

Report of the 1st SASOMI Annual Meeting of the South Asian Society of Oral and Maxillofacial Implant



South Asian Society for Oral and Maxillofacial Implantology in India

1st SASOMI International Conference

Theme: New Frontiers- Digital Dentistry

Digital Conference

26 Feb (Fri) to 28 Feb (Sun) 2021

Guest Professor, Kanagawa Dental University
Kosei Dental Clinic
Takao WATANABE (keiseikai@kosesika.or.jp)
March 10th 2021

The 1st Annual Conference of the South Asian Society for Oral and Maxillofacial Implant (SASOMI) was held from Friday, February 6, 2021 to Sunday, February 8, 2021 on a virtual platform. The outline of the meeting is briefly described below.

On the first day, SASOMI's Patron Dr. Nagesh Kikkeri gave the opening address and presented its purpose and background, as well as thanked Japanese Maxillofacial Implant Society for its support. Subsequently, Prof. Seto presented the role and mission of oral and maxillofacial surgeons in the maxillofacial area and reinforced the significance of academical approach in implant dentistry without commercialization. He also proposed joint research between India and Japan on the control of the new type of coronavirus infection.

Dr. Girish Rao reported various cases and ideas applying 3D digital technology to maxillofacial defects caused by malignant tumors, and it was highly appreciated. Japanese speakers presented over three days of the conference: Professor Jun Shimada and **Guest Professor Takao Watanabe** on the first day, Professor Tetsu Takahashi and Professor Takahiro Kanno on the second day and Dr. Yasuhiro Kizu on the third day. The composition of Japanese presentation in the program showed consideration for Japanese speakers.



Day 1

SCIENTIFIC SCHEDULE KEYNOTE LECTURES

26th Friday, February 2021

| | | |
|----------|---|--|
| 10.00 AM | Inauguration Lecture - Introduction to SASOMI and its Dynamics | Dr. Nagesh K.S India |
| 10.20 AM | Establishment of a new dental implant academism in Asia while fighting the pandemic storm | Dr. Kanichi SETO Japan |
| 11.00 AM | Application of 3D printed Technology in Maxillofacial Surgery | Dr. S Girish Rao India |
| 11.20 AM | Immediate replacement of maxillary molar with dental implant to prevent sinus elevation | Dr. Jun SHIMADA Japan |
| 11.40 AM | Regeneration Solutions | Dr. Suresh Shanmuganathan Sri Lanka |
| 12.00 PM | Rehabilitation Of Post Pathology Defects Of Maxillofacial Cysts & Tumours Using Endosseous implants | Dr. Abhay Datarkar India |
| 12.20 PM | Short And Successful | Dr. Padmanabhan India |
| 12.40 PM | A Long-Term Case Of One Stage Maxillary Sinus Floor Elevation By A New Concept. | Dr. Takao Watanabe Japan |

VIEW EVENT

Day 2

SCIENTIFIC SCHEDULE KEYNOTE LECTURES

27th Saturday, February 2021

| | | |
|----------|---|--|
| 10.00 AM | Implant-supported prosthesis after reconstruction of the mandible with free fibular flap using 3D CAD/CAM models and cutting guides | Dr. Takahashi Japan |
| 10.20 AM | Current trends in digitally based implant surgery and prosthodontics | Dr. Shankar Iyer USA |
| 10.40 AM | Japanese New Frontier in Digital-Computer-Assisted Oral Tumor Resection and Reconstruction | Dr. Takahiro KANNO Japan |
| 11.00 AM | Zygoma Implants for dento-alveolar rehabilitation in syndromic and other challenging situations | Dr. Gunasheelan Rajan India |
| 11.20 AM | Digital Dentistry For Predictability And Ease | Dr. Girish Bharadwaj United Kingdom |
| 11.40 PM | Clinical Decision making for Optimal Aesthetics around Implants | Dr. Ashvini Padhye India |
| 12.00 PM | Correction of alveolar bone defects in Implant placement | Dr. Srimevan Bandara Samarakoon Sri Lanka |
| 12.20 PM | Quality of life assessment in patients with maxillo-mandibular rehabilitation with implant supported fixed prosthesis on free fibula flap | Dr. Sankarshan choudhury India |
| 12.40 PM | Digital Learning Platform in Dentistry | Dr. Prashanth S India |

