

Expressions

Newsletter of the HKU Faculty of Dentistry



Faculty of Dentistry
The University of Hong Kong

35 Years
Advancing Oral Health & Well-being



World's No.1 Dental School
QS World University Rankings by Subject 2017



Faculty double happiness

Celebrating world-class dentistry in 35th anniversary year



ISSN 1997-356X



Faculty of Dentistry
The University of Hong Kong

35 Years
Advancing Oral Health & Well-being

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Advancing Oral Health &
Well-being



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top cut

top - elevated

iso diagram
45, 90, 180
0 x 10

The Museum of Contemporary Art Los Angeles March 17-June 10

Looking Forward to the Next 35 Years

As we enter 2018 with new goals and renewed commitment and vigour for existing goals, we can also take stock of the past 12 months and feel proud of all our accomplishments so far.

The year 2017 marked the 35th anniversary of the Faculty of Dentistry at The University of Hong Kong, as highlighted in this issue of *Expressions*. It was a delight to welcome so many special guests, including the HKSAR Chief Executive, distinguished scholars, and past Faculty Deans, to our 35th Anniversary celebrations on 23 November 2017.

The added accolade of being ranked the world's top dental faculty for the second year in a row by the **QS World University Rankings by Subject** was a wonderful recognition that the Faculty has become one of the premier institutions of teaching, research, and service in dentistry.

The global dental faculty ranking system started only 3 years ago, and our positions of second, first, and first again reflect the outstanding contributions of all staff and students over the years. Their accumulative efforts have helped raise our global reputation and allowed us to continue attracting talented staff and students from all over the world.

I wish to take this opportunity to praise and sincerely thank all staff and students of the Faculty, past and present, as well as all friends and supporters of the Faculty, near and far, including the professional community, international academic circle, industry, donors, and members of the public.

It is fitting that the traditional precious material for 35th anniversaries is the emerald, which symbolises unity and friendship.

Together, we have worked hard to make the Faculty's dreams a reality in the past 35 years. **Together**, we will continue to strive for outstanding performance in dentistry in years to come.

Happy New Year!

Professor Thomas F Flemmig
Kingboard Professor in Advanced Dentistry
Dean, Faculty of Dentistry
The University of Hong Kong



35th Anniversary Party

The HKU Faculty of Dentistry hosted a *35th Anniversary Gala Dinner Cum Celebration of World's No. 1 Dental Faculty* on 23 November 2017 at the Harbour Grand Hong Kong. Officiating at the gala dinner ceremony were **Mrs Carrie Lam Cheng Yuet-ngor**, HKSAR Chief Executive and HKU Chancellor; **Prof Sophia Chan Siu-chee**, HKSAR Secretary for Food and Health; **Prof Arthur Li Kwok-cheung**, HKU Council Chairman; **Prof Peter Mathieson**, HKU President and Vice-Chancellor; and **Prof Thomas Flemmig**, Dean of the HKU Faculty of Dentistry.

“The ambition of the Faculty goes well beyond teaching and research; indeed it is the close engagement with the local community and the world at large that truly

distinguishes HKU Faculty of Dentistry,” said the HKSAR Chief Executive. “The whole Faculty’s staff and students are actively engaged in continuous community projects and are committed to promoting oral and dental health in society.”

Dinner entertainment was provided by talented alumni and students, including a solo violin performance, a *cappella* singing, and two magic shows.

Among the over 350 invited dinner guests were government officials, world-renowned scholars, alumni, dental professionals and researchers, and prominent business leaders. The event was also attended by the Faculty’s former Deans, academic staff, and undergraduate and postgraduate students.





Anniversary Symposium

Before the *35th Anniversary Gala Dinner Cum Celebration of World's No.1 Dental Faculty*, a whole-day *Anniversary Symposium* was held on 23 November 2017 at the Prince Philip Dental Hospital. In the first part of the symposium, six alumni and former staff shared their insights and rich experiences in various dental disciplines. They were **Dr Ansgar Cheng**, **Dr Franklin She**, **Dr Haston Liu**, **Dr Alex Chan**, **Dr Lily Tong**, and **Prof Esmonde Corbet**, who are specialists in Prosthodontics, Orthodontics, Family Dentistry, Endodontics, Paediatric Dentistry, and Periodontology, respectively. Their presentations covered not only developments, challenges, and opportunities in these disciplines, but also treatment considerations, legislative concerns, and voluntary dental service.

