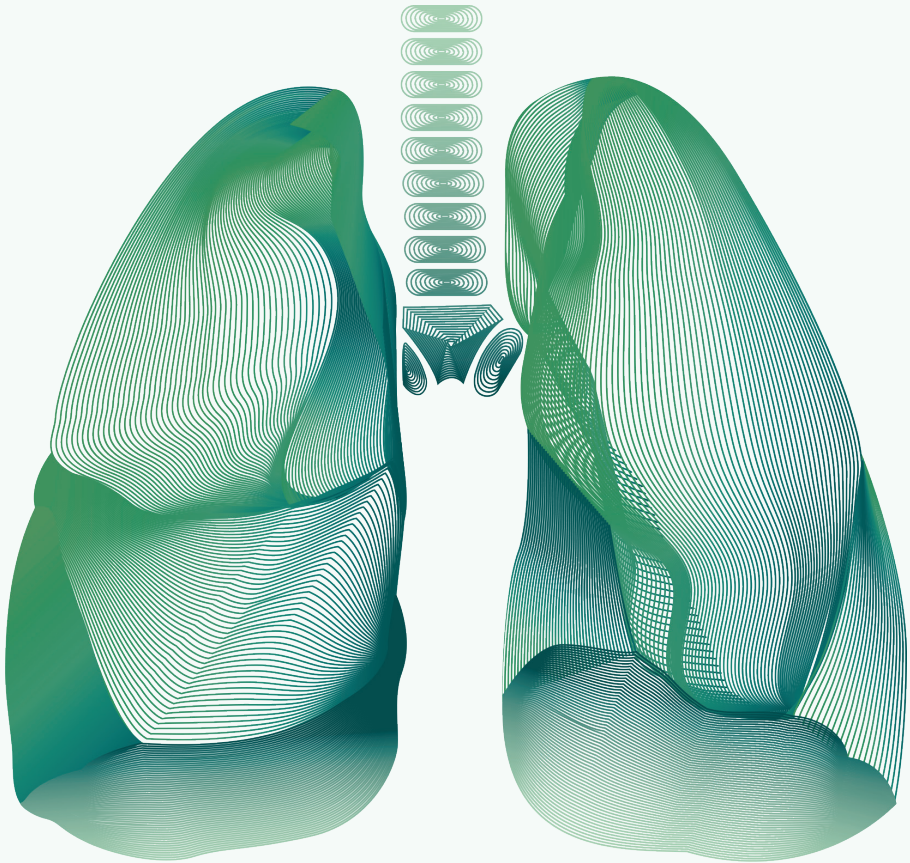


Cancer



Lung Cancer

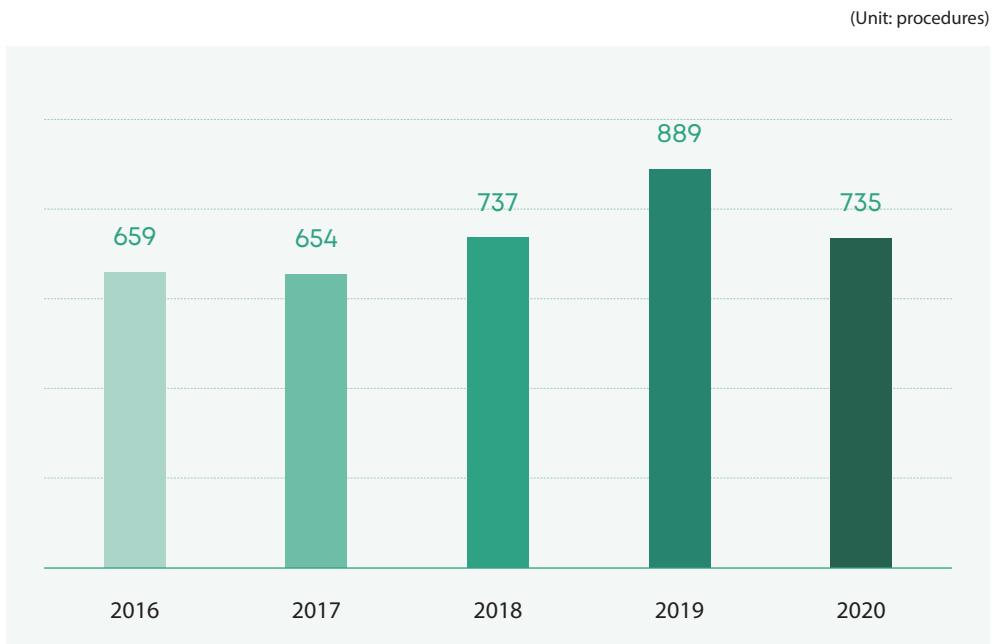


1

Annual number of lung cancer surgery

Index definition Annual number of lung cancer surgeries

Description SNUH performs 700 to 800 lung cancer surgeries annually, and the number is increasing each year.