VIEW EVENT

Day 3

SCIENTIFIC SCHEDULE KEYNOTE LECTURES

28th Sunday, February 2021

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|----------|--|------------------------------------|
| 10.00 AM | Effectiveness of Static and Dynamic navigation for Dental Implant placement | Dr. Yasuhiro Kizu Japan |
| 10.20 AM | Technology based Prosthodontics | Dr. Anandakrishna India |
| 10.40 AM | Full arch rehabilitation - can conventional be replaced by digital technology ? | Dr. Joe Bhat United Kingdom |
| 11.00 AM | Soft Tissue management for implant restorations. | Dr. Sudhindra Kulkarni India |
| 11.20 AM | Harmonization of Soft and Hard tissues for Digital prosthesis in Implant Dentistry | Dr. Sunil Kumar Nettam Malaysia |
| 11.40 AM | Digging Digital Impressions | Dr. Vivek Chouskey India |
| 12.00 PM | Implant placement in esthetic zone | Dr. Samridhi Vaidya Nepal |
| 12.40 PM | Digitalization: A Quick And Hassle Free Solution For More Precise Implant Prosthesis | Dr. Supriya Manvi India |

VIEW EVENT

When the contents of the lecture were analyzed, there were 99 presentations in total from over seven countries. At the Keynote speaker session, there were 25 presentations from seven countries. According to the distribution of nationality, there were 13 presentations from India, 5 from Japan, 2 each from Sri Lanka and the UK, and 1 each from the USA, Malaysia, and Nepal. From review of abstracts of the lectures, there were 12 titles related to digital dentistry, 5 titles each related to maxillofacial surgery and aesthetic dentistry, 2 titles each of sinus-lift and full arch implants, regenerative therapy, Zygoma implants, had one title each. Other topics of interest included 3D printing technology, implant surgery and prosthetic production using digital guides, Japanese New frontier in Digital-Computer assisted Oral Tumor resection & reconstruction, full arch rehabilitation, and management of soft tissue and hard tissue in the aesthetic area.

There were 74 presentations in free paper speaker session of which there were 47 dental implant-related presentations and 37 oral surgery-related topics, such as tumors containing malignant tumors, trauma, etc. The ratio was 6:4.

Participants, atmosphere, and response

This virtual conference was conducted on a virtual platform using a software called Airmet by an event company, Dental Reach. Japanese was displayed via the automatic translation system considered by the organizers, and there were various communication sites such as Q&A, chat function, etc. The translated Japanese was not good, but there was a mechanism that allows real-time chat discussions or WEB meetings with participants from various countries. The presentations could be rated by viewers at any time by chat and smile mark, etc. This system was quite real and fun. This web conference indicated one sample of international conference. I thought it was influenced by the current time of pandemic, the differences in national affairs, the culture of English-speaking nations etc.

There were 658 clicks for participation on the web in 3 days. In Key note speaker sessions, 212 clicks were counted on the first day, followed by 145 on day 2 and 92 on day 3. In general session, 111 clicks were counted in general session on the first day, 69 on day 2, and 61 on day 3. It was estimated many people attended the keynote speaker lecture on the first day.

