

## Peer Review File

**Article Information:** <https://dx.doi.org/10.21037/tau-22-521>

### Reviewer Comments

The authors presented the incidence and age of germ cell tumors in adult male.

I have some comments and questions for author:

1. Germ cell tumors occur in male and female and only 10 patients belong to extragonadal germ cell tumor. I suggest the authors focus on testicular germ cell tumors.

Response: Thank you for the comments. We agree with the suggestion and focused on testicular germ cell tumor (TGCT). Also. We have updated our revised number of patients with additional cases. Results were also revised according to new outcomes.

Page 4 line 69

We retrospectively reviewed the records of 214 patients with testicular GCTs who received treatment between January 2001 and December 2021 at Hirosaki University Hospital and seven related hospitals in Aomori Prefecture.

Page 4 line 74

Patients with extragonadal GCT and missing data were excluded.

2. How many patients were diagnosed as mixed type germ cell tumors?

Response: Thank you for the comments. We added this data in Tables 1 and 2. Mixed histology was observed in 48 (24.9%) patients.

3. The major limitation is small sample size of this study (Aoi Mori Open data Catalog). Do the results of this database can represent the trend of Japan? If authors can provide the evidence regard to this question, the results of this study may have better chance to convince the readers.

Response: Thank you for the comments. There is little data investigating the trend in Japan. An article examined the proportion of patients aged  $\geq 40$  years in Japan (Yamashita et al). They reported that increased significantly from 16.7% in the 1980s to approximately 40% in the period 2010–2019. We added this article to the discussion.

Page 7 line 121

Yamashita et al evaluated 563 patients with testicular GCT and reported that the proportion of patients aged  $\geq 40$  years increased significantly from 16.7% in the 1980s to approximately 40% in the period 2010–2019 (12).

4. Figure 2B: does the difference in 40s/ 50-60s has significant difference between 2001-2010 and 2011-2021?

Response: Thank you for the comments. these data are simply calculated percentages and are not statistically analyzable, unfortunately. We could say that it is “increasing” but could not say “significantly”.

5. Figure 2C: does the difference in all age group has significant difference between 2001-2010 and 2011-2021?

Response: Thank you for the comments. these data are simply calculated percentages and are not statistically analyzable, unfortunately.

6. Please described the clinical utility of this study.

Response: Thank you for the comments. We agree with the suggestion. We added the following sentences in the abstract and main text.

Abstract: Page 3 line 51

Treatment strategies need to be adapted to older testicular germ cell tumor patients.

Page 8 line 151

Our data may be a useful reference for considering treatment strategies for older GCT patients.