The highlight of the symposium was a Deans' Discussion Forum, in which invited former Deans of the Faculty—**Prof Stephen Wei**, **Prof Frederick Smales**, and **Prof Lakshman Samaranayake**—together with **Prof Edward Lo**, interim Dean in 2014, joined **Prof Thomas Flemmig**, current Dean, in a special on-stage panel. The stage panel shared their views on the topic of “35 years of excellence, what's next?” The symposium was attended by over 180 participants comprising alumni, academic staff, students, and local and overseas dental professionals including **Prof Keiichi Sasaki**, Dean of the Tohoku University Undergraduate and Graduate Schools of Dentistry, Tohoku University, Japan, and **Prof Paul Coulthard**, Dean of the School of Dentistry and Professor of Oral and Maxillofacial Surgery, University of Manchester, United Kingdom.



Milestones: First 35 Years



1982

The Faculty's BDS degree is granted recognition by the UK General Dental Council

1985

The BDS programme is extended to 5 years

1992

The Faculty takes on a unitary, matrix structure with constituent Disciplines instead of separate departments

1998

Simulation Laboratory, one of the best equipped in the world, is established

2003

Advanced Endodontics Centre is established

1984

- The first batch of students graduates from 4-year-4-month BDS course
- Taught postgraduate courses are offered

1990

Cleft Lip and Palate Centre is established

1997

Problem-based learning (PBL) is introduced to the BDS curriculum

1999

The HKU Faculty of Dentistry is established on 1 July





The Faculty initiates three themed research groups and reorganises laboratory facilities as the Centralised Research Laboratories

ITC Center of Excellence in Implantology is established

The second HKU Endowed Professorship in Dentistry (Modern Dental Laboratory Professorship in Clinical Dental Science) is established

Virtual Reality (Haptics) Training Unit is established

The Faculty is ranked the top dental school by the QS World University Rankings by Subject 2017

The third HKU Endowed Professorship in Dentistry (Kingboard Professorship in Advanced Dentistry) is established

The Institute for Advanced Dentistry is established

2006

2010

2012

The Faculty is ranked second among dental schools in the QS World University Rankings by Subject 2015

2016

AO Craniomaxillofacial Surgical Training Centre is established

The first HKU Endowed Professorship in Dentistry (Tam Wah-Ching Professorship in Dental Science) is established

The Centre for Advanced Dental Care is established

BDS programme is extended to 6 years

2015

The Faculty is ranked the top dental school by the QS World University Rankings by Subject 2016

The First Dental Infection Control Teaching Suite in Hong Kong is set up at the Faculty

The world's first Implant Dentistry Massive Open On-line Course (MOOC) is launched

2004

2009

2011

2017





Institute for Advanced Dentistry

The Institute for Advanced Dentistry was established in 2017 to celebrate the HKU Faculty of Dentistry's 35th anniversary. Consisting of a clinical research centre and a multispecialty clinic, the Institute is a centre of excellence for the management of complex and severe oral conditions. From 2018, it will provide postgraduate dental education, foster clinical innovation, support applied research, and offer continuing dental and professional education to practising dentists and specialists. Furthermore, the Institute will be a referral centre and provide multispecialty advanced dental care to patients with complex and/or severe oral conditions.

The Institute is targeted to have a total of more than 100 Master degree students in 9 disciplines by academic year 2019-20. The Institute will also provide important learning opportunities for undergraduate students. Bachelor of Dental Surgery students will be exposed to and learn

about comprehensive advanced dental care and patient management in collaboration with dental specialists.

Most importantly, patients will receive affordable specialty level care while providing opportunities for clinical innovation and applied research. Faculty staff together with postgraduate students will be able to assess novel diagnostic approaches and treatments and create high-level evidence for clinical care.

The Institute for Advanced Dentistry will provide a platform on which the Faculty can expand its reach in the region, China, and the world, while enhancing training for dentists and contributing to the improvement of the Hong Kong health care system.

To refer patients, please contact the Multispecialty Clinic by
Telephone: +852 28590326; **Fax:** +852 25496708;
Email: cadinfo@hku.hk

My Road to Hong Kong

Prof Peter Thomson



I am excited to have joined the **HKU Faculty of Dentistry** on 1 October 2017 as **Clinical Professor in Oral & Maxillofacial Surgery (OMFS)**.

