

Bakteriella infektioner hos covid-19 patienter

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20201117

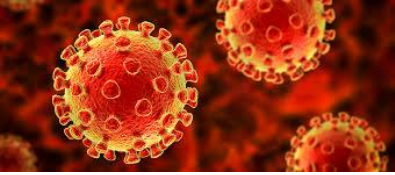
A vibrant illustration featuring a diverse group of people, including a woman holding a child, a man with glasses, a woman in a pink hijab, a young boy, a woman in a blue lab coat, and a man with a goatee in a white lab coat. In the background, there are stylized microorganisms: a purple virus-like particle on the left and a large yellow circular structure with internal details in the center. The background is a mix of green and yellow hues.

World Antimicrobial Awareness Week

18 - 24 November 2020

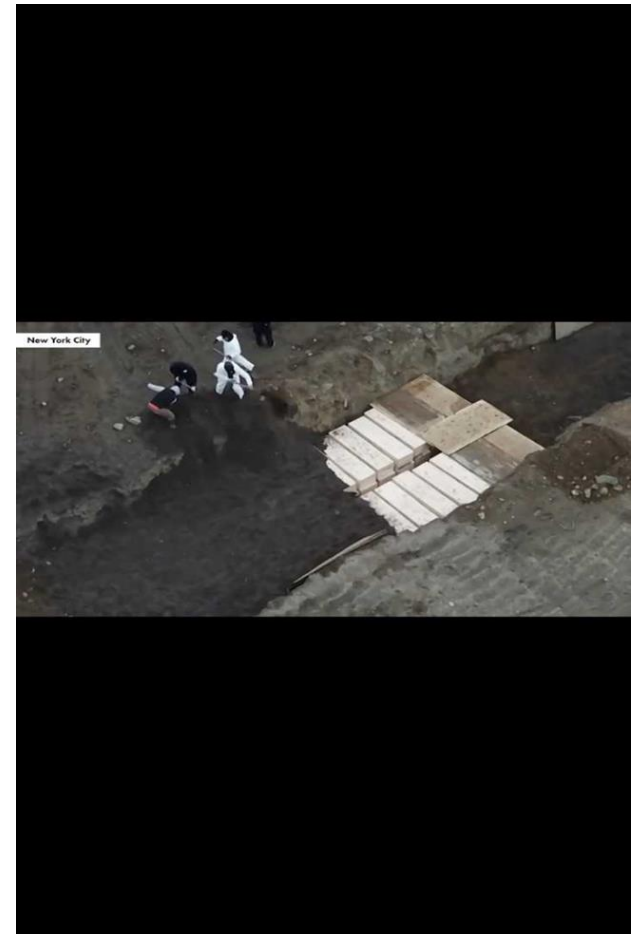
Credits





Covid-19 Pandemi

- 600 miljoner infekterade (?)
- Mer än 1 miljon avlidna
- Stor morbiditet- långtidssymtom
- Ökande ojämlikhet
- Ökande fattigdom
- Ökande antibiotikaresistens?



37 000 döda i Sverige!

Table 1. Emerging Infectious Diseases in History

Year	Name	Deaths	Comments
430 BCE	“Plague of Athens”	~100,000	First identified trans-regional pandemic
541	Justinian plague (<i>Yersinia pestis</i>)	30–50 million	Pandemic; killed half of world population
1340s	“Black Death” (<i>Yersinia pestis</i>)	~50 million	Pandemic; killed at least a quarter of world population
1494	Syphilis (<i>Treponema pallidum</i>)	>50,000	Pandemic brought to Europe from the Americas
c. 1500	Tuberculosis	High millions	Ancient disease; became pandemic in Middle Ages
1520	Hueyahuatl (<i>Variola major</i>)	3.5 million	Pandemic brought to New World by Europeans
1793–1798	“The American plague”	~25,000	Yellow fever terrorized colonial America
1832	2nd cholera pandemic (Paris)	18,402	Spread from India to Europe/Western Hemisphere
1918	“Spanish” influenza	~50 million	Led to additional pandemics in 1957, 1968, 2009
1976–2020	Ebola	15,258	First recognized in 1976; 29 regional epidemics to 2020
1981	Acute hemorrhagic conjunctivitis	rare deaths	First recognized in 1969; pandemic in 1981
1981	HIV/AIDS	~37 million	First recognized 1981; ongoing pandemic
2002	SARS	813	Near-pandemic
2009	H1N1 “swine flu”	284,000	5th influenza pandemic of century
2014	Chikungunya	uncommon	Pandemic, mosquito-borne
2015	Zika	~1,000? [*]	Pandemic, mosquito-borne