Calculation

Numerator

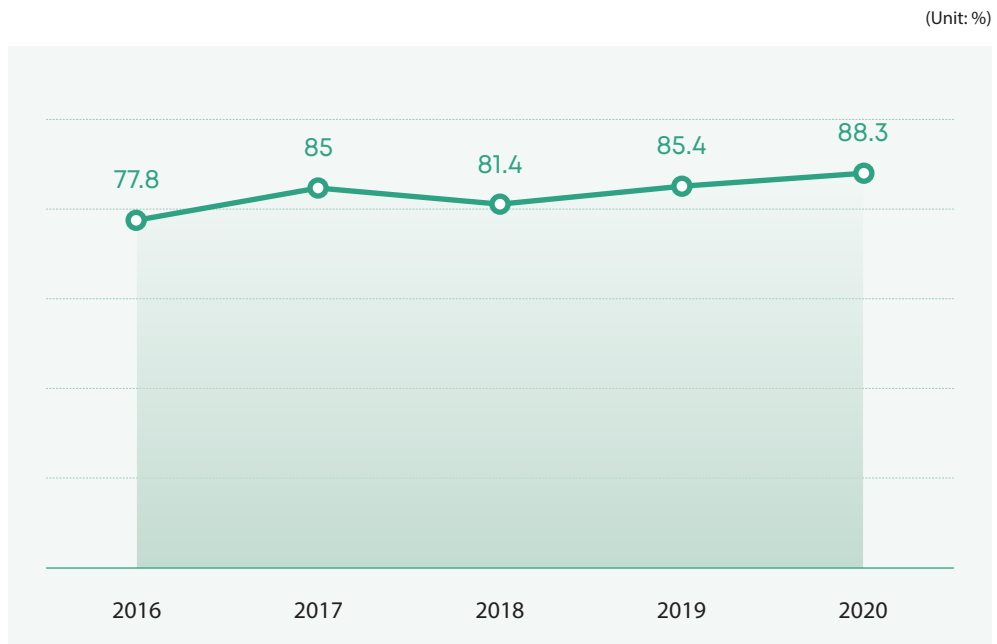
Number of lung cancer surgeries registered in the Cardiothoracic Surgery registry for the year (based on procedure date; duplicate patients allowed)

2

Proportion of minimally invasive surgery (thoracoscopic or robot) of lung cancer

Index definition Proportion of minimally invasive surgeries (thoracoscopic or robot) among lung cancer surgeries

Description Over 80% of lung cancer surgeries are minimally invasive surgery (thoracoscopic or robot).



Calculation

Numerator Number of thoracoscopic and robot procedures among lung cancer surgeries (duplicate patients allowed)

Denominator Number of lung cancer surgeries registered in the Cardiothoracic Surgery registry (duplicate patients allowed)

Exclusion **Denominator** Number of lung cancer surgeries not included in the Surgery registry

