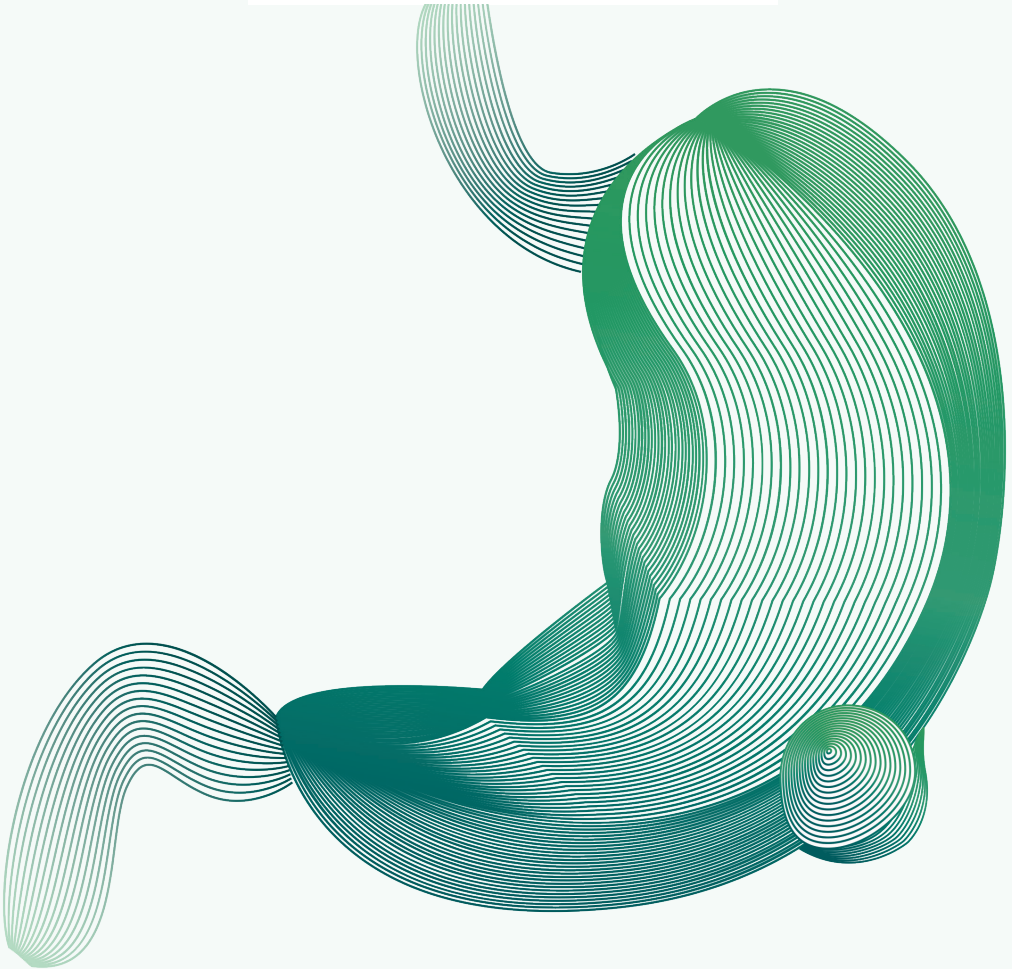


Cancer

**Gastrointestinal
Stromal Tumor**

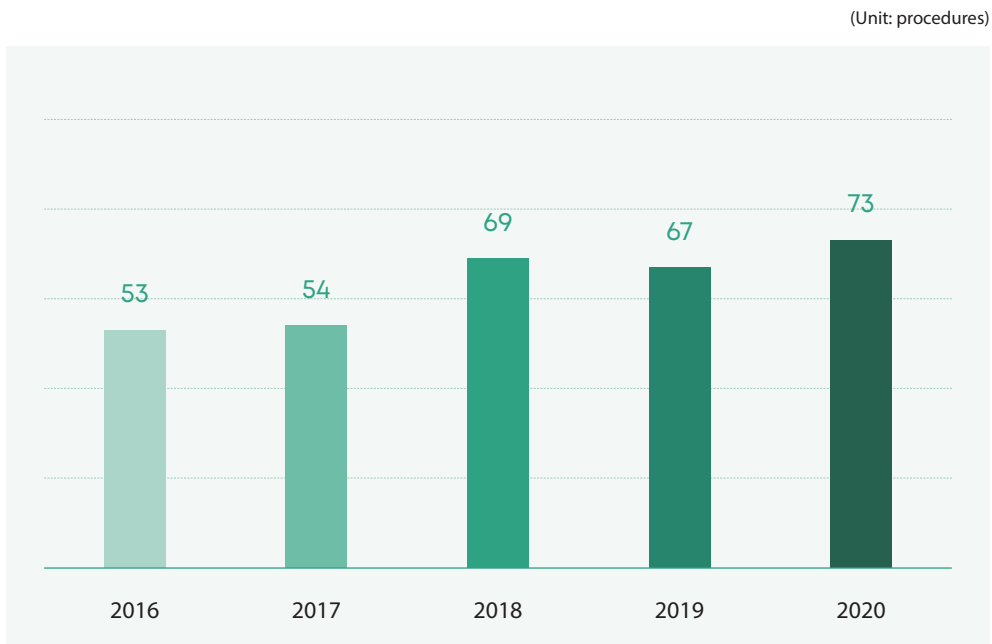


1

Annual number of GIST(gastrointestinal stromal tumor) surgery

Index definition Annual number of gastrointestinal stromal tumor (GIST) surgeries

Description The SNUH Gastrointestinal Surgery performed 50 to 70 GIST surgeries