

## + Number of Cataract Surgery

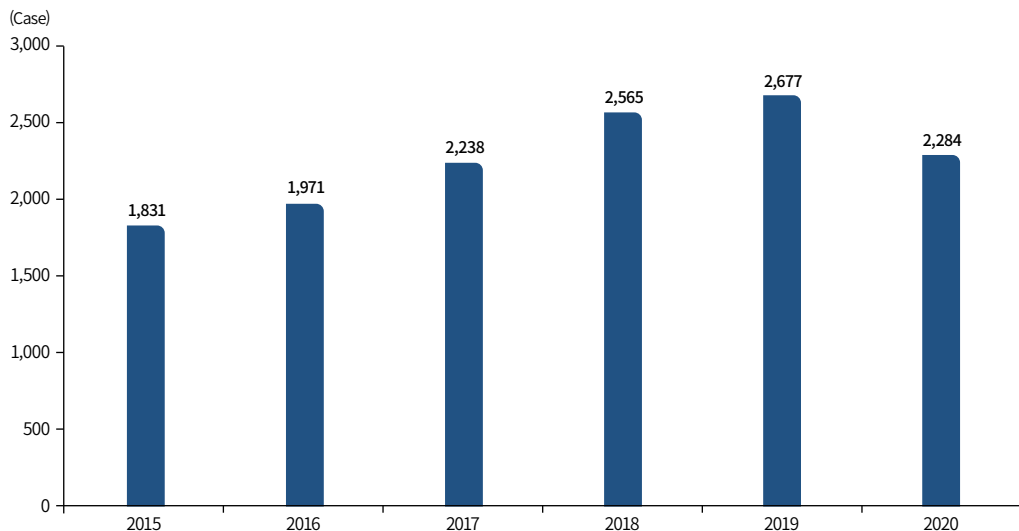
The number of surgeries for patients with cataract

### Definitions

- **Cataract:** Cataract is a disease where the crystalline lens becomes cloudy due to various causes such as aging, trauma, drug effect, or UV light. The result of which is lowered vision as well as various symptoms including light glare, double vision, and color anomaly, and in some cases, even glaucoma. Cataract can be surgically treated, and cataract surgery is a well-known procedure for vision improvement.

### Result

January 1, 2015 - December 31, 2020



### Interpretation

- The number of cataract surgeries has consistently operated 2,000 surgeries or more since 2017.

## + Incidence of Posterior Capsule Rupture/Tear

The proportion of the incidence of posterior capsule rupture/tear among all cataract surgeries



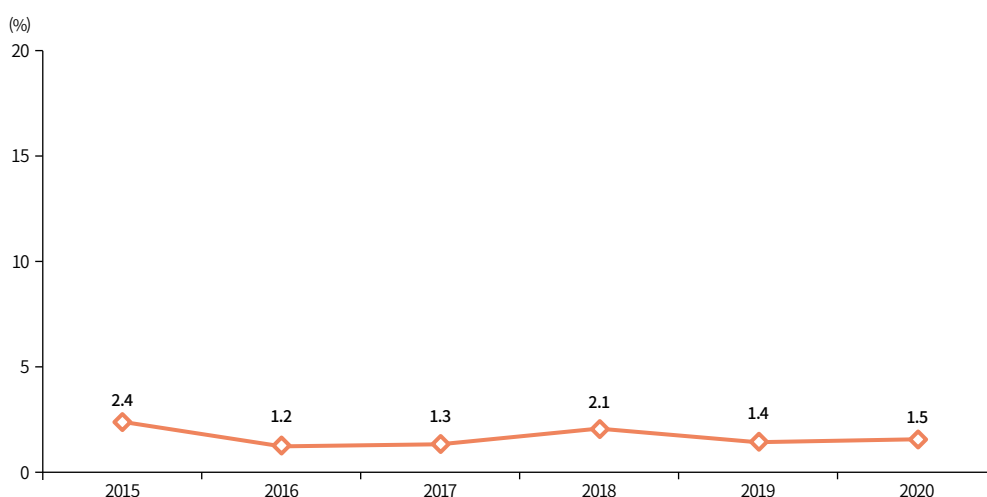
### Definitions

- ▶ **Posterior capsule rupture/tear:** A major complication that can arise during the cataract surgery. It is associated with surgical dexterity, severity of cataract, and any accompanying eye disease.