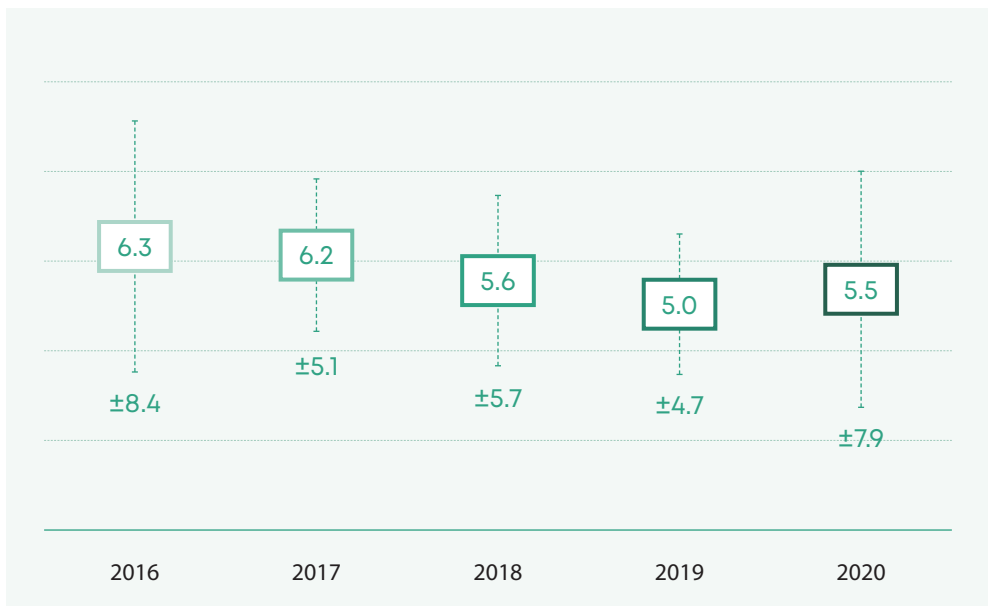
3

Postoperative hospitalization days of lung cancer (mean and SD)

Index definition Average hospitalization days from lung cancer surgery to discharge

Description After lung cancer surgery, it took 5 to 6 days on average for discharge.

(Unit: days)



Calculation

Numerator Total hospitalization days after lung cancer surgery (Surgery to discharge / Hospitalization days from surgery to the next surgery if there are more than two operations during the same hospitalization period)

Denominator Number of lung cancer surgeries registered in the Cardiothoracic Surgery registry (duplicate patients allowed)

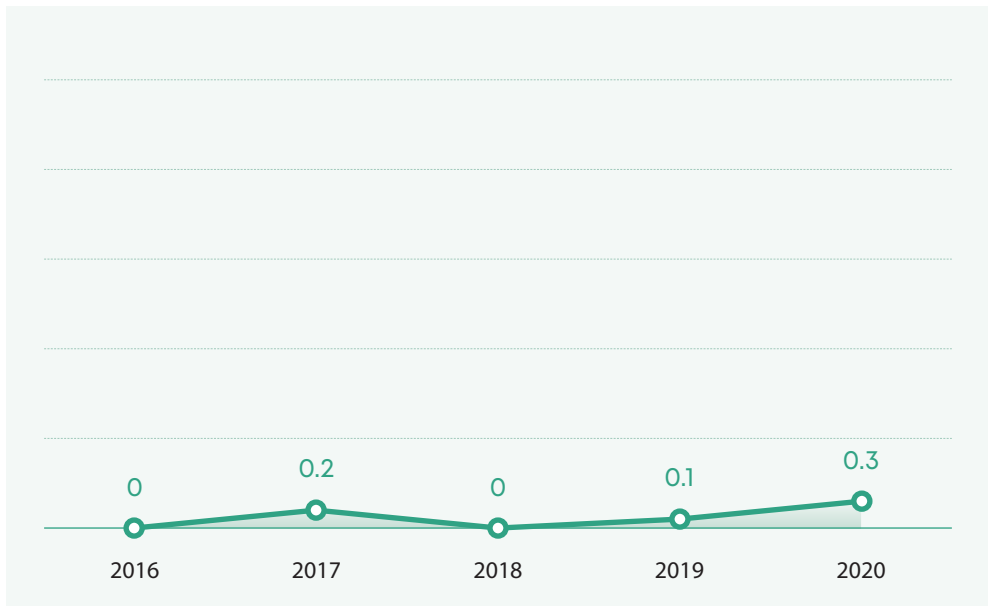
4

Postoperative 30-days crude in-hospital mortality rate of lung cancer

Index definition Crude in-hospital mortality rate of lung cancer patients within 30 days after surgery

Description The in-hospital mortality rate within 30 days after lung cancer surgery is below 0.3%.

