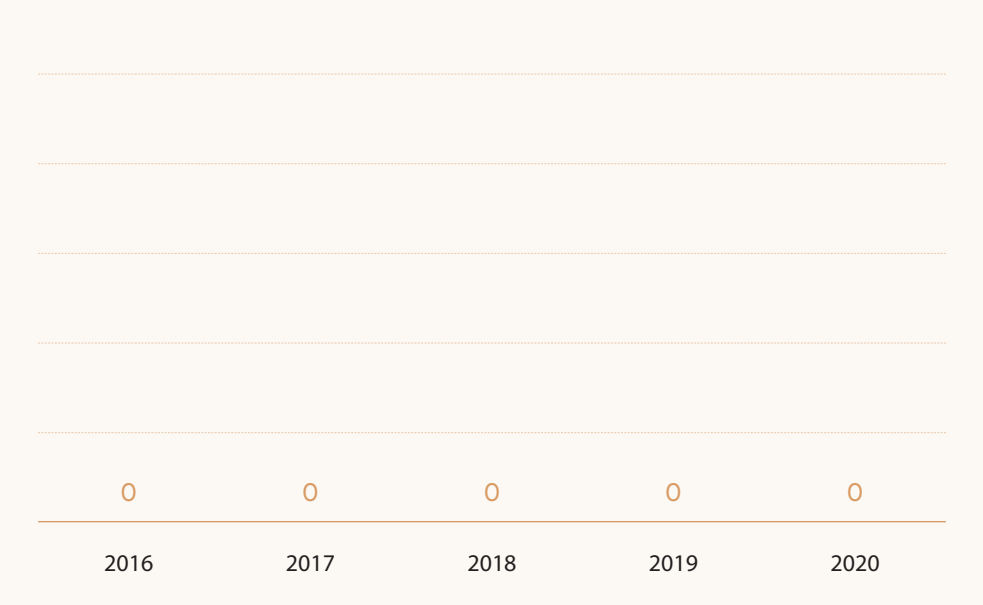
CPR Index

1 Arrest to CPR time for in-hospital cardiac arrest (median)

Index definition Time from cardiac arrest to start of CPR (the earliest treatment among chest compression, endotracheal intubation, first defibrillation, and first epinephrine administration) among in-hospital cardiac arrests

Description Promptly starting CPR for in-hospital cardiac arrest is extremely important in improving the survival rate of patients. SNUH continuously monitors and analyzes the arrest to CPR time and utilizes this data for patients that need intensive care.

(Unit: seconds)



Calculation

Numerator Start time of CPR from the estimated time of cardiac arrest (the earliest treatment among chest compression, endotracheal intubation, first defibrillation, and first epinephrine administration) (however, "0" if the medical staff performed CPR first in anticipation of cardiac arrest)

Denominator Number of CPR due to in-hospital cardiac arrest

Exclusion

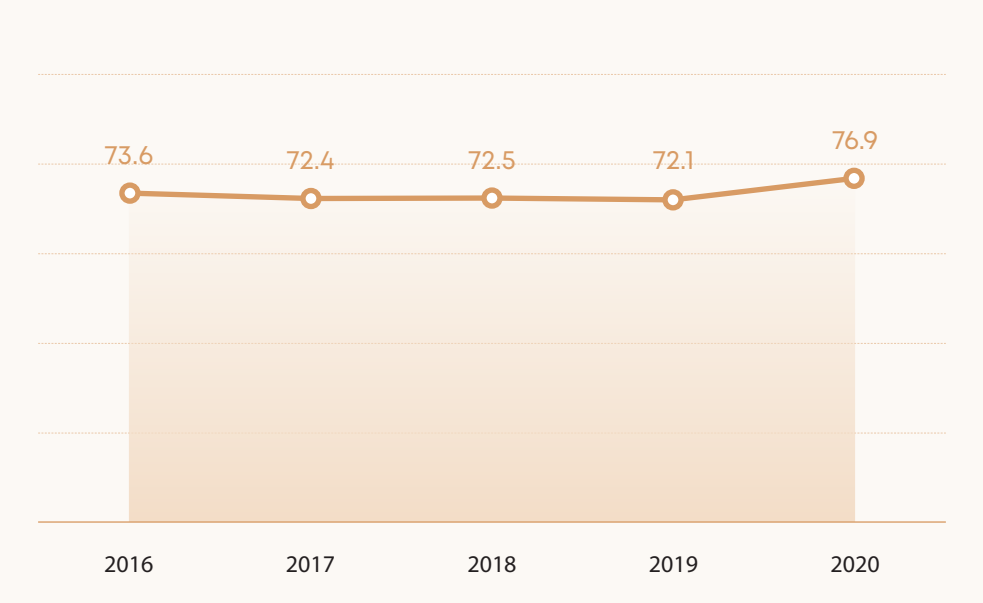
Denominator
❶ Newborns and patients who recovered from respiratory arrest
❷ Patients admitted to the ER while performing CPR from outside
❸ Organ-donor patients in the Transplantation Center