annually between 2016 and 2020, and the accumulative number of surgeries in 2020 was 300.



Calculation

Numerator

Number of GIST surgeries registered in the Gastrointestinal Surgery registry for the year

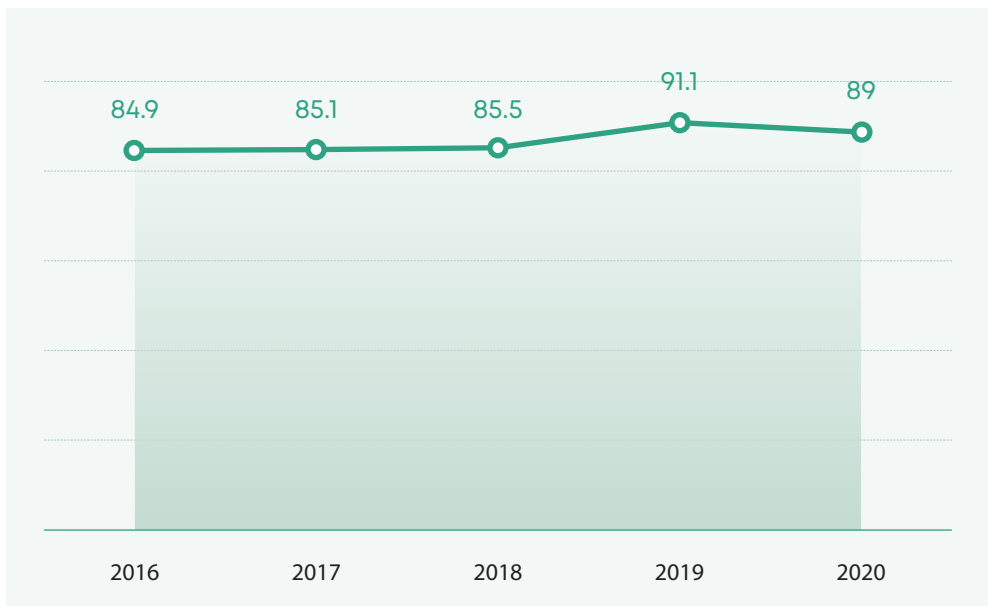
2

Proportion of minimally invasive surgery (laparoscopic or robot) of GIST(gastrointestinal stromal tumor)

