## **ICNARC** Data on Outcomes from Viral Pneumonia

Mortality is presented at discharge from the critical care unit and at ultimate discharge from acute hospital (excluding readmissions of the same patient within the same acute hospital stay) by age groups of <50, 50-59, 60-69, 70-79, 80+ years and overall for Pneumonia with respiratory and cardiovascular comorbidties. See also the frailty section of the website for additional information.

Age (years)	Critical care unit mortality - with cardiovascular comorbidity	Critical care unit mortality - without cardiovascular comorbidity	Acute hospital mortality - with cardiovascular comorbidity	Acute hospital mortality - without cardiovascular comorbidity	
16-49	25/135 (18.5%)	1,829/16,503 (11.1%)	35/128 (27.3%)	2,204/15,118 (14.6%)	
50-59	58/170 (34.1%)	2,459/12,871 (19.1%)	63/157 (40.1%)	3,017/11,722 (25.7%)	
60-69	112/335 (33.4%)	4,395/17,463 (25.2%)	133/307 (43.3%)	5,329/15,914 (33.5%)	
70-79	195/486 (40.1%)	5,842/18,844 (31.0%)	241/430 (56.0%)	7,189/17,098 (42.0%)	
80+	148/338 (43.8%)	3,575/9,822 (36.4%)	195/312 (62.5%)	4,648/9,131 (50.9%)	
All ages	538/1,464 (36.7%)	18,100/75,503 (24.0%)	667/1,334 (50.0%)	22,387/68,983 (32.5%)	
Definition:	Severe comorbidities must have been present in the six months prior to admission to the critical care unit and documented in the patient record either at or prior to admission to the critical care unit.				
	Cardiovascular comorbidity is defined as fatigue, claudication, dyspnoea or angina at rest due to myocardial or peripheral vascular disease (New York Heart Association functional class IV).				
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Age (years)	Critical care unit mortality - with respiratory comorbidity	Critical care unit mortality - without respiratory comorbidity	Acute hospital mortality - with respiratory comorbidity	Acute hospital mortality - without respiratory comorbidity		
16-49	121/796 (15.2%)	1,733/15,842 (10.9%)	148/745 (19.9%)	2,091/14,501 (14.4%)		
50-59	187/668 (28.0%)	2,330/12,373 (18.8%)	219/635 (34.5%)	2,861/11,244 (25.4%)		
60-69	382/1,171 (32.6%)	4,125/16,627 (24.8%)	464/1,109 (41.8%)	4,998/15,112 (33.1%)		
70-79	464/1,158 (40.1%)	5,573/18,172 (30.7%)	554/1,087 (51.0%)	6,876/16,441 (41.8%)		
80+	173/415 (41.7%)	3,550/9,745 (36.4%)	221/391 (56.5%)	4,622/9,052 (51.1%)		
All ages	1,327/4,208 (31.5%)	17,311/72,759 (23.8%)	1,606/3,967 (40.5%)	21,448/66,350 (32.3%)		
Definition:	Severe comorbidities must have been present in the six months prior to admission to the critical care unit and documented in the patient record either at or prior to admission to the critical care unit.					
	Respiratory comorbidity is defined as permanent shortness of breath with light activity due to pulmonary disease or use					
	of home ventilation (excluding CPAP for sleep apnoea).					
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## **Comorbidities and Frailty**

## The following impact on generic critical care outcomes. They will significantly reduce the likelihood of survival from pneumonia and make it unlikely the person will return home

Rockwood Frailty score of 5 and above	Chronic lung disease on home	
Unwitnessed cardiac arrest	oxygen or secondary pulmonary hypertension	
Advanced and irreversible immunocompromised state	COPD with FEV1<25% predicted or symptoms on mild exertion	
Widespread life limiting metastatic malignant disease	Primary pulmonary hypertension with symptoms at rest or on mild exertion or mean pulmonary artery	
Elective palliative surgery	pressure >50 mmHg	
Heart failure with symptoms at rest or on mild exertion	Severe and irreversible neurological disease	
	Chronic Liver Disease with Child- Pugh Score ≥ 7	

This document was developed by Critical Care, GP and Palliative Care Doctors in Devon