2 ROSC(recovery of spontaneous circulation) rate of in-hospital cardiac arrest

Index definition Crude incidence rate of recovery of spontaneous circulation (ROSC) after CPR for in-hospital cardiac arrests

Description SNUH continuously monitors and analyzes the ROSC rate among CPR for in-hospital cardiac arrests. This is utilized to train employees to effectively perform CPR and care for intensive-care patients.

(Unit: %)



Calculation
Numerator ROSC after cardiac arrest from CPR
Denominator Number of CPR due to in-hospital cardiac arrest

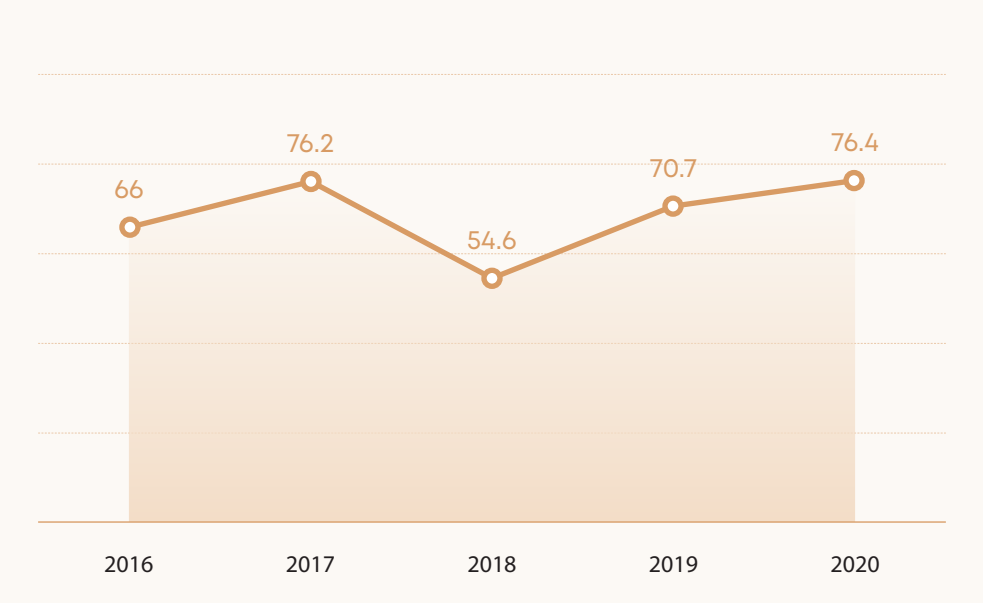
Exclusion
Denominator
❶ Newborns and patients who recovered from respiratory arrest
❷ Patients admitted to the ER while performing CPR from outside
❸ Organ-donor patients in the Transplantation Center

3 Proportion of rapid response team activation via proactive rounding

Index definition Proportion of rapid response team activation through proactive rounding

Description Proactive rounding refers to the rapid response team actively and preemptively finding patients who need intervention without relying on calls from ward medical staff, assisting with patient treatment, and promoting patient safety through constructive intervention with the relevant department staff. Proactive rounding is currently conducted for patients discharged from the ICU and those registered in the HIS_RSS program.

(Unit: %)



Calculation
Numerator Number of activations by proactive rounding
Denominator Total number of rapid response team activations