| Metric | Value |
|---|-------|
| User Count | 658 |
| Number of Attendees Joined Session | 384 |
| Number of Attendees Joined Table in Lounge | 12 |
| New Registrants | 647 |
| Emojis Count | 25 |
| SESSION-WISE ATTENDANCE | |
| PAPER PRESENTATION - DAY 3 | 51 |
| PAPER PRESENTATION - DAY 2 | 69 |
| Day 3 - Sunday, February 2021 | 92 |
| PAPER PRESENTATION - DAY 1 | 111 |
| Day 2 - Saturday, February 2021 | 145 |
| Day 1 - Friday, February 2021 | 212 |
| ARENA SUMMARY (BOOTH) | |
| No. of Booths | 2 |
| No. of visits to the booths | 26 |
| No. of unique visits | 9 |
| No. of unique visitors who submitted contact details (cli | 2 |
| SPONSOR ENGAGEMENT SUMMARY | |
| No. of sponsor logos | 2 |
| Total no. of clicks on sponsor logos | 7 |
| No. of unique clicks on sponsor logos | 6 |
| Total views of sponsor area in reception | 287 |
| Total unique views of sponsor area in reception | 85 |

Summary

South Asian Society for Oral and Maxillofacial Implantology, SASOMI is an academic society composed of dentists in South Asia (seven countries: Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka). The mission of this Society is to promote clinical research and training in the areas of Oral and Maxillofacial Oncology and Implantology in strong collaboration with Japan Academy of Maxillofacial Implants (JAMFI). It was established in Bangalore with the support of Dr. Nagesh Kikkeri, Dr. Girish Rao, Dr. Anand Krishna, and Dr. Kannichi Seto, Dr. Jun Shimada, and their colleagues on February 5, 2020. The Society set up its main office at No 134, 42nd Cross, 3rd Main, 8th Block Jayanagar, Bangalore-560082, INDIA. SASOMI HP; (<https://www.facebook.com/Sasomi-111702943649196/>) / <https://sasomi.org>

This conference is one the activities of SASOMI. Initially, it was supposed to be a normal style meeting. Due to global pandemic caused by Conoravirus, this conference was held virtually. It was also SASOMI's first attempt. It was the passion and great effort of the organizers that made this conference possible. I would like to sympathize and appreciate with them. In addition, I think that the lectures including Japanese speakers that were presented were very valuable because they were expressed at a high level, well organized and clear presentation. While it was busy daily life, speakers needed to make a video presentation that required a lot of time. They wanted that each professional work of the speakers will be spread not only in South Asia but also around the world through this 1st SASOMI conference.

This conference was different from the usual conference-style, and even if it was unavoidable that there was little sense of realism, a total of nearly 100 presenters from more than seven countries gathered. It was thought that the significance was not small at all because of the fact which the academic conference was performed for the first time in this region about implant treatment for the disease of the maxillofacial region.

Finally, I would like to pray that the headwinds of new type coronavirus pandemic have subsided and that JAMFI members will be free to work and achieve their research. SASOMI is a small bud that bloomed in South Asia with the support of everyone, and we look forward to your continued guidance and support in the future.

SASOMI HP (<https://www.facebook.com/Sasomi-111702943649196/>)

| Name | Topic | Time |
|--------------------|--|----------|
| Dr Aakash Bhardwaj | Transoral robotic surgery: A Contemporary cure for future maxillofacial surgery – A review | 10:00 AM |

