

January 1, 2017 -December 31, 2021

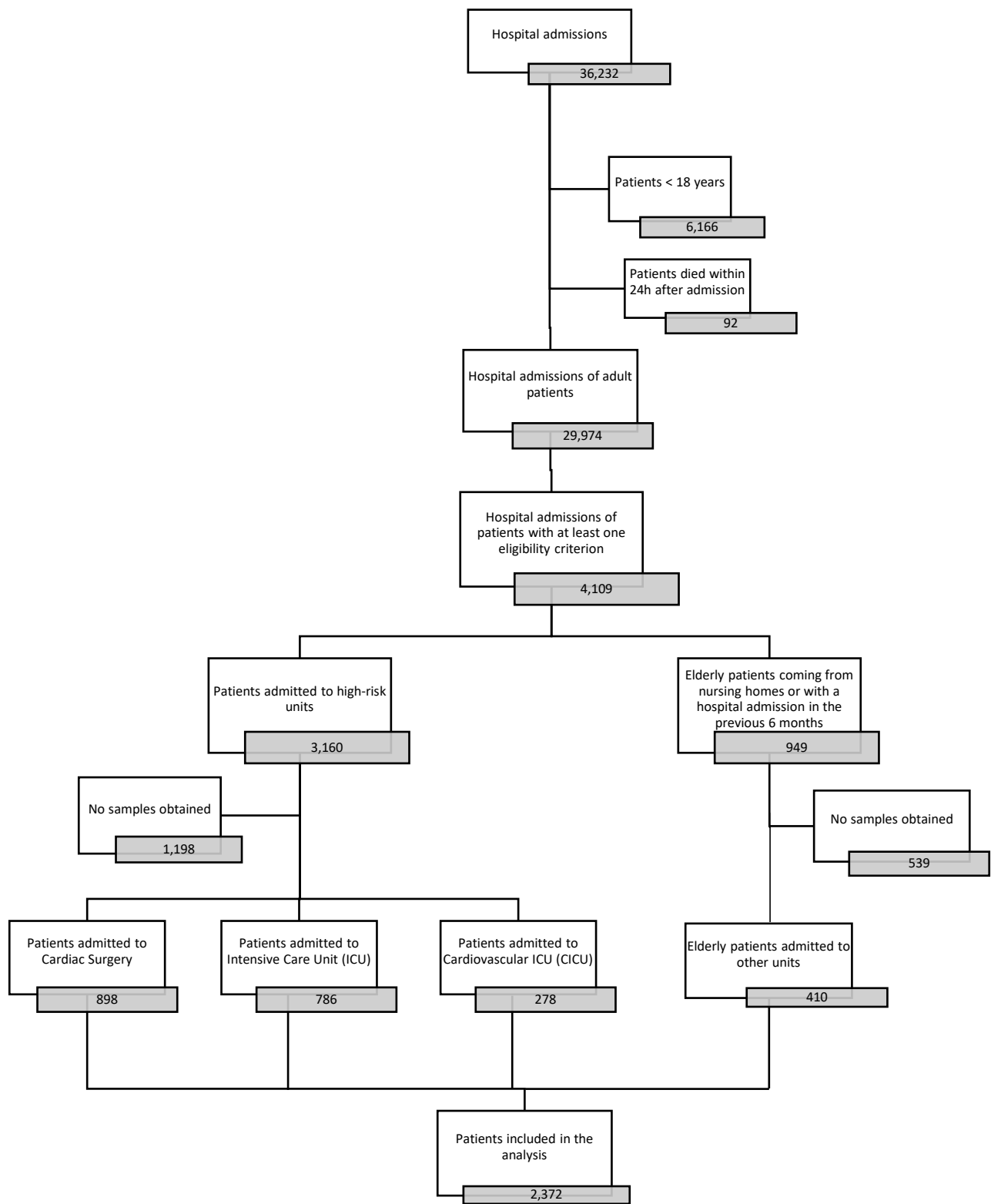


Figure S1. Flow-chart of sampling procedures of the study

Table S1. Results of the multilevel logistic regression analysis for estimates of associations of AMR pattern of isolates with explanatory variables

Model 1: Outcome: AMR pattern of isolates from nasal swabs

Log-likelihood = -94924.567; Prob > chi2 = 0.2460; Obs = 493

| Variables | OR | 95% CI | p |
|---------------------------|------|-----------|-------|
| Hospital wards | | | |
| Cardiac Surgery* | 1.00 | | |
| ICU and CICU | 1.08 | 0.95-1.22 | 0.243 |
| Other wards | 1.18 | 0.99-1.41 | 0.068 |
| Sex | | | |
| Female* | 1.00 | | |
| Male | 0.94 | 0.83-1.06 | 0.289 |
| Age in years (continuous) | 0.99 | 0.99-1.00 | 0.932 |

Model 2: Outcome: AMR pattern of isolates from pharyngeal swabs

Log-likelihood = -113078.35; Prob > chi2 < 0.001 ; Obs = 422

| Variables | OR | 95% CI | p |
|---------------------------|------|-----------|--------|
| Hospital wards | | | |
| Cardiac Surgery* | | | |
| ICU and CICU | 1.74 | 1.31-2.33 | <0.001 |
| Other wards | 0.90 | 0.64-1.25 | 0.519 |
| Sex | | | |
| Female* | 1.00 | | |
| Male | 1.04 | 0.78-1.39 | 0.795 |
| Age in years (continuous) | 0.99 | 0.98-1.00 | 0.146 |

Model 3: Outcome: AMR pattern of isolates from rectal swabs

Log-likelihood = -30431.049; Prob > chi2 = 0.4123; Obs = 132

| Variables | OR | 95% CI | p |
|---------------------------|------|-----------|-------|
| Hospital wards | | | |
| Cardiac Surgery* | 1.00 | | |
| ICU and CICU | 1.03 | 0.80-1.31 | 0.842 |
| Other wards | 0.56 | 0.26-1.18 | 0.125 |
| Sex | | | |
| Female* | 1.00 | | |
| Male | 0.70 | 0.41-1.22 | 0.211 |
| Age in years (continuous) | 0.99 | 0.98-1.01 | 0.721 |

Abbreviations: ICU, Intensive Care Unit; CICU, Cardiovascular Intensive Care Unit.

*Reference category.