Annual Trends of Marriage Age and Duration of Postponing Parenthood in Japanese Azoospermic Couples

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Abstract

MP26-20

Introduction and Objective

Late marriage is a serious issue in Japan. The first marriage age of men and women in Japan in 2004 was 29.6 and 27.8 years old, respectively; this increased to 31.1 and 29.4 years old in 2017, respectively. Because aging reportedly has adverse effects on reproductive function, the effect of late marriage on azoospermic couples' age should be assessed to improve therapeutic outcome. In this study, we assessed the annual change in marriage age and duration of postponing parenthood (DPP) of Japanese azoospermic men.

Methods

In total, 495 couples with obstructive or nonobstructive azoospermia who underwent surgical sperm extraction between 2004 and 2018 were included in this study. Clinical records were retrospectively reviewed, and marriage age and DPP were extracted.

Results

The marriage age of azoospermic men increased, but was not statistically significant, until 2013; however, the age of their wife was constant during the study period. Among 495 couples, 167 (33.7%) reported that they had a period of postponing parenthood. Of these 167 couples, the DPP significantly decreased with recent year (p < p0.01, Jonckheere – Terpstra test). Although the marriage age of men was not related to DPP (r = 0.037, p = 0.63), older women had significantly shorter DPP (r = -0.178, p = 0.02). These correlation coefficients were significantly different (p < 0.05, z transformation of correlation coefficient).

Conclusions

This is the first report assessing marriage age and DPP of Japanese azoospermic couples. We found increased marriage age only in men, indicating that late marriage in the general public effects the marriage age of azoospermic men but not women. This result suggests that women are more interested in earlier parenthood than men. Providing more information about male infertility to the general public can shorten DPP of azoospermic men, which could result in early therapeutic intervention for azoospermia.

Introduction & Objective

- Late marriage is a serious issue not only in Japan but also in other countries.
- In Japan, the age of men and women at the time of first marriage increased (Fig.
- The obtained sperm decreases when maternal age exceeds 35 years
- We believe that aging is an avoidable factor.

Aim of This Study

| [Subjects] | - | Between 2 |
|------------|---|------------|
| | - | A total of |
| | | OA or NO |
| | _ | The numb |

- the Fig. 2
- [Methods]
- In this study, <u>d</u>uration of <u>p</u>ostponing parenthood (DPP) is defined as months between marriage and deciding to wish children (Fig. 3).

This study was approved by our Institutional Review Board at Nagoya City University Hospital (No. 60-18-0017) and written and informed written consent was obtained from all patients.

ICSI outcome using surgically



Fig 1. Increased age of men and women at the time of first marriage in Japan Data from Ministry of Health, Labor and (https://www.mhlw.go.jp/index.html)

• To clarify the relationship between age of azoospermic men or their wives and tendency of late marriage in Japan.

Methods

2004 and 2018 495 men with

- The number of patients in each year is shown in

- Age at first visit to our hospital of patients and their wives were noted.





2. Annual Trends in Duration of Postponing Parenthood