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|--------------------------------|---|-------------|
| Dr Abhilash S | Dental Implants – through the ages | 10:10 AM |
| Dr Apoorva S.M. | Implants for orthodontic anchorage | 10:20 AM |
| Dr Abu Talha | Management of pregnancy in dentistry | 10:30 AM |
| Dr Anitha Subbappa | Ag Doping titanium surfaces | 10:40 AM |
| Dr Anupama C | An in vitro evaluation of impact of platform switching on peri – implant bone: A three-dimensional finite element analysis | 10:50 AM |
| Dr Gowri Priya | Trefoil concept – A novel approach for rehabilitation of edentulous mandible | 11:00 AM |
| Dr Aparajita Adurti | Tongue flaps used in reconstruction of oral defects | 11:10 AM |
| Dr Aparna Suraj. N | A modified surgical approach for and soft tissue reconstruction of severe peri-implantitis defects: laser – assisted peri-implant defect regeneration (LAPIDER) | 11:20 AM |
| Dr Avnish Jindal | post-operative evaluation of immediate and delayed implant in single tooth replacement | 11:30 AM |
| Dr Basudha Mukherjee | post-operative evaluation of immediate and delayed implant in single tooth replacement | 11:40 AM |
| Dr Divya Bhat | Cementum formation around implants via cell sheet engineering | 11:50 AM |
| Dr Divyasri Subramanian | Digital dentistry – thinking beyond the clouds | 12:00 PM |
| Dr Garima Singh | Comparative evaluation of healing in extraction sockets with and without manuka honey | 12:00 PM |
| Dr Hansy Gohel | Digital impression | 12:00 PM |
| Dr Jerusha Fernandes | The use of zig zag incision in the management of oral submucous fibrosis | 12:00 PM |
| Dr Kalyani Bhate | Role of human chorionic amniotic membrane in socket healing before implant placement – preliminary study | 12:00 PM |
| Dr Kommana Poojitha | Osseodensification less bone loss – more benefits | 12:00 PM |
| Dr Kusha Jagadeesh | Neoadjuvant radiotherapy: boon or bane? | 1:00 PM |
| Dr Lakshmi Shetty | 3D printing grandeur in malar deformity | 1:10 PM |
| Dr Lucky Gupta | Rare occurrence of tubercular osteomyelitis of mandibular condyle – A case report | 1:20 PM |
| Dr Manaswi Tripathi | Temporomandibular aches in posteriorly edentulous patients | 1:30 |

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| | | PM |
| Dr Maroofa Hafiz | A seldom occurrence of teratoma in maxillary sinus – A case report | 1:40 PM |
| Dr Masud Faruk | Case report on infected radicular cyst | 1:50 PM |

| Name | Topic | Time |
|---------------------------------|---|-------------|
| Dr Megha Rao | Radix Entomolaris – The Hidden Root | 10:00 AM |
| Dr Mohamad Khanday | Providing dental treatment for children with autism spectrum disorder (ASD) represents a challenge for pedodontist | 10:10 AM |
| Dr Noora Begum | Acute Myeloid Leukemia – A Case Report | 10:20 AM |
| Dr Partha Pratim Debnath | Evaluation of the role of autologous platelet rich fibrin in bone regeneration and osseointegration of immediate implants placed into extraction sockets | 10:30 AM |
| Dr Pranshu Sachdeva | Dentine hypersensitivity and it's advances in treatment | 10:40 AM |
| Dr Pratik Mor | Recent advances in the diagnosis of oral and maxillofacial trauma | 10:50 AM |
| Dr Rajeswari C.L | Implant overdentures: An Optimal treatment option for mandibular edentulous arches | 11:00 AM |
| Dr Rakesh kumar Doodi | Pectorals Major Myocutaneous Flap – A Versatile Flap | 11:10 AM |
| Dr Rameshwari B | Implant placement with maxillary sinus lift procedure: A Case Report | 11:20 AM |
| Dr Reshmi V Nair | Every tooth in a man's head is more valuable than a diamond | 11:30 AM |
| Dr Sahana M S | Granulomatous inflammation in oral cancer: A Coincidence or a significant association | 11:40 AM |
| Dr Sandeep Kumar | Knowledge and awareness of Dental Implants in Indore: An Exploratory Study | 11:50 AM |
| Dr Sapna N. | Platform Switching | 12:00 PM |
| Dr Shilpa Bawane | Comparative Evaluation of bone quality in bilateral direct maxillary sinus lift procedures using biphasic calcium phosphate and demineralized freeze-dried bone | 12:00 PM |
| Dr Shiphalika Sinha | Partial Extraction Therapy | 12:00 PM |
| Dr Shreya Singh | Efficacy of Piezoelectric surgery for ridge expansion and immediate implant placement | 12:00 PM |
| Dr Shubhankar | Short implants as surrogate treatment options in the posterior | 12:00 |

