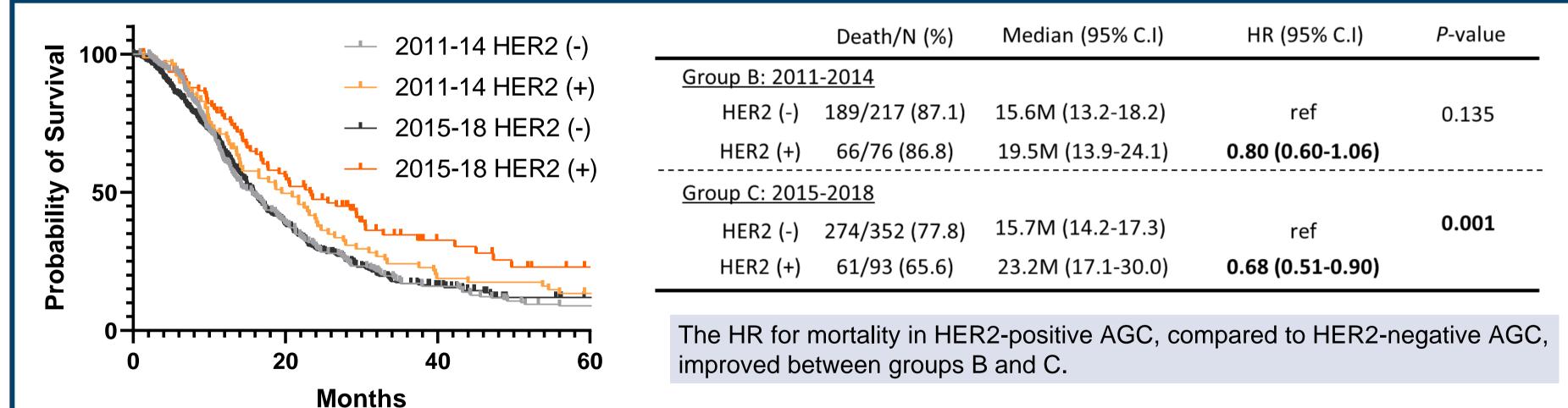
B: 2011-2014 260/300 (86.7)





Trend toward statistically significant difference in OS of intestinal-type AGC was observed between Group A and Group B or C. However, Kaplan-Meier curves of OS of diffuse-type AGC were almost identical.

Figure 4. Kaplan-Meier Curve of OS according to HER2 status (Group B and C)



RESULTS

DISCUSSIONS

- ✓ The increasing availability of chemotherapy options has expanded chemotherapeutic indications and caused the imbalance of patient characteristics between three groups.
- Second and later line Chemotherapy had been performed with high proportion of patients in the Group A. Thus, global establishment of second and later line therapy had a little impact on our dairy practice.
- ✓ Due to the shorter follow-up, the long-tail effect by immune therapy would not be adequately evaluated in this study. Updated analysis would be warranted.

CONCLUSIONS

- ✓ Prolongation of survival was not observed in the overall study population in the past decade, but was clearly evident in HER2-positive AGC. The prognosis of diffuse-type AGC remains dismal.
- ✓ Further development of biomarker-driven therapy is warranted to improve the prognosis of AGC patients.