### Result

January 1, 2015 - December 31, 2020



### Interpretation

- ▶ SNUBH, as a superior general hospital, receives a large number of patients with high risk of posterior capsule rupture/tear; nevertheless, the incidence of the condition is similar to that reported by renowned overseas medical institutions (1.2-3.5%; the national average incidence reported in Korea is approximately 3.15%).

**Data source** SNUBH EMR (Electronic Medical Record), CDW (Clinical Data Warehouse)

- Relevant Research**
- 1) Intraoperative difficulties, complications and self-assessed visual function in cataract surgery. *Acta Ophthalmol.* 2018; 96: 592-599.
  - 2) Prevalence and Predictors of Ocular Complications Associated with Cataract Surgery in United States Veterans. *Ophthalmology* 2011;118:507-514.
  - 3) The Malaysian Cataract Surgery Registry: risk Indicators for posterior capsular rupture. *Br J Ophthalmol* 2017;101:1466-1470
  - 4) Clinical outcome of posterior capsule rupture/tear after cataract surgery *Journal of Korean Ophthalmological Society* 1998;39:2647-2652.

## + Incidence of Acute Postoperative Endophthalmitis

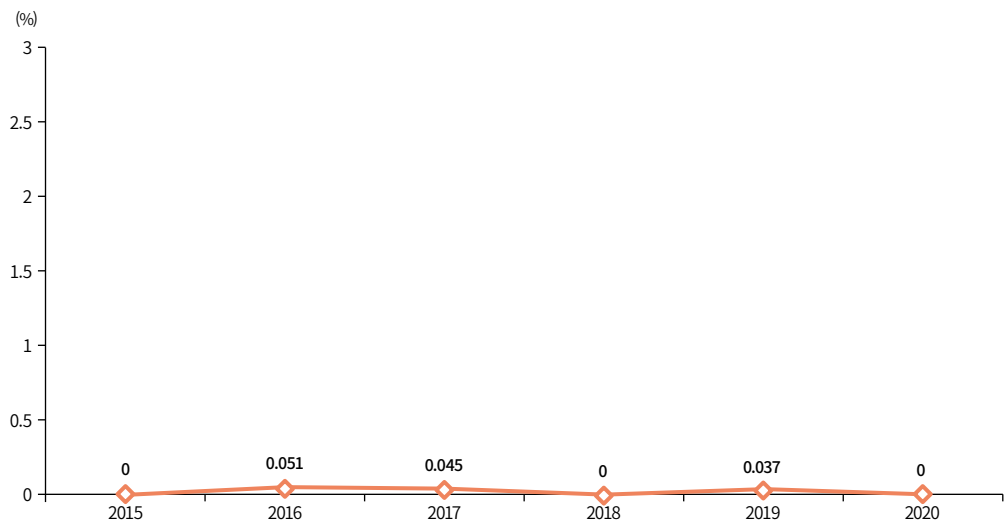
The proportion of the incidence of acute endophthalmitis among all cataract surgeries

### Definitions

- **Acute endophthalmitis:** The most serious complication that can arise after cataract surgery. It is an intraocular infection within 6 weeks after surgery.

### Result

January 1, 2015 - December 31, 2020



### Interpretation

- Postoperative endophthalmitis after cataract surgery is known to occur at the rate of 0.03-0.22% despite appropriate antibiotics use before and after surgery.
- Despite the annual consistent increase in cataract surgeries at SNUBH, the incidence of acute endophthalmitis has been maintained at a lower level than major reports from various other institutions.

**Data source** SNUBH EMR (Electronic Medical Record), CDW (Clinical Data Warehouse)

- Relevant Research**
- 1) Endophthalmitis after cataract surgery: epidemiology, risk factors, and evidence on protection. *Curr Opin. Ophthalmol* 2017; 28:67–72.
  - 2) Incidence of acute postoperative endophthalmitis after cataract surgery: A nationwide study in France from 2005 to 2014. *Ophthalmology*. 2016;123:1414–1420.
  - 3) Post-cataract surgery endophthalmitis: Brief literature review. *Journal of Current ophthalmology* 28 (2016) 101e105.