Index definition Proportion of minimally invasive surgeries (laparoscopic or robot) among gastrointestinal stromal tumor (GIST) surgeries

Description The proportion of minimally invasive surgeries such as conventional laparoscopic surgeries and robot surgeries for gastric cancer. A high proportion of minimally invasive surgeries does not always mean positive. Based on the treatment guideline for GIST, minimally invasive surgeries are performed when complete resection is determined to be possible without residual cancer while not rupturing the tumor in the abdominal cavity.

(Unit: %)



Calculation

Numerator Number of laparoscopic or robot surgeries among GIST surgeries
Denominator Number of GIST surgeries registered in the Gastrointestinal Surgery registry for the year

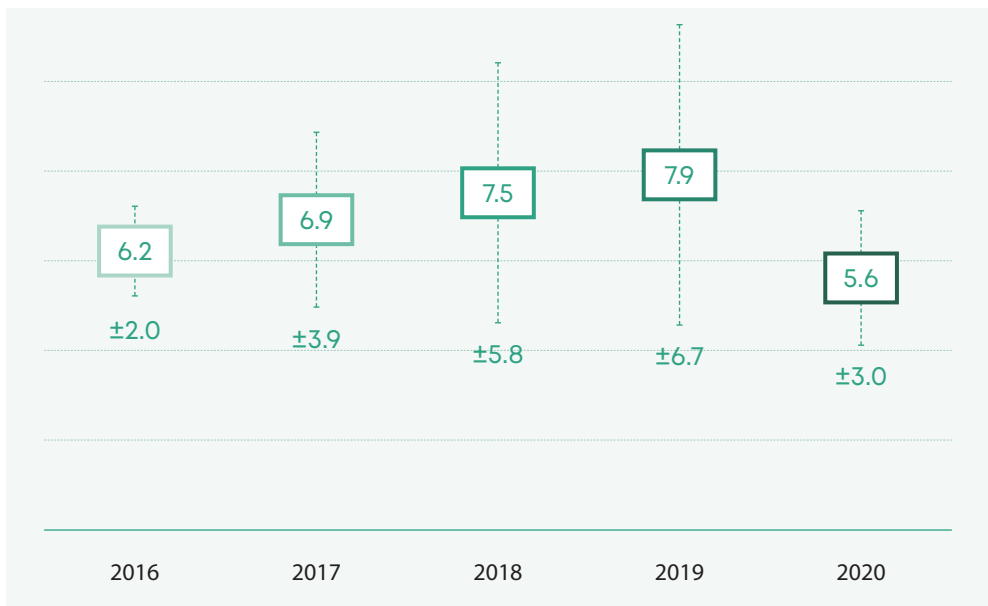
3

Postoperative hospitalization days of GIST(gastrointestinal stromal tumor) surgery(mean and SD)

Index definition Average hospitalization days from gastrointestinal stromal tumor (GIST) surgery to discharge

Description The average hospitalization days after GIST surgery was 6.2 days in 2016 and 5.6 days in 2020, and there were no significant changes.

(Unit: days)



Calculation

Numerator Postoperative hospitalization days of GIST (Discharge date to operation date / Reference operation date to the next operation date if there are more than two operations during the same hospitalization period)

Denominator Number of GIST surgeries registered in the Gastrointestinal Surgery registry for the year