I first became interested in the Asia-Pacific region soon after receiving my training in the UK.

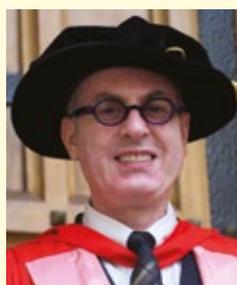
I gained Fellowships in Dental Surgery from the Royal College of Surgeons of England (1990) and Ireland (1990) and a Fellowship in Surgery from the College of Surgeons in Edinburgh (1992), specialising in OMFS and Head & Neck Oncology. In 1992, I visited academic colleagues in Japan for collaborative research, before returning to the UK to complete MSc and PhD degrees in epithelial biology and cancer research at Manchester University, where I was Lecturer for 6 years, before moving to Newcastle in 1996 as Professor of OMFS.

Since then, I made many trips to Asia. In 2014, I gained a Manchester Higher Doctorate (DDSc) for oral oncology research and was also appointed Visiting Professor at the National University of Singapore. In 2016, I earned an MD from the University of Bath for my thesis on interventional management of potentially malignant disorders. In the same year, I took a leap of faith and joined the University of Queensland's School of Dentistry as Academic Clinical Director. As so often happens in life, an unexpected opportunity to lead OMFS at HKU's Faculty of Dentistry came very shortly after—a once in a lifetime opportunity—and so here I am!

I hope in the years ahead to help guide OMFS to even greater academic and clinical success and to work towards HKU becoming a global leader in oral oncology research. Perhaps the road has been a long one, but the true adventure feels as if it is just beginning!

Completing a Circle

Prof Michael Burrow



The twists and turns of life can be unexpected at times. When I left Hong Kong 2 and a half years ago, I never anticipated I would make a U-turn and come back. However, keeping close contacts with colleagues and seeing the opportunity to develop my career in prosthodontics, I took the chance.

My academic career started over 20 years ago at the Dental School in Melbourne by convening the removable prosthodontics course. After qualifying as a specialist, I worked in restricted practice in prosthodontics before going to Japan to complete a PhD. I then returned to Australia to take up the convenorship and became a visiting specialist prosthodontist at the Royal Dental Hospital of Melbourne, so my specialty training has always remained a core clinical interest.

The advent and development of adhesively retained restorations and prostheses and the problems associated with bonding of materials such as zirconia led to the natural progression of intertwining my research and clinical interests. Hence, taking up the **Clinical Professor in Prosthodontics** position in the **HKU Faculty of Dentistry** has given me the opportunity to make a contribution to education and research in my field of specialty training and complete the circle of my academic career, which commenced as Lecturer in Removable Prosthodontics.

I am very much enjoying my return to make a further contribution to the Faculty as well as the Prosthodontics Discipline, not to mention coming back to a part of the world for which I have a passion.

Always Learning

Prof Michael Bornstein



My major goal at the **HKU Faculty of Dentistry** as **Clinical Professor in Oral and Maxillofacial Radiology** is to establish Oral and Maxillofacial Radiology as a centre of competence in education, training, and research. I'm very much looking forward

to this challenging and fruitful experience. In addition, the Faculty's international mix certainly will enable me to learn from my colleagues, and I can also share my knowledge with them. My philosophy has always been that you have to try to learn something new every day. This will keep you from falling into a routine and will help you to get better in what you do every day.

I myself have always been interested in dentistry, since my childhood, when I underwent lengthy orthodontic treatment. Most children would be frightened from oral check-ups

or treatment. However, I found that the visits to the orthodontist were fascinating and wanted to find out more.

After graduating in dental medicine at Basel, Switzerland, I did my postgraduate training in oral surgery in Basel and Bern. After becoming board-certified as an oral surgeon, I focused my research in oral medicine and dentomaxillofacial radiology. Clinical work and research in dental radiology allows me to share knowledge with specialists in dentistry and medicine and is both challenging and awarding.

At the HKU Faculty of Dentistry, I will focus not only on interdisciplinary collaboration in teaching, patient care, and research, but will also explore the possibilities and limitations of 3D imaging by using cone beam computed tomography (CBCT). I will also investigate radiographic imaging for diagnostic purposes in various fields of dental medicine, in close collaboration with colleagues in medical radiology.