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| Mehrotra | maxilla | PM |
| Dr Shubhjit Mehta | Evaluation of root surface of tooth of periodontally involved teeth after manual, ultrasonic and diode laser instrumentation – an Invitro SEM Study | 12:00 PM |
| Dr Sneha Setiya | Intraparotid Schwannoma – Tumour in Disguise | 1:00 PM |
| Dr Suchetha A | Management of Peri-Implantitis using laser therapy | 1:10 PM |
| Dr Sudha | Bisphosphonate induced osteonecrosis of the jaw – a review in cancer patients | 1:20 PM |
| Dr Sunil Vasudev | Guided implant surgery accuracy and efficiency – a Prospective Clinical Study | 1:30 PM |
| Dr Surekha tanwar | To compare cyanoacrylate with resorbable suture for wound healing in third molar surgery | 1:40 PM |
| Dr Swathi B.S | Management of Fractured dental implant fixtures | 1:50 PM |
| Dr Swati George | Influence of soft tissue grafting, orofacial implant position, and angulation of facial hard and soft tissue thickness at immediately inserted and provisionalized implants in the anterior maxilla | 2:00 PM |
| Dr Tushar Nadagadalli | CAD/CAM Surgical Guides in Implant Dentistry | 2:10 PM |
| Dr Uday Londhe | Autogenous bone block graft from mandibular symphysis region used for augmentation of alveolar ridge defect due to facial trauma: A case report | 2:20 PM |
| Dr Varsha BK | Oncologic Deficiency – Role of Implants | 2:30 PM |
| Dr Vishal Rana | Central Giant Cell Granuloma (CGCG) A Case Report | 2:40 PM |

| Name | Topic | Time |
|--------------------------------|---|-------------|
| Dr Abirami | Role of MMPs in oral leukoplakia | 10:00 AM |
| Dr Aditi Keerti | Assessment of tobacco exposure in pregnant women | 10:10 AM |
| Dr Aparna S Namboothiri | Tuned aperture computed tomography – A significant insight for radiodiagnosis | 10:20 AM |
| Dr Balaganesh P | Pink Tooth Rehabilitation | 10:30 AM |
| Dr Divyalakshmi M. R | Determination of serum IgA and IgE levels in patients with squamous cell carcinoma of the oral cavity | 10:40 AM |
| Dr Ekta M | Digital tomosynthesis – A possible future alternative for conventional 2D radiography | 10:50 AM |

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| Dr Gowri Priya | Trefoil concept – A novel approach for rehabilitation of edentulous mandible | 11:00 AM |
| Dr Jehan Jacob | Efficacy of socket shielding technique for immediate implant placement in esthetic zones | 11:10 AM |
| Dr Johbin Joseph | Conventional single piece implants | 11:20 AM |
| Dr Latha shree | A review on third hand smoke exposure | 11:30 AM |
| Dr Madhuri Shinde | Navigation implant – A guided implant surgery | 11:40 AM |
| Dr Mamatha Siddalingappa | Ridge split technique | 11:50 AM |
| Dr Maneesha sree | Verrucous carcinoma of maxilla – A case report | 12:00 PM |
| Dr Manmita Das | A review of micro-computed tomography in dentistry: Exploring the unexplored | 12:00 PM |
| Dr Mansimranjit Kaur Uppal | Oral malignancy in light of covid-19 | 12:00 PM |
| Dr Mohit Sharma | Evaluation and comparison of full-mouth disinfection and aloe vera extract post - SRP | 12:00 PM |
| Dr Niranjani Raja | Chondrolipoma of the lower lip | 12:00 PM |
| Dr Prashanthy | Horizontal alveolar ridge augmentation by the allograft bone shell technique – A case report | 12:00 PM |
| Dr Puneeth M S | Osseodensification - review | 1:00 PM |
| Dr Raghunand Sindhe | When there is no hope – digital dentistry the way forward | 1:10 PM |
| Dr Seema Patil | Revisiting lateral lingual foramina of the mandible | 1:20 PM |
| Dr Shaily Sharma | Current status of intraoral scanners | 1:30 PM |
| Dr Shaiqua Nooreen | Computer-Assisted navigation surgery in oral and maxillofacial surgery | 1:40 PM |
| Dr Srija Ramakrishna | The effects of seconds-hand smoke in various sectors around the world | 1:50 PM |
| Dr Subash B V | Factors influencing gray value in CBCT – A narrative review | 2:00 PM |
| Dr Sudhakar A | Comparison of immediate provisionalization of dental implants placed in healed alveolar ridges and immediate extraction socket | 2:10 PM |
| Dr Supriya Kheur | Photo functionalization enhanced hydrophilicity, osteoblastic adherence, proliferation, and mineralization on implant surface in | 2:20 PM |