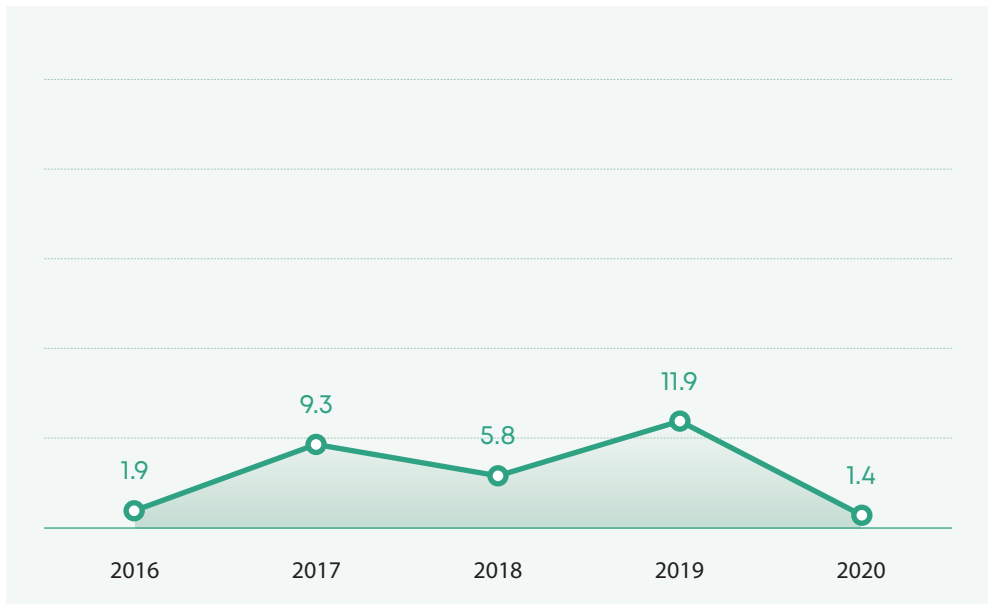
4

Crude incidence rate of postoperative 30-days in-hospital complications of GIST(gastrointestinal stromal tumor)

Index definition Crude incidence rate of postoperative in-hospital complications within 30 days after gastrointestinal stromal tumor (GIST) surgery

Description The mortality rate within 30 days after GIST surgery is 2 to 12%. The classification and degree of postoperative complications are reviewed together by professors, fellows, and residents at weekly meetings to ensure complications are not missed and accurately recorded.

(Unit: %)



Calculation Numerator Incidence of complications that are Grade IIIa or higher in the Clavien-Dindo classification during hospitalization within 30 days from GIST surgery

Denominator Number of GIST surgeries registered in the Gastrointestinal Surgery registry