(Unit: %)



Calculation

Numerator Mortality of patients within 30 days from the procedure

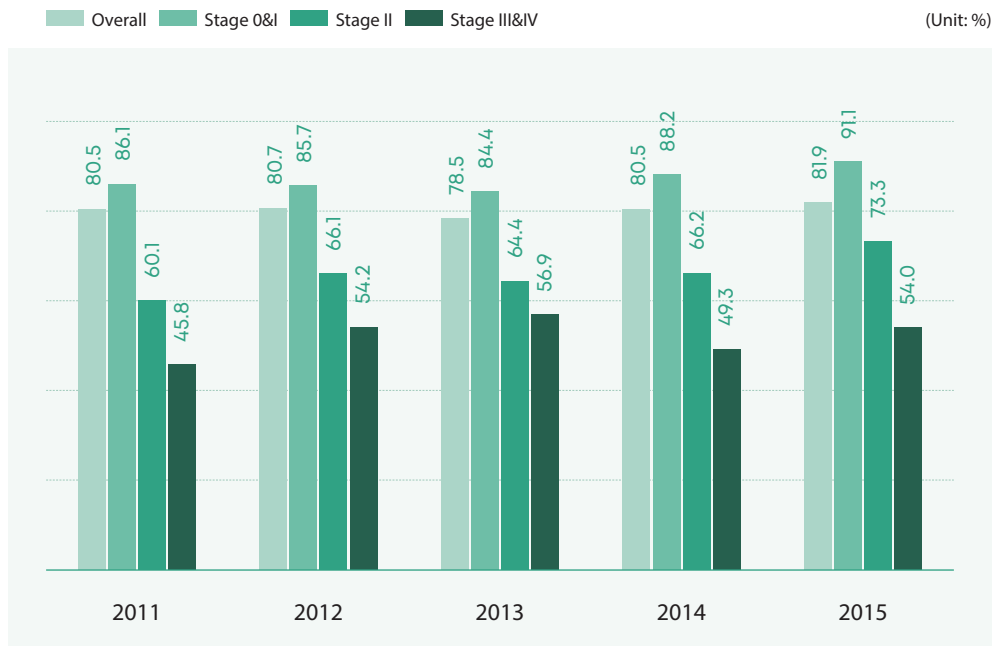
Denominator Number of lung cancer surgeries registered in the Cardiothoracic Surgery registry

5

Postoperative 5-years standardized survival rate of lung cancer by stage

Index definition Survival rate of patients for over 5 years after surgery for lung cancer by stage (standardized by age and sex based on total lung cancer surgeries in 2011)

Description The 5-year survival rate after lung cancer surgery was high for lower stages of lung cancer. The postoperative 5-year survival rate has increased since 2010. Over 80% of stage I, over 60% of stage II, and within 50% of stages III and IV patients had a long-term survival of more than 5 years.



Calculation

Numerator Surviving patients excluding patients who passed away within 5 years from the procedure (operation date by stage)

Denominator Number of lung cancer surgeries registered in the Cardiothoracic Surgery registry (operation date by stage)