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| | a high glucose environment | |
| Dr Susi Vijay Raj | Immediate extraction and implant placement in anterior region | 2:30 PM |
| Dr Syed Javad Saleem | Use of microvascular free fibula and endosseous implants in reconstruction and rehabilitation of maxilla and mandible | 2:40 PM |




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Theme: New Frontiers- Digital Dentistry
Digital Conference
 26 Feb (Fri) to 28 Feb (Sun) 2021

Organized by:
South Asian Society for Oral Maxillofacial Implantology (SASOMI)


1

Japanese Key-Note Speaker

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title/ Abstract |
|-------|--|--|---|
| 1. | Dr. Kanichi SETO, PhD, DMD  | Director of Oral Cancer Center Southern Tohoku Research Institute for Neuroscience President International Healthcare Foundation Dr. Kanichi Seto graduated as an Oral maxillofacial Surgeon from Tokyo Medical and Dental University in 1974. Moving on to Kurume University, School of Dental Medicine, he served initially as an associate professor and then professor of First Oral Surgery for 30 years. His high level of clinical practice and quality of research expanded all over the country as well to several foreign countries. After retiring, he joined General Tohoku Hospital in Koriyama City, Fukushima Prefecture where Dr. Seto has been the driving force behind the launch of Boron Neutron Supplement Therapy (BNCT) for the first time in the world. With his highly advanced, latest treatment methods and well-trained oral surgery personnel, he aspires to bring about consistent treatment methodology for recurrent cancer and build a hospital share network related to cancer treatments in the world Email: kanichiseto@gmail.com | 1. Keynote Address: Vision for SASOMI Title: Renovation of Dental Implant Concept while fighting the pandemic storm Abstract: It was truly significant that SASOMI sailed safely just before the pandemic storm of COVID-19 in February last year. As soon as we left the port, we have been facing to an enormous storm, still we have not hesitated to continue and develop our team approach toward brilliant future for reliable Dental Medicine assisted by OMS. And the main subject of this memorial international congress is "Digital Dentistry". Yes, everybody realizes that India is surely the most advanced country in terms of digitalization. We are really thrilled to get wonderful reports from Asian colleagues. Definitely the front runner in digital dentistry would be "Digital Implantology". On this point we would like to collaborate together with Indian and South Asian Colleagues in the near future. We are, however, facing now is that conventional Japanese pre- and postgraduate education on dental implants is not yet standardized. Rather, it can be said that implant science has not been growing completely in Japanese Dental School. In the meanwhile, dental implant business spread like wildfire among practice dentists led by manufacturers. As a result, the accident rate and the number of troubles in implant clinics has been increasing rapidly, and the whole dental medicine is losing the trust of the public. Now it might be a phase to reform comprehensive dental education. The current dental education in Japan is too widely diverge from that of medicine. Dental education should be placed in health science before digitizing dental technology. I would like to ask what the situation is in India and South Asian countries. This reform can only be done by OMS leading the way. Specifically, I would like to propose that dental students be required to have one year training at OMS dept. in a general hospital. An urgent need is to assign specialists for infection control and patient safety at each dental college. Today I would like to talk about how Japanese Oral Surgeons are trying to protect dental care sites from SARS-COV-2 virus infection. We must keep in mind that the oral cavity is the largest infection risk site for COVID-19. |

