

Tussen Sepsis en sCepsis

Olaf Cremer

Intensivist & hoogleraar 'Klinische epidemiologie van sepsis'



UMC Utrecht

(Potentiële) belangenverstrengelingen

Relaties	Bedrijfsnamen
Sponsoring of onderzoeksgeld	<ul style="list-style-type: none">• ImmuneXpress Inc. (research grant)• Abionic SA (research grant)
Honorarium	<ul style="list-style-type: none">• GlaxoSmithKline (money paid to UMCU)• Parexel (money paid to UMCU)
Aandeelhouder	geen
Andere relaties	geen

World News

1 April

www.loremipsum.com

MAJOR SEPSIS PANDEMIC

HOW STAYING AT HOME CAN STOP SEPSIS

Staying at home is the best way to prevent the spread of sepsis, a deadly infection that can be caused by a variety of bacteria and viruses. Experts warn that the current pandemic is spreading rapidly, and staying at home is the most effective way to prevent it. This includes avoiding public places, crowded events, and close contact with others. Wearing a mask and practicing good hand hygiene are also important steps to take.

WHEN WILL THERE BE A SEPSIS VACCINE?

Scientists are working hard to develop a vaccine for sepsis, but it is still unclear when it will be available. The current pandemic has highlighted the need for a vaccine, and researchers are working to identify the most effective candidates. It is expected that a vaccine will be available within the next few years, but the exact timeline depends on the progress of the research.

TWELVE MYTHS ABOUT SEPSIS

There are many myths about sepsis, and it is important to understand the truth. Sepsis is a life-threatening condition that can be caused by a variety of infections. It is not contagious, and it is not a disease. It is a complication of an infection that can be fatal if not treated promptly. Understanding the truth about sepsis is essential for preventing and treating it.

US-CANADA BORDER TO CLOSE

Face mask shortage

WHEN WILL THE OUTBREAK END?

Seniors at risk

460-370 v.Chr.

“Σῆψις is een staat van rotting en bederf”

1991

“Sepsis is een systemische ontsteking door infectie”

2016

“Sepsis is levensbedreigend orgaanfalen door een ontregelde immuunreactie op infectie”

De gevolgen van sepsis zijn enorm

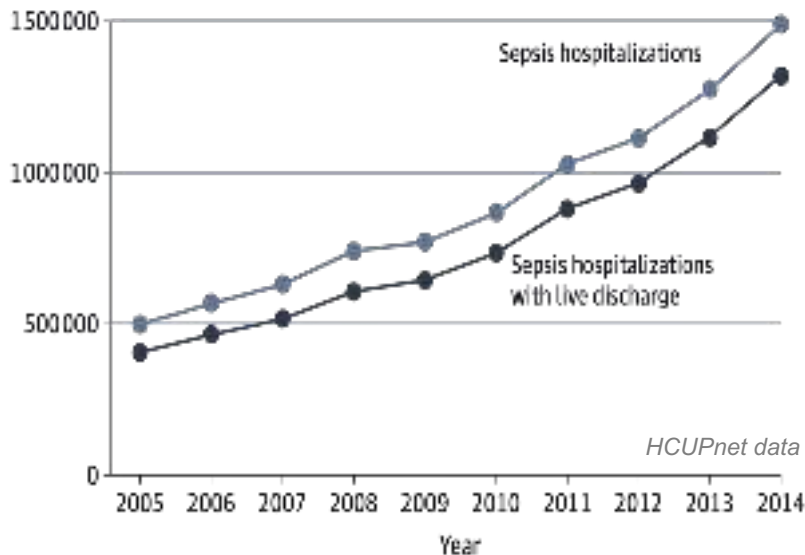
In 2017 waren er wereldwijd:

- 48.9 miljoen gevallen van sepsis
- 11.0 miljoen sepsis-gerelateerde doden (dit is 20% van alle sterfgevallen wereldwijd)



