## New Normal, Axial Langth Measurement Module

In recent years, cataract surgery has come to be described as reflective cataract surgery, and higher precision and postoperative patient satisfaction are required. Thus, it is extremely important to accurately measure the axial length of the eye, use an appropriate intraocular lens power calculation formula, and select an intraocular lens with characteristics that match the patient's wishes. In other words, a better understanding of the characteristics of the ocular optical system and the principles of measurements will lead to more accurate and reproducible axial length measurements and better surgical outcomes.

The axial length of the eye has a significant impact on the determination of the power for the intraocular lens inserted into the eye during the cataract surgery. ARGOS<sup>®</sup> which was released in 2020 is an ocular axial length measuring instrument based on the segment method, which is completely different from the conventional instruments. Errors in axial length measurement can directly cause postoperative refractive error, leading to patient dissatisfaction.

In this session, three speakers who have actively introduced this technology will talk about its features and advantages, as well as the future of axil length measurements. First, Dr. Goto will talk about the differences between conventional and segmental methods of measuring axial length. This will be followed by Dr. Kojima, who will discuss the use of various technologies to improve postoperative refractive accuracy. Finally, Dr. Shiba will discuss the effectiveness of ARGOS<sup>®</sup> and VLynk. We hope to take this opportunity to share the "New Normal" of cataract refractive surgery.



## Hiroko Bissen Miyajima, MD, Ph.D.

2003	Professor and Chair, Department of Ophthalmology,
	Tokyo Dental College Suidobashi
2000	Associate Professor,
	Department of Ophthalmology,
	Tokyo Dental College Suidobashi
1987	Instructor.
	Department of Ophthalmology,
	Keio University School of
	Medicine
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- Department of Ophthalmology, Bonn University School of Medicine
- 1981 Resident, Department of Ophthalmology, Keio University School of Medicine



So Goto, MD, Ph.D.

Characteristics and notes on segmental ocular axial length measurement module

2019-present	Postdoctoral Fellow, School of
2016-2019	Junior Research Associate, Laboratory for Retinal Regeneration, RIKEN Center
2014-2016	Graduate student, Laboratory for Retinal Regeneration, RIKEN Center
2013-2014	Clinical Fellow, Department of Ophthalmology, National Hospital Organization, Tokyo Medical Center
2010-2011	Resident Fellow, Department of Ophthalmology, Osaka University Graduate School of Medicine

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Takashi Kojima, MD, Ph.D. Takuya Shiba, MD, Ph.D.

~New Normal~ Technology for Improving Postoperative Refractive Accuracy

2017-Present	Project Associate professor, Department of
2012-2017	Ophthalmology, Keio University School of Medicine Director, Department of Ophthalmology, Gifu Red Cross Hospital Viciting Assistant Professor
2008-2009	Department of Ophthalmology, Keio University Chief Ophthalmologist, Department of Ophthalmology, Social Depurance Chukyo Hospital
2000-2008	Ophthalmologist, Social
1998-2000	Resident, Social Insurance Chukyo Hospital

## Accuracy of Ocular Axis Length Measurement and Availability of ARGOS® with VLynk

- 2019 Director, Roppongi Shiba Eye Clinic
- 2017 Associate Professor, Department of Ophthalmology, Tokyo Jikei University School of Medicine
- 2014 Director, Department of Ophthalmology, Tokyo Jikei University Third Hospital 2002 - 2003
  - Researcher, Department of Ophthalmology, the 6th university of Paris
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