Selected important emerging and re-emerging infectious diseases of the past and present, 430 BCE–2020 CE. Mortality estimates are in most cases imprecise; see text.

^{*}Zika mortality has not been fully established. Most deaths are fetal or related to outcomes of severe congenital infections.

Predominant Role of Bacterial Pneumonia as a Cause of Death in Pandemic Influenza: Implications for Pandemic Influenza Preparedness

David M. Morens, Jeffery K. Taubenberger, and Anthony S. Fauci
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland

The Journal of Infectious Diseases 2009; 199:xxx
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0950-2688/09/019903-09\$X
DOI: 10.1093/infdis/jin1708

”Spanskan”: 500 miljoner smittade

(20-) 40 – 50 miljoner döda!



Hur många influensa-patienter (säsongsinfluensa) har en bakteriell infektion?

The frequency of influenza and bacterial coinfection: a systematic review and meta-analysis

Eili Y. Klein,^{a,b} Bradley Monteforte,^c Alisha Gupta,^d Wendi Jiang,^b Larissa May,^e Yu-Hsiang Hsieh,^a Andrea Dugas^a

DOI:10.1111/irv.12398
www.influenzajournal.com



Hur många influensa-patienter
har en bakteriell infektion?

20 – 30 %!

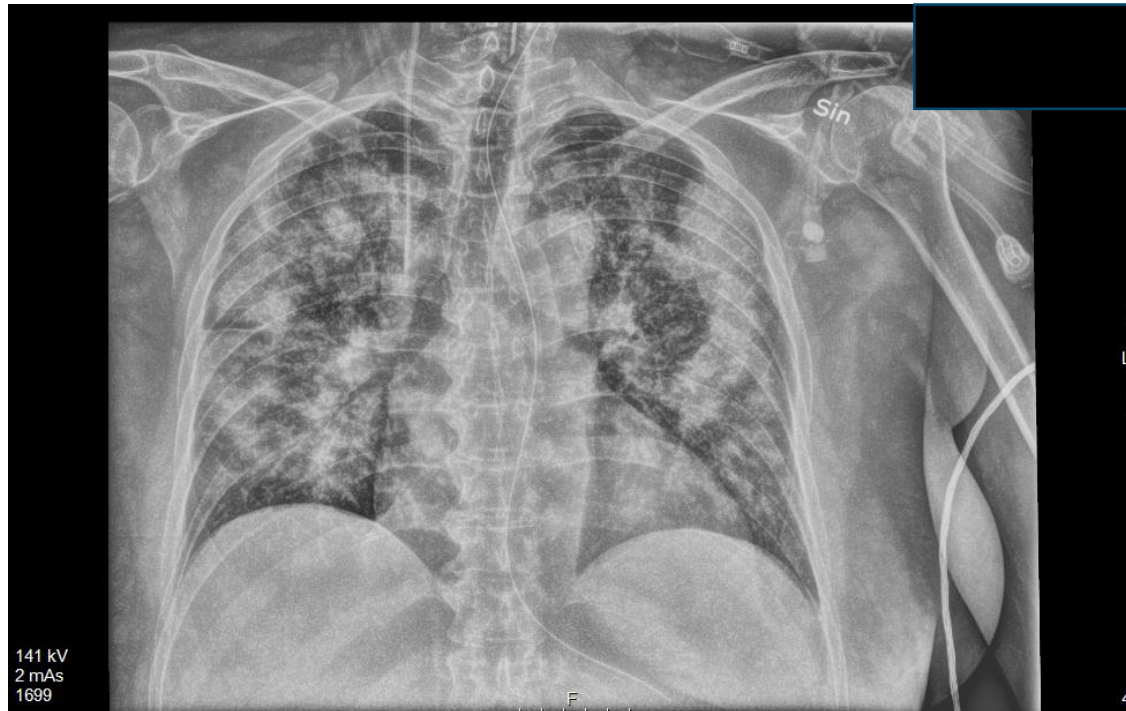
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The frequency of **influenza** and bacterial coinfection: a