Exclusion Numerator Incidence of complications that were not treated at SNUH

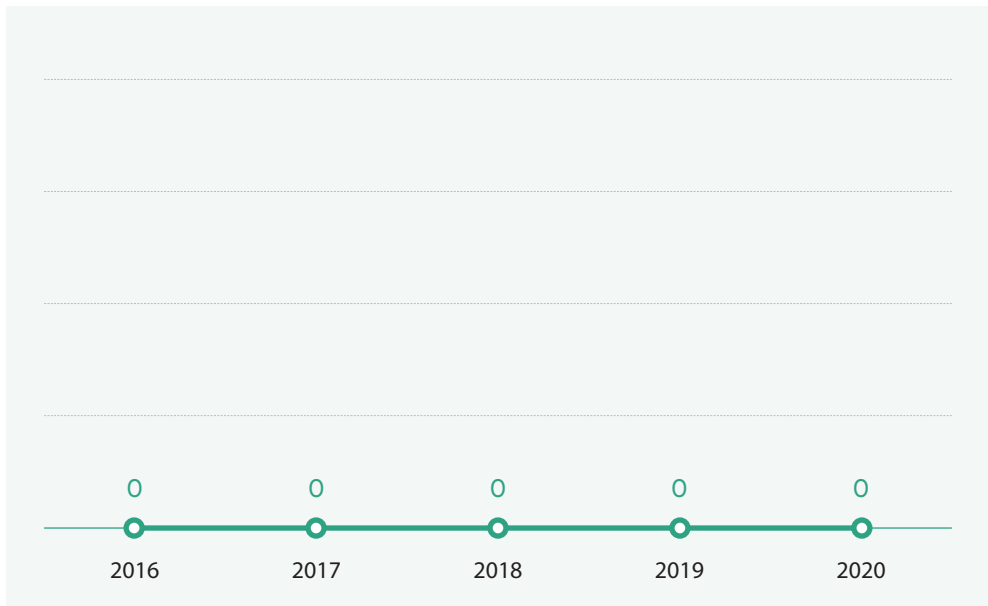
5

Postoperative 30-days crude mortality rate of GIST(gastrointestinal stromal tumor)

Index definition Crude mortality rate of gastrointestinal stromal tumor (GIST) patients within 30 days after surgery

Description There was no mortality within 30 days after GIST surgery between 2016 and 2020. Accumulative operative mortality rate was 0%.

(Unit: %)



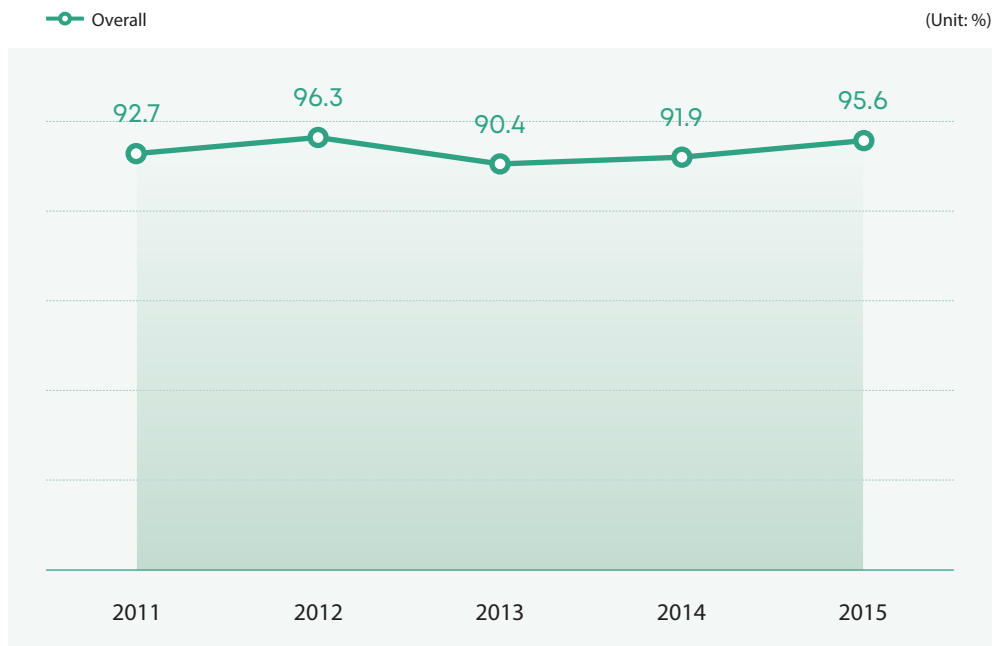
- Calculation**
 - Numerator** Mortality of patients within 30 days after GIST surgery
 - Denominator** Number of GIST surgeries registered in the Gastrointestinal Surgery registry
- Exclusion**
 - Denominator** Foreign nationals

6

Postoperative 5-years standardized survival rate of GIST(gastrointestinal stromal tumor)

Index definition Survival rate of patients for over 5 years after gastrointestinal stromal tumor (GIST) surgery (standardized and sex based on total gastric cancer surgeries in 2011)

Description The 5-year survival rate of patients who underwent GIST surgery between 2011 and 2015 was 90.4 to 96.3%.



Calculation **Numerator** Surviving patients excluding patients who passed away within 5 years after GIST surgery (operation date)

Denominator Number of GIST surgeries registered in the Gastrointestinal Surgery registry

Exclusion **Denominator** Foreign nationals