Clinical examination of the Astra Tech Implant System over 5-year period in our department

Maiko Yamada, Shin Ogura; Division of Oral Implant, The Nippon Dental University Hospital

Background:

Our department started using the Astra Tech Implant System in June 2010. Here, we report a clinical study we carried out regarding implant placement cases handled over the past 5 years.

Material and Methods:

Subjects included 480 cases (1090 implants) of implant placement surgery performed over the past 5 years from June 2010 to May 2015 at our department.

We analyzed the following criteria;

- (1) gender,
- (2) average age when the patient had placement surgery performed,
- (3) the details of the case,
- (4) location of implant,
- (5) the kind of implant used,
- (6) the survival rate.

Results:

- (1) The cohort included 208 male cases and 272 female cases.
- (2) The average age when the patient had placement surgery performed was 53.5 ± 14.3 years old overall.
(male: 54.8 ± 13.7 years old, female: 52.5 ± 13.1 years old)
- (3) The details of the case,

	numbers	cases
maxilla	470	208
mandible	620	272
total	1090	480

(4) Location of implants

(5) The kind of implant used,

(6) The survival rate.

	survival rate (%)
maxilla	2 / 470 (99.6)
mandible	13 / 620 (97.9)
total	15 / 1090 (98.6)

The lengths of lost implants ranged from 9mm to 15mm, with 6 lost before loading and 9 lost after loading.

Discussion and Conclusion:

Here, we performed a clinical analysis of the 5-year period over which our group has used the Astra Tech Implant System.

Although we reported long-term observation data for implants featuring surface treatments from other vendors, the results presented are consistent and likely to be useful for further investigation. However, a comparison remains difficult due to the short research period used in this analysis and more long-term analysis is planned for future studies.