Exclusion

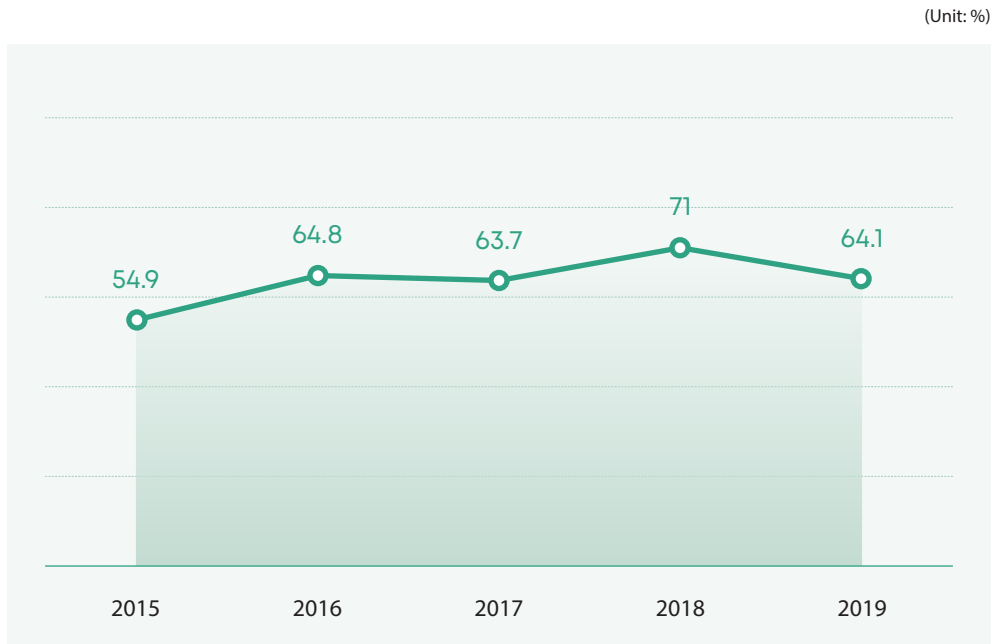
Denominator Foreign nationals

6

1-years standardized survival rate after chemotherapy in small cell lung cancer

Index definition Survival rate of patients for over 1 year after chemotherapy without surgery upon diagnosis of small cell lung cancer (standardized by age and sex based on total lung cancer diagnoses in 2015)

Description Patients who received chemotherapy after diagnosis of small cell lung cancer between 2015 and 2019 had an average 1-year survival rate of 67.5%.



- Calculation**
- Numerator** Surviving patients excluding patients who passed away within 1 year from diagnosis of small cell lung cancer
 - Denominator** Patients who received chemotherapy as the first treatment in the education counseling center
- Exclusion**
- Denominator** ❶ Patients who received treatment (surgery, radiation, etc.) other than chemotherapy
 - ❷ Foreign nationals

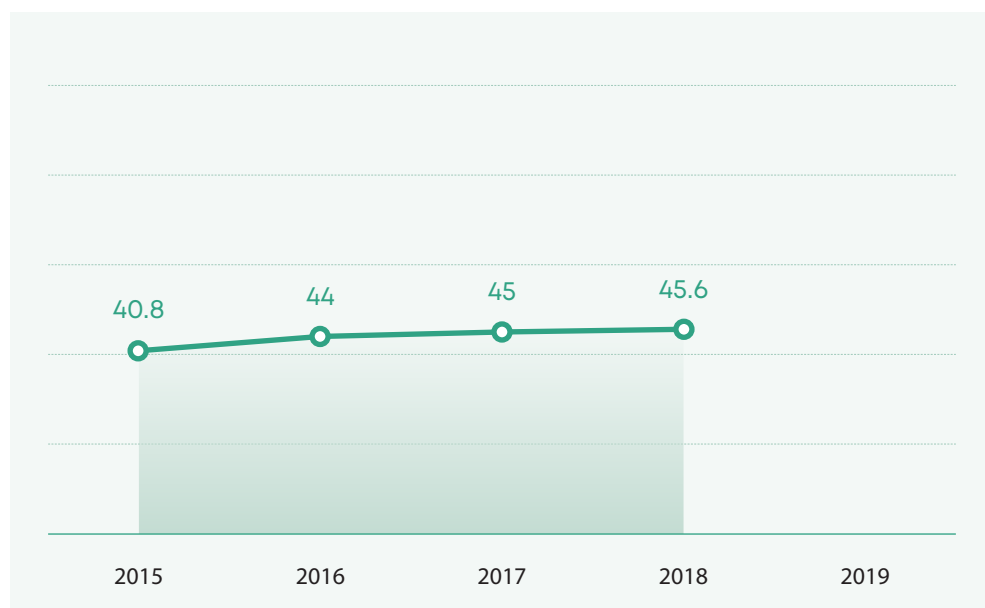
7

2-years standardized survival rate after chemotherapy in advanced/metastatic non-small cell lung cancer

Index definition Survival rate of patients for over 2 years after chemotherapy without surgery upon diagnosis of advanced/metastatic non-small cell lung cancer (standardized by age and sex based on total lung cancer diagnoses in 2015)

Description Among patients who received chemotherapy after diagnosis of advanced/metastatic non-small cell lung cancer between 2015 and 2018 had an average 2-year survival rate of 43.0%.

(Unit: %)



Calculation

Numerator Surviving patients excluding patients who passed away within 2 years from diagnosis of advanced/metastatic non-small cell lung cancer

Denominator Advanced/metastatic small cell lung cancer patients who received chemotherapy as the first treatment in the education counseling center

Exclusion

- Denominator**
- ❶ Patients who received treatment (surgery, radiation, etc.) other than chemotherapy
 - ❷ Foreign nationals