Rudd, Lancet 2020

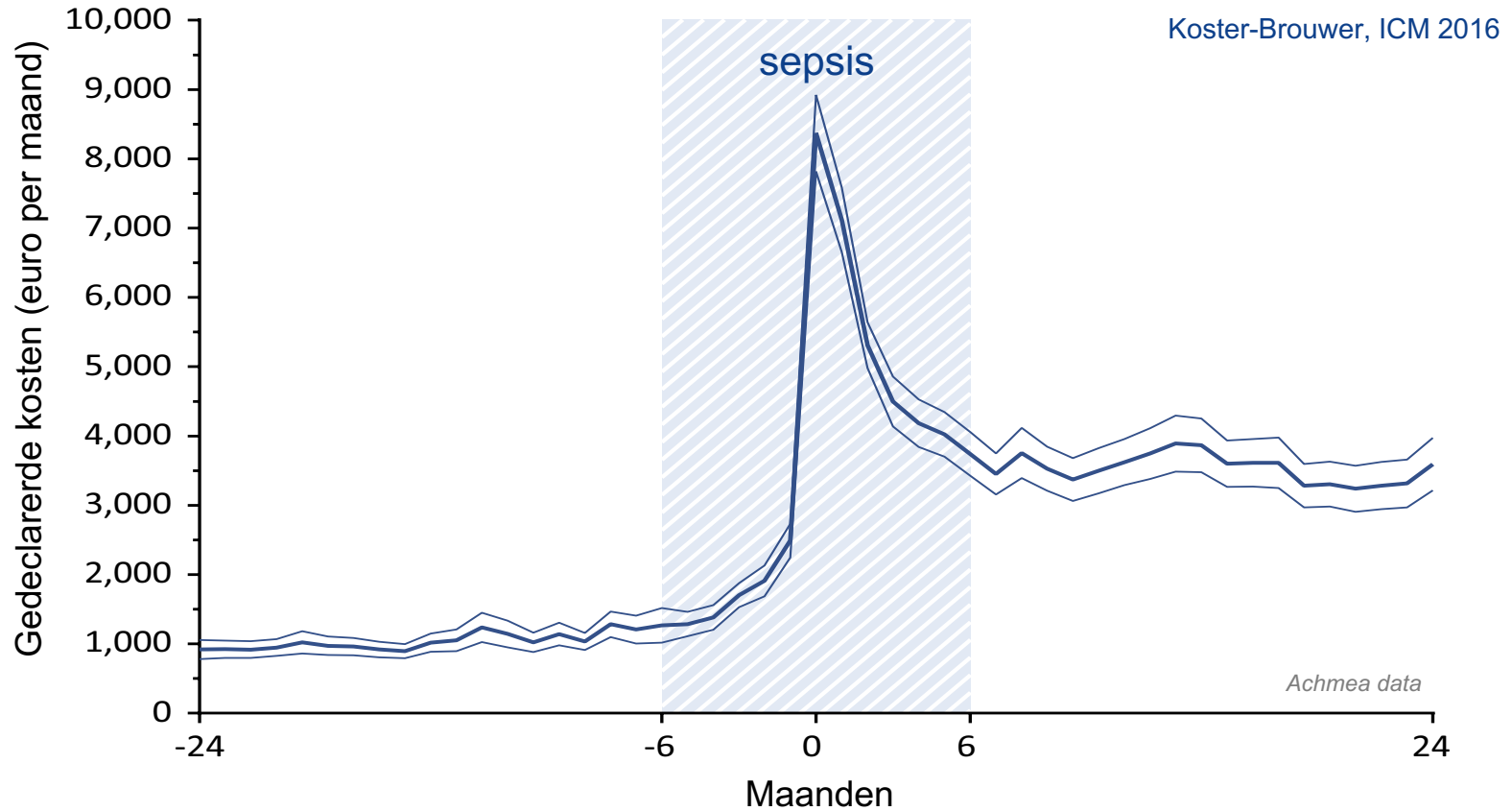
Zkh opnames met/door sepsis in de VS:



...maar dit geldt niet voor westerse landen

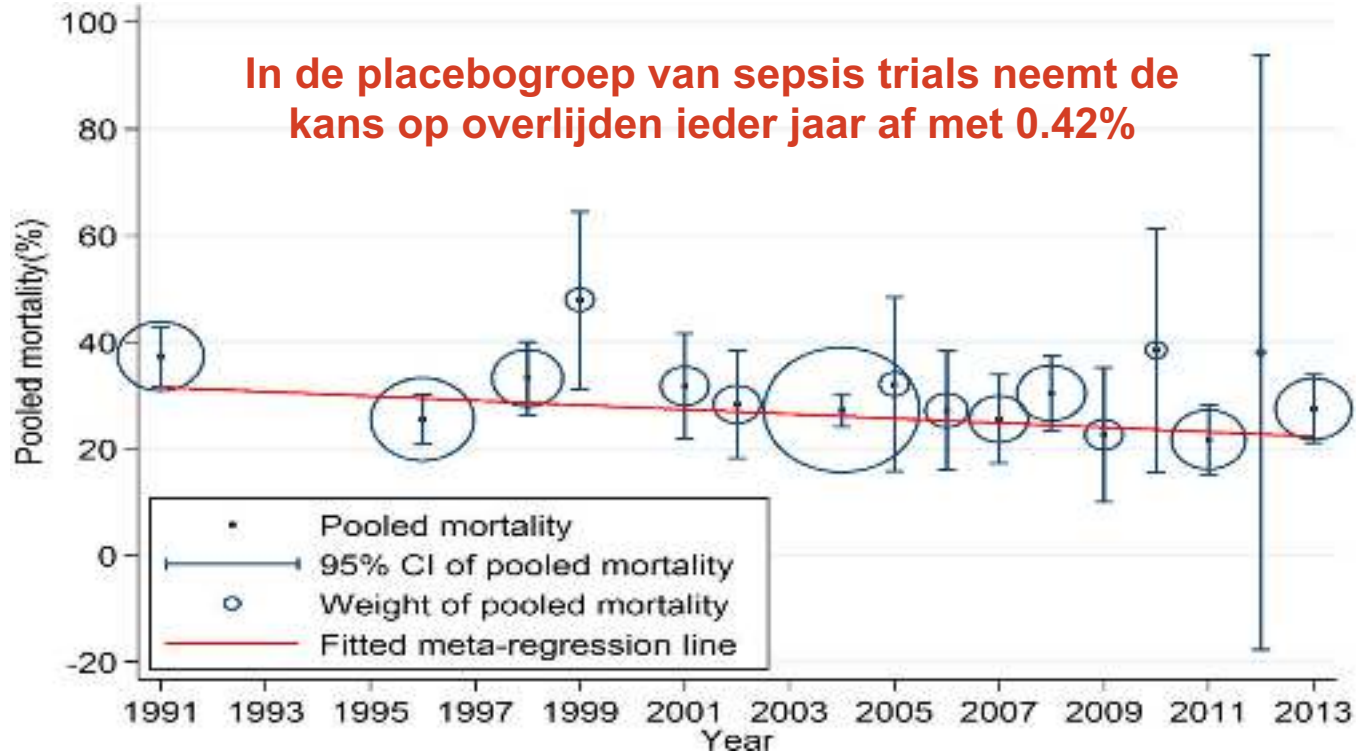
Prescott, JAMA 2018

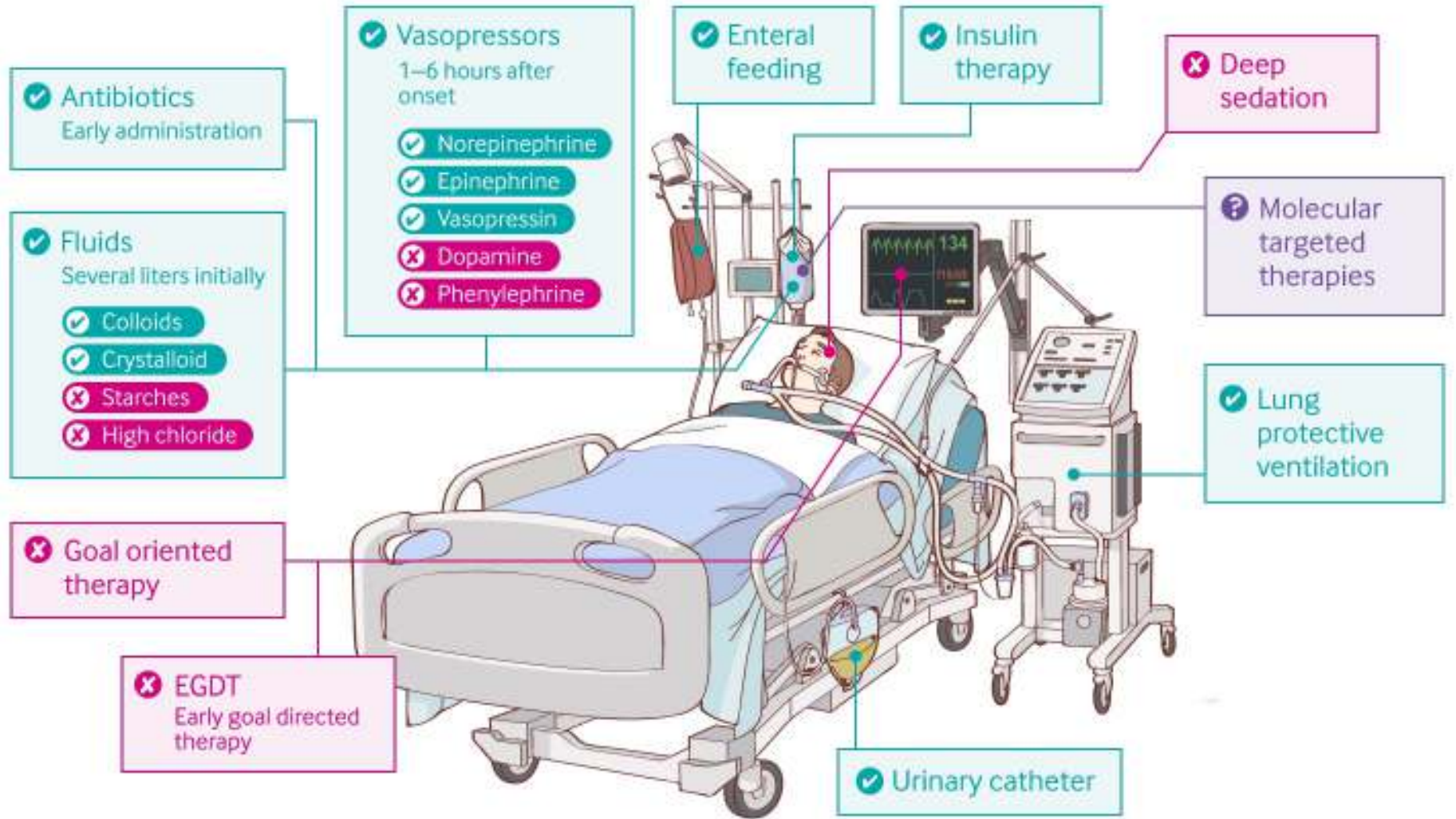
Ook de zorgkosten zijn enorm



Sterfte door sepsis lijkt langzaam te dalen