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Japanese Invited Speakers

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title/ Abstract |
|-------|--|--|---|
| 2. | Dr. Jun SHIMADADD, PhD, FIBCSOMS  | Meika University School of Dentistry, First Division of Oral and Maxillofacial Surgery, Sakado JAPAN Email shimadajun@mac.com | Title: Immediate replacement of maxillary molar with dental implant to prevent sinus elevation Abstract: For implant treatment of maxillary anterior teeth, immediate replacement is usually recommended to preserve soft and hard tissue surrounding implant and get esthetic result. However, the immediate replacement of maxillary posterior teeth is not a usual treatment sequence. After the extraction of maxillary molar, height and width of alveolar process are decreased year by year due to bone resorption. In the case of maxillary molar missing with large pneumatization of maxillary sinus, sinus elevation is essential to keep the implant survival higher. As well known, sinus elevation has sometimes serious complication as for chronic sinusitis by operative infection and sinus membrane rupture derived from operation failure. To prevent the bone resorption of alveolar process and doing sinus elevation procedure, the immediate replacement of maxillary molar is recommended. To do this procedure, CT diagnosis is important to define the existence of hard lamellar bone tissue above the sinus floor and to alveolar septa to enable cortical bone support of implant. By this procedure, the desired result is gained for maxillary molar implant superstructure. |


Japanese Invited Speakers

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title/ Abstract |
|-------|---|--|--|
| 3. | Dr. Tetsu TAKAHASHI,  | Division of Oral and Maxillofacial Surgery, Tohoku University Graduate School of Dentistry, Sendai Japan Email tetsu@dent.tohoku.ac.jp | Title: Implant-supported prosthesis after reconstruction of the mandible with free fibular flap using 3D CAD/CAM models and cutting guides Abstract: For the reconstruction of the mandible, a surgical guide is fabricated to aid the repositioning of the mandibular segments in their original locations, and a reconstruction bone plate is provided to support the fibula free flap. Final implant-supported prosthesis was fabricated after the reconstructed mandible. In all steps of the whole procedures, we use 3D CAD/CAM models and cutting guides. |


Japanese Speakers (General Slot)

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title |
|-------|--|--|---|
| 1. | Dr. Takao WATANABE, DDS, PhD  | Visiting Professor, Kanagawa Dental University President of Medical Corporation Keiseikai Email keiseikai@kosesika.or.jp | Title: A long-term case of one stage maxillary sinus floor elevation by a new concept Abstract: Background: Our animal experiments reported that ① surgical stimulation to lift the sinus membrane induced a reactive bone formation from the sinus wall, if bone substitutes were not used in the space under the lifted membrane. However, it was largely absorbed in the long term, ② if the implant was an HA coating implant, the new bone was osseointegrated with HA of the implant surface, and ③ the osseointegrated new bone with HA remained on the implant surface for a long time, even if most of the new bone was absorbed. We created a new concept of one stage sinus floor elevation using HA coating implant without bone substitutes at the site where available bone volume remains over 1mm at least. Purpose: This report shows a case of SFE using the new concept and introduces the usefulness and availability. Case: 56 years old, female. First visit: 12th May 2008. Complainant: The loosening of the right upper first molar is severe, so that it is difficult to eat. In 2008, a one-stage maxillary sinus floor elevation (SFE) by a new concept was performed at the right upper first molar with an available bone volume of 1.2 mm and a HA implant was placed along the inner wall in the space under the lifted sinus membrane by lateral approach. The superstructure was set 7 months later. In 2019, 11 years later, the second implant treatment was done at the missing teeth lost after the first treatment. The implant stabilized very well and the peripheral gingiva appeared healthy. The apical part of the implant could be observed in the sinus through the lateral bone window when the second SFE was applied at the neighboring teeth due to periodontal disease. The sinus membrane covering the implant was thin and easily re-detached and lifted without breaking. The figure of the membrane looked to be similar to the membrane covering on the placed HA implants as in our animal studies. Therefore, a new bone osseointegrating with HA may remain on the implant surface. Discussion and conclusion: It is considered that the implant in this case may keep the long-term stability due to osseointegration with pre-existing bone of the sinus floor alveolar bone and with new bone remaining implant surface. This case may indicate the availability of SFE using the new concept |

Japanese Invited Speakers

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title/ Abstract |
|-------|---|---|---|
| 5 | Dr. Takahiro KANNO, DDS, FIBCSOMS, FIBCSOMS ONC/RECON, PhD  | Department of Oral and Maxillofacial Surgery, Shimane University Faculty of Medicine & Maxillofacial Trauma Center, Shimane University Hospital Izumo Shimane, JAPAN Email: tkanno@med.shimane.ac.jp | <p>Title: Japanese New Frontier in Digital -Computer-Assisted Oral Tumor Resection and Reconstruction</p> <p>Abstract: Recent innovations in the era of digital dentistry, such as computer -assisted surgical planning and intraoperative navigation, could improve the efficacy, precision, and predictability of surgical treatments of such oral tumor, oral cancer resection and oral -maxillofacial reconstruction. Given the developments in high -definition imaging and three -dimensional (3D) printing, the bioengineer and the surgeon can together visualize the tumor on a screen and print a restorative prototype that reflects the individual needs of the patient. The precise location of osteotomy for segmental or marginal mandibulectomy can be determined and translated to the theater as 3D -printed cutting guides, which greatly improves efficiency and accuracy. In addition, the contour and dimensions of the new defect can be transferred to donor sites, such as the fibula or the iliac crest. Another surgical guide can be used when harvesting and shaping donor tissue for the recipient area. Furthermore, the manufacture of individualized reconstruction plate systems is now possible. In July 2020, the Japanese National Health Insurance commenced coverage of computer -aided patient-specific mandibular reconstruction plate system for cases with advanced benign and malignant pathologies. We immediately embraced this technology into our oral tumor patients as Japanese new frontier. Here, we would like to present the workflow associated with the resection of aggressive oral cancers and benign oral tumors such as ameloblastoma using the virtually precisely planned cutting guides and the individualized patient-specific reconstruction plate system with/without vascularized flap reconstructions such as fibula flap/pectoralis major myocutaneous flap for oral -maxillofacial reconstruction. We have applied this innovative novel system for seven advanced oral cancer and oral tumor patients so far. I am greatly honored and happy to share and discuss with you, SASOMI active surgeons, on "New Frontier in Digital -Computer-Assisted Oral Tumor Resection and Reconstruction".</p> |

Japanese Invited Speakers

| SI No | Name of Japanese Delegate | Affiliation | Presentation Title/ Abstract |
|-------|---|--|--|
| 4. | Dr. Yasuhiro Kizu, DDS., PhD  | Director, Oral & Maxillofacial Care Clinic Yokohama Kizu Dental Clinic Clinical Senior Associate Professor Tokyo Dental College Email: kizu@kizu-dental.jp | <p>Title: Effectiveness of Static and Dynamic navigation for Dental Implant placement</p> <p>Abstract: Dental implant is a predictable prosthetic treatment option for missing teeth. However, with the development of implant technology, there are also various complications. In the surgery time, complications are perforations and damage to particular anatomical structures. Postoperative complications are such as aesthetic problems and peri -implant inflammation because of wrong implant position, and even implant failure.</p> <p>Computer-aided implant surgery, based on CT image data navigation, was introduced into the field of dental surgery to improve the accuracy of implant placement and avoid complication. This contains a static and dynamic navigation. A static navigation is based on the use of a computer- aided manufacturing to surgical template. It is the operator plans the position of the implants in software and then this direction is replicated in a surgical template. A dynamic navigation is possible to change the position of the implants during surgery because the use of track the CT of the patient in real time and done free -hand following the position of the drill on a monitor.</p> <p>We have used the static navigation over 15 years, however the dynamic guide technique was used for many cases recently. In this time, I present about the effectiveness of these navigation techniques for dental implant placement</p> |