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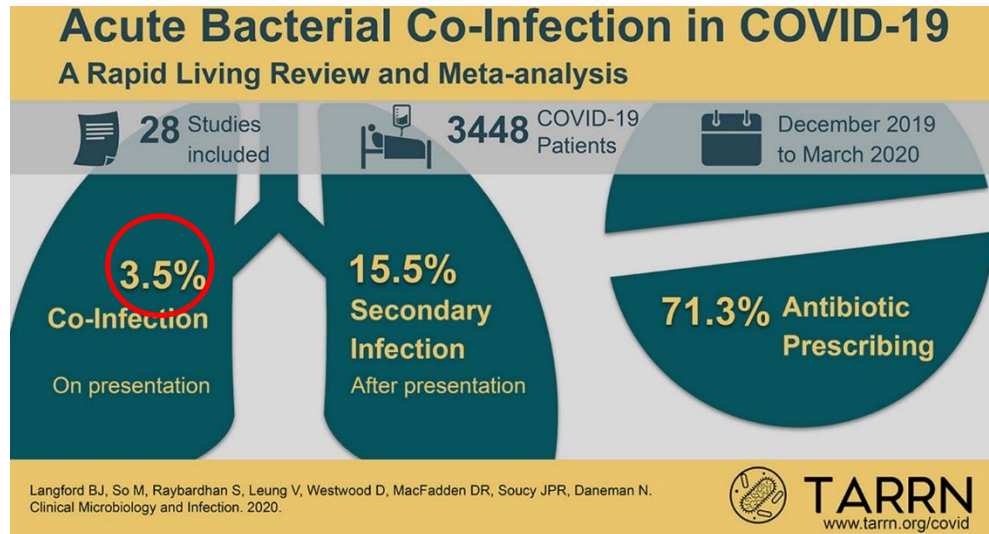
Hur många covid-19 patienter har en bakteriell infektion?



Hur många covid-19 patienter har en bakteriell infektion?

8 %

(6,1 – 9,9)



- 38 sjukhus, 1705 sjukhusvårdade covid-19 patienter
- 3,5 % samhällsförvärd co-infektion
- 57 % erhöill empirisk antibiotikabehandling
- Starkaste prediktorn för behandling: "for profit hospital"

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Supplementary data

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Empiric Antibacterial Therapy and Community-onset Bacterial Co-infection in Patients Hospitalized with COVID-19: A Multi-Hospital Cohort Study

Valerie M Vaughn, MD, MSc , Tejal Gandhi, MD, Lindsay A Petty, MD, Payal K Patel, MD, MPH, Hallie C Prescott, MD, MSc, Anurag N Malani, MD, David Ratz, MS, Elizabeth McLaughlin, MS, RN, Vineet Chopra, MD, MSc, Scott A Flanders, MD

Clinical Infectious Diseases, ciaa1239, <https://doi.org/10.1093/cid/ciaa1239>

Published: 21 August 2020 **Article history** ▼



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Jaclyn A Cusumano , Amy C Dupper, Yesha Malik, Elizabeth M Gavioli, Jaspreet Banga, Ana Berbel Caban, Devika Nadkarni, Ajay Obla, Chirag V Vasa, Dana Mazo ... [Show more](#)

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