Continuing Dental Education Seminars 2018

Date	Speaker	Topic
24 Jan 2018	Dr Prasanna Neelakantan	Endodontics for the general dentist "Expanding the horizons by re-emphasizing basic concepts"
28 Feb 2018	Prof Michael Bornstein	Novel low-dose protocols for 3D imaging in oral and maxillofacial radiology: a game changer?
28 Mar 2018	Dr Nikos Mattheos	Dental Implants in the aesthetic zone: Decision making in uncharted waters!
18 Apr 2018	Dr Dominic Ho	An update on dental recording keeping and its impact to daily practice
16 May 2018	Prof Peter Thomson	Oral Potentially Malignant Disorders – An Update
20 Jun 2018	DR Hamdi H Hamama	An Interesting Cariology Story: From "Extension for Prevention" to "Prevention of Extension"

Date: Jan to Jun 2018, Wednesday (*unless otherwise specified*)
 Time: 6:30 - 8:00 pm
 Venue: Lecture Theatre I, Prince Philip Dental Hospital, 34 Hospital Road, Hong Kong, China
 CME/CPD: 1.5 points per seminar (to be confirmed)
 Fee: HK\$250 per seminar; Season Ticket: Only HK\$800 for the whole season (6 seminars)
 Registraton: Please visit CDE website at <<http://facdent.hku.hk/cde>>

Faculty MOOC Commended

The HKU Faculty of Dentistry received an Honourable Mention for its Massive Open Online Course (MOOC) in Implant Dentistry at a national MOOC awards ceremony held on 20-21 July 2017.

The Greater China MOOC Symposium is an annual platform for academics and industry professionals to discuss recent progress in education using MOOCs and to identify best MOOC teaching practices. This year's event, hosted by the Chinese University of Hong Kong, included the much-anticipated annual MOOC Awards, which recognise excellence and promote the development of high-quality MOOCs in academia, industry, and enterprises.

At the awards ceremony, the Faculty's MOOC in Implant Dentistry



<<https://www.coursera.org/learn/implant-dentistry#>> was named

a finalist in the category of "Design and Quality" and was one of two HKU MOOCs to receive an Honourable Mention. As MOOCs are now reaching maturity as an educational innovation, this award is a timely acknowledgement of the Faculty's efforts in education technology and serves as encouragement to continue and expand HKU's on-line footprint even further.



Faculty Reaches World's Top 1%

Prof Michael Bornstein, Clinical Professor in Oral and Maxillofacial Radiology at the HKU Faculty of Dentistry, has been included in the world's top 1% scholars by Clarivate Analytics' Web of Science. Every year, HKU commissions Clarivate Analytics (formerly the Intellectual Property & Science business of Thomson Reuters) to conduct an online search to identify the top 1% scholars at HKU. The database adopted for this exercise is Essential Science Indicators (ESI), which uses citation data from journal articles indexed in the **Web of Science** in 22 subjects.

GRF Grant Successes

Five faculty staff of the HKU Faculty of Dentistry have won research grants, totalling **HK\$4.27 million**, from the General Research Fund of the Hong Kong Research Grants Council for research projects starting in 2017-18. Congratulations go to the following principal investigators for their successful grant bids and research initiatives:

- **Dr Waruna Dissanayaka** (*Research Assistant Professor in Biomedical and Tissue Engineering*)
- **Dr Gillian HM Lee** (*Clinical Assistant Professor in Paediatric Dentistry*)
- **Prof W Keung Leung** (*Clinical Professor in Periodontology*)
- **Prof Edward CM Lo** (*Chair Professor of Dental Public Health*)
- **Prof Chengfei Zhang** (*Clinical Professor in Endodontics*)

Seven Impact Projects to Start

The HKU Faculty of Dentistry has been given the go-ahead to launch seven Impact Projects to help the local and wider community. The following academic staff received knowledge exchange (KE) funding for Impact Projects in 2017-18 under HKU's KE Funding Scheme for Impact Projects:

- **Prof Michael Bornstein** (*Clinical Professor in Oral and Maxillofacial Radiology*)
- **Dr Michael Botelho** (*Clinical Associate Professor in Prosthodontics*)
- **Prof Chun-hung Chu** (*Clinical Professor in Family Dentistry*)
- **Prof Han-sung Jung** (*Professor in Oral Biosciences*)
- **Dr Mike YY Leung** (*Clinical Associate Professor in Oral and Maxillofacial Surgery*)
- **Prof Edward CM Lo** (*Chair Professor of Dental Public Health*)
- **Dr Prasanna Neelakantan** (*Clinical Assistant Professor in Endodontology*)

Each of the grant winners has been fully funded with HK\$100,000. They will also each receive a Faculty KE Incentive Award of HK\$5000 for their successful applications.

The HKU KE Funding Scheme for Impact Projects aims to support staff members to undertake projects that create social, economic, environmental or cultural impacts for industry, business or the community, by building on expertise or knowledge in the University. Such projects are expected to benefit non-academic communities beyond Hong Kong, and to involve the collection of evidence for corroboration and evaluation of impacts arising from a research or KE project.

Staff Appreciation

To recognise the hard work of the Faculty's part-time and honorary teaching staff during 2017, a *Thank You Party* was held in The Lounge at the Prince Philip Dental Hospital on 8 June 2017. A total of 60 guests attended the event, which consisted of a reception, dinner, and a certificate and souvenir presentation ceremony.

"We would like to express our gratitude for taking time from your busy schedules to teach our students," said **Prof Thomas Flemmig**, HKU Dean of Dentistry. "This is a selfless act that greatly adds value to our students' education."



This was the first such *Thank You Party*, and it is hoped that it will be an annual event in the future to show appreciation to part-time and honorary staff for contributing to the Faculty's teaching and learning each academic year.



HKU Information Day 2017

A team of BDS students volunteered at the HKU Information Day on 4 November 2017. They introduced the Faculty and the Bachelor of Dental Surgery curriculum to prospective students, both at HKU's main campus and at the dental campus at the Prince Philip Dental Hospital. Visitors received leaflets and dental souvenirs, and were able to ask questions about the dental degree throughout the day.

Student volunteers also gave practical demonstrations at the dental hospital, such as scaling and polishing, as well as introductions to the Simulation Laboratory and problem-based learning tutorials used at the Faculty. Academic staff also took part on Information Day, with **Dr Mike YY Leung**, **Dr Mani Ekambaram** and **Dr Andy WK Yeung** giving an admissions talk at the Prince Philip Dental Hospital.



Staff Moves

The Faculty bids a warm welcome to:

Prof Peter Thomson, Clinical Professor in Oral and Maxillofacial Surgery

Ms Liang Zhang, Instructor in Dental Technology in Prosthodontics

...And a fond farewell to:

Prof Nabil Samman, Clinical Professor in Oral and Maxillofacial Surgery

Mr Wayne Robinson, Instructor in Dental Technology in Prosthodontics

Dr Tianfan Cheng, Postdoctoral Fellow in Periodontology

Dr Don Epasinghe, Postdoctoral Fellow in Applied Oral Sciences

Mr Kwok-on Hui, Technical Manager in External Relations & Knowledge Exchange Unit

Mr Wing-fai Chong, Senior Driver in Faculty Office

Friendly Festive Football



A Friendly Alumni Soccer Match between the **HKU Faculty of Dentistry** and **HKU Li Ka Shing Faculty of Medicine** was held on the evening of 21 October 2017 at the Stanley Ho Sports Centre in celebration of the 35th Anniversary of the HKU Faculty of Dentistry.

Officiating at the kick-off ceremony were **Dr the Hon Pierre Chan**, Member of the Legislative Council (Medical); **Prof Wai-lun Law**, Associate Dean (Clinical Affairs), HKU Li Ka Shing Faculty of Medicine; and **Prof Thomas Flemmig**, Dean, HKU Faculty of Dentistry.

More than 50 alumni, staff, and students of both faculties joined the anniversary football game. Both teams demonstrated their soccer professionalism

and put on a great performance. The score was 3-2 to the Faculty of Dentistry, and we look forward to more interfaculty matches and sport events in the future.







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Reference: 1. Baysan A, Lynch E, Ellwood R et al. Caries Res 2001;35:41-46.

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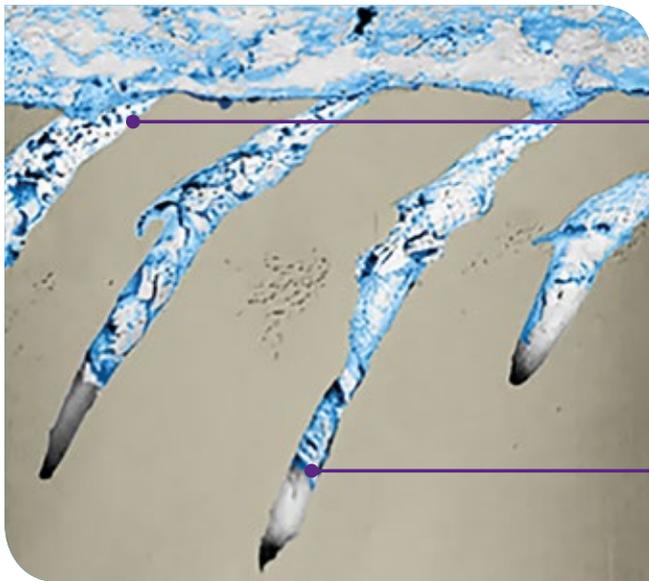
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Stannous fluoride extends up to 80 µm inside the tubule network⁴

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- Starts working from the first brush⁵
- Brushing sensitive areas delivers clinically proven relief in just **60 seconds**^{5,6}
- After 8 weeks, Sensodyne Rapid Relief provided a 64% reduction in dentine hypersensitivity⁷

As many as **1 in 3** people suffer from dentine hypersensitivity¹⁴



Long-term management with sensitivity toothpastes can lead to **improvements in oral health-related quality of life**¹⁵

Recommend new Sensodyne Rapid Relief for fast relief and long-lasting protection from sensitivity^{†7}



STEM-EDS = Scanning Transmission Electron Microscope-Energy-Dispersive Spectroscopy. DSIMS = Dynamic Secondary Ion Mass Spectrometry. FIB-SEM = Focussed Ion Beam-Scanning Electron Microscope. FIB-SEM/EDS = Focussed Ion Beam-Scanning Electron Microscope/ Energy Dispersive Spectroscopy.

*vs. toothpaste containing 0.454% stannous fluoride and lower polymer level.
†with twice-daily brushing.

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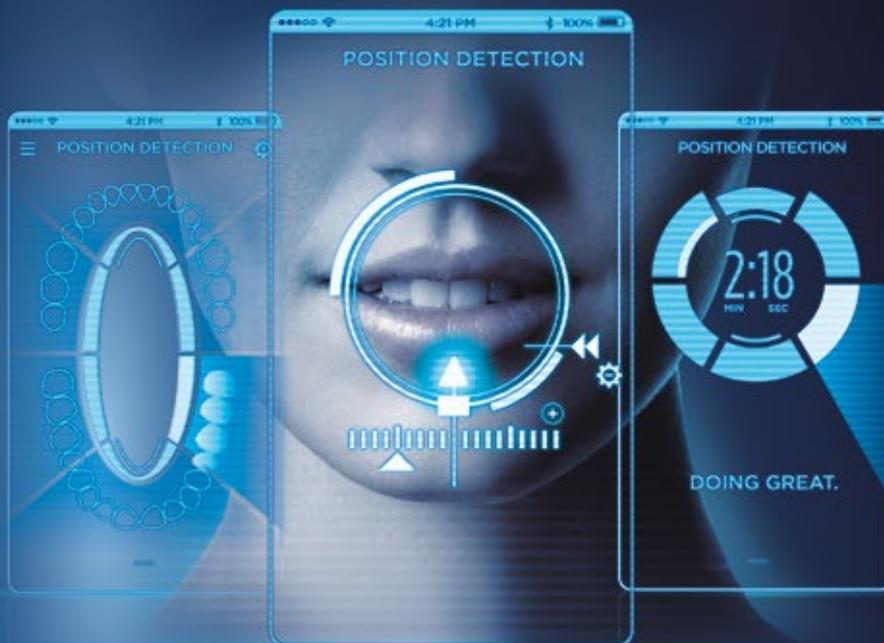


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* Research result on dentist with broadly representative worldwide, conducted by independent research organization appointed by P&G in Apr.2013-Jan.2015

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