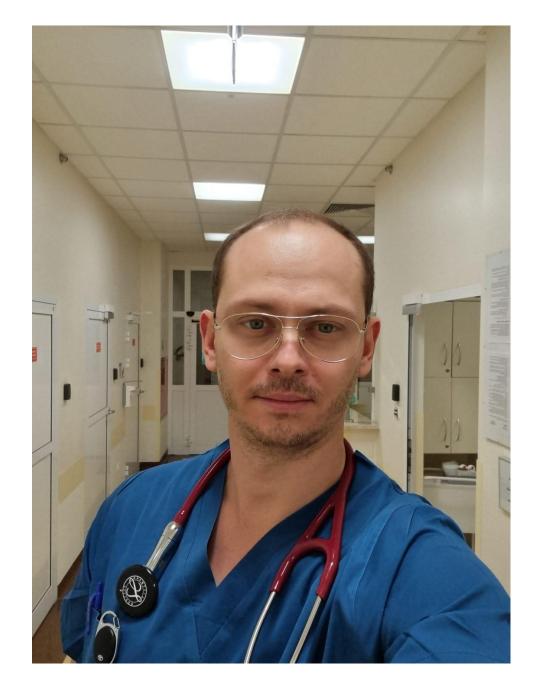


Dominik Bursa

Secretary

Euroguidelines in Central and Eastern Europe Network Group



Warsaw, Poland 2021

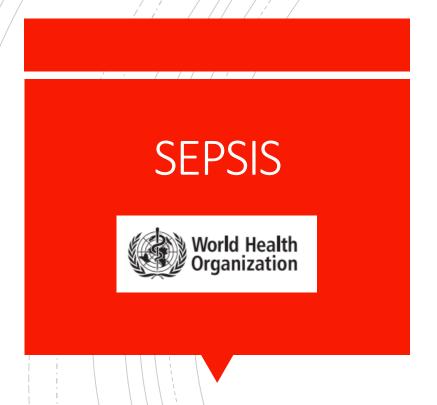


SEPSIS

Polish and worldwide data

- Sepsis is life-threatening organ dysfunction due to a dysregulated host response to infection. It is considered a major cause of health loss, but data for the global burden of sepsis are limited. As a syndrome caused by underlying infection, sepsis is not part of standard Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) estimates.
- Multiple cause-of-death data from 109 million individual death records were used to calculate mortality related to sepsis among each of the 282 underlying causes of death in GBD 2017.
- Age-standardised sepsis incidence fell by 37·0% (95% UI 11·8–54·5) and mortality decreased by 52·8% (47·7–57·5) from 1990 to 2017. Despite declining age-standardised incidence and mortality, sepsis remains a major cause of health loss worldwide and has an especially high health-related burden in sub-Saharan Africa.

GLOBAL REPORT ON THE EPIDEMIOLOGY AND BURDEN OF SEPSIS. WHO. 2020



Hospital-treated sepsis in adults Incidence: 189 per 100 000 person-years Overall mortality: 26.7% Mortality of ICU-treated sepsis: 42.0%

Hospital-acquired sepsis cases of sepsis were acquired in the hospital 1 in 4 cases Patients with hospital-acquired sepsis had a longer length of stay and high AMR rates, which can significantly impact on patient outcomes. Sepsis worldwide in 2017 48.9 million 11 million 20% cases of sepsis of all global deaths sepsis-related deaths Sepsis incidence in 2017 and children Sepsis incidence 41.5% (20.3 million) children was biphasic; of incident sepsis cases younger it peaked in early than 5 childhood and again 26.4% (2.9 million) years in elderly adults. deaths related to sepsis Sepsis regional and economic disparities 85.0% of sepsis cases and 84.8% of sepsis related deaths occurred in countries with low, low-middle, or middle sociodemographic indices, particularly in sub-Saharan Africa

and South-East Asia.

Hospital-acquired sepsis cases

1 in 4 cases

of sepsis were acquired in the hospital

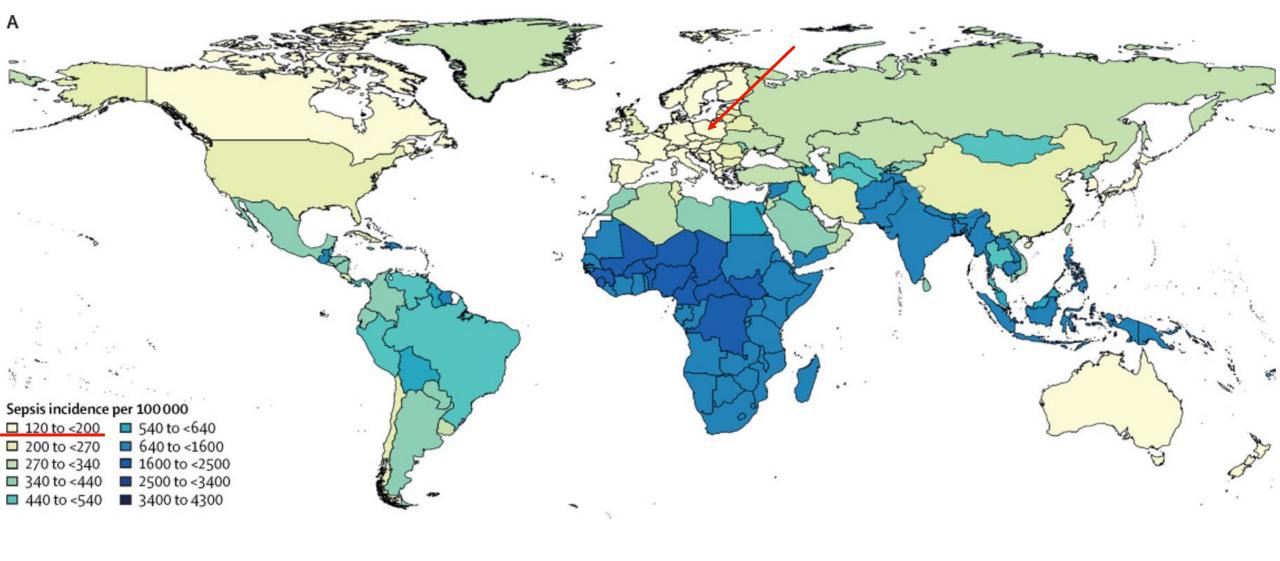
Patients with hospital-acquired sepsis had a longer length of stay and high AMR rates, which can significantly impact on patient outcomes.

Sepsis incidence by location for all ages, both sexes, and all underlying causes, 1990 and 2017

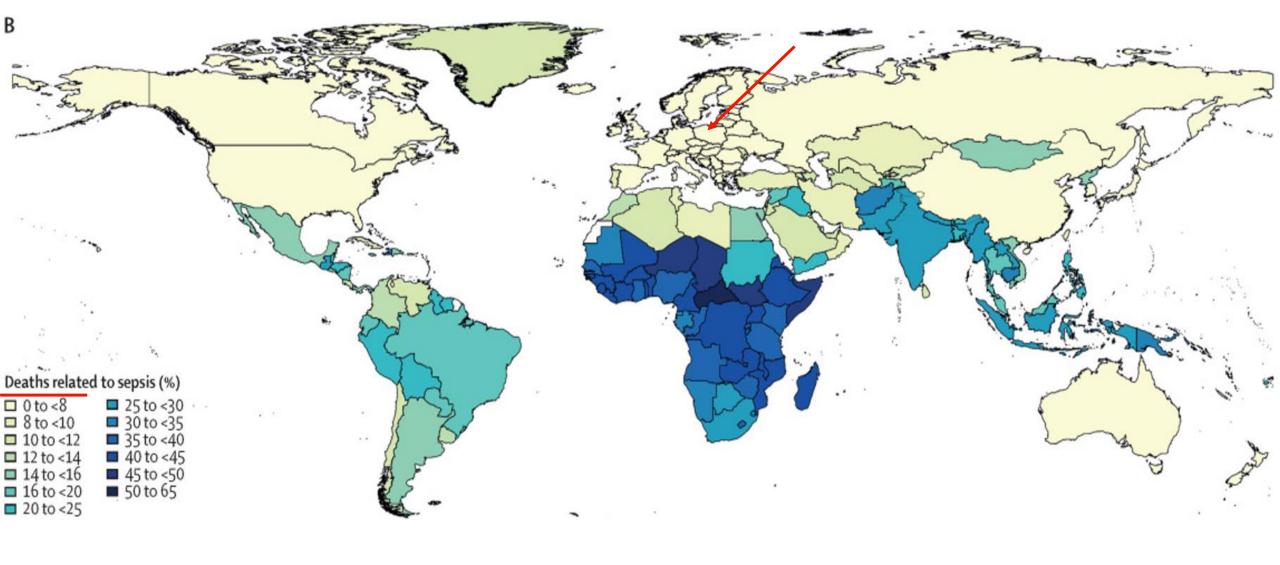
		All underlying causes				Underlying infection			Underlying non-communicable disease			Underlying injury		
Loca	ation	Incident sepsis cases (95% UI), 2017	Percentage change in sepsis ASIR (95% UI), 1990-2017	Sepsis ASIR per 100,000 population (95% UI), 2017	Incident sepsis cases (95% UI), 2017	Percentage change in sepsis ASIR (95% UI), 1990-2017	Sepsis ASIR per 100,000 population (95% UI), 2017	Incident sepsis cases (95% UI), 2017	Percentage change in sepsis ASIR (95% UI), 1990-2017	Sepsis ASIR per 100,000 population (95% UI), 2017	Incident sepsis cases (95% UI), 2017	Percentage change in sepsis ASIR (95% UI), 1990-2017	Sepsis ASIR per 100,000 population (95% UI), 2017	
Polar	nd	100,478 (82,825 - 126,495)	-47.4 (-61.5 - -29.1)	181.3 (147.3 - 229.7)	41,790 (28,394 - 64,322)	-44.2 (-70.1 - -5.5)	80.4 (54.1 - 120.8)	53,365 (43,119 - 67,116)	-48.3 (-64.9 - -28.5)	89.6 (70.9 - 116.9)	5,323 (3,646 - 7,673)	-48.3 (-70.4 - -18.6)	11.3 (7.8 - 16.3)	

Sepsis-related mortality by location for all ages, both sexes, and all underlying causes, 1990 and 2017

	All underlying causes			Underlying infection			Underlying non-communicable disease			Underlying injury		
Location	Percentage change in sepsis ASMR (95% UI), 1990- 2017	Sepsis ASMR per 100,000 population (95% UI), 2017	Sepsis- related deaths (95% UI), 2017	Percentage change in sepsis ASMR (95% UI), 1990– 2017	Sepsis ASMR per 100,000 population (95% UI), 2017	Sepsis- related deaths (95% UI), 2017	Percentage change in sepsis ASMR (95% UI), 1990– 2017	Sepsis ASMR per 100,000 population (95% UI), 2017	Sepsis- related deaths (95% UI), 2017	Percentage change in sepsis ASMR (95% UI), 1990– 2017	Sepsis ASMR per 100,000 population (95% UI), 2017	Sepsis- related deaths (95% UI), 2017
Poland	-62.0 (-67.9 - -55.3)	38.2 (33.7 - 43.3)	25,833 (22,657 - 29,362)	-55.5 (-68.1 - -40.8)	12.9 (9.7 - 16.3)	8,685 (6,453 - 11,091)	-65.3 (-72.0 - -57.3)	24.7 (21.3 - 28.7)	16,906 (14,511 - 19,906)	-70.8 (-80.2 - -58.6)	1.8 (1.4 - 2.4)	1,036 (767 - 1,409)



Age-standardised sepsis incidence per 100 000 population for both sexes, in 2017



Percentage of all deaths related to sepsis, age-standardised for both sexes, in 2017



26 August 2020



How to prevent sepsis

The role you can play in health care and communities

#sepsis #handhygiene



Every year sepsis affects













Who is at risk?





















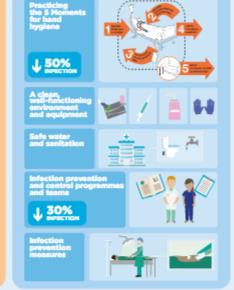


Early detection of sepsis signs and symptoms

Good hygiene

40%





Evolution of an infection to sepsis can be prevented by:

The main ways to prevent infection are:

Prompt seeking of medical care

Prompt antimicrobial treatment and its reassessment





How and where do we prevent sepsis?



Sepsis can be prevented by

preventing

preventing the evolution of infection to sepsis



Together we can help prevent sepsis and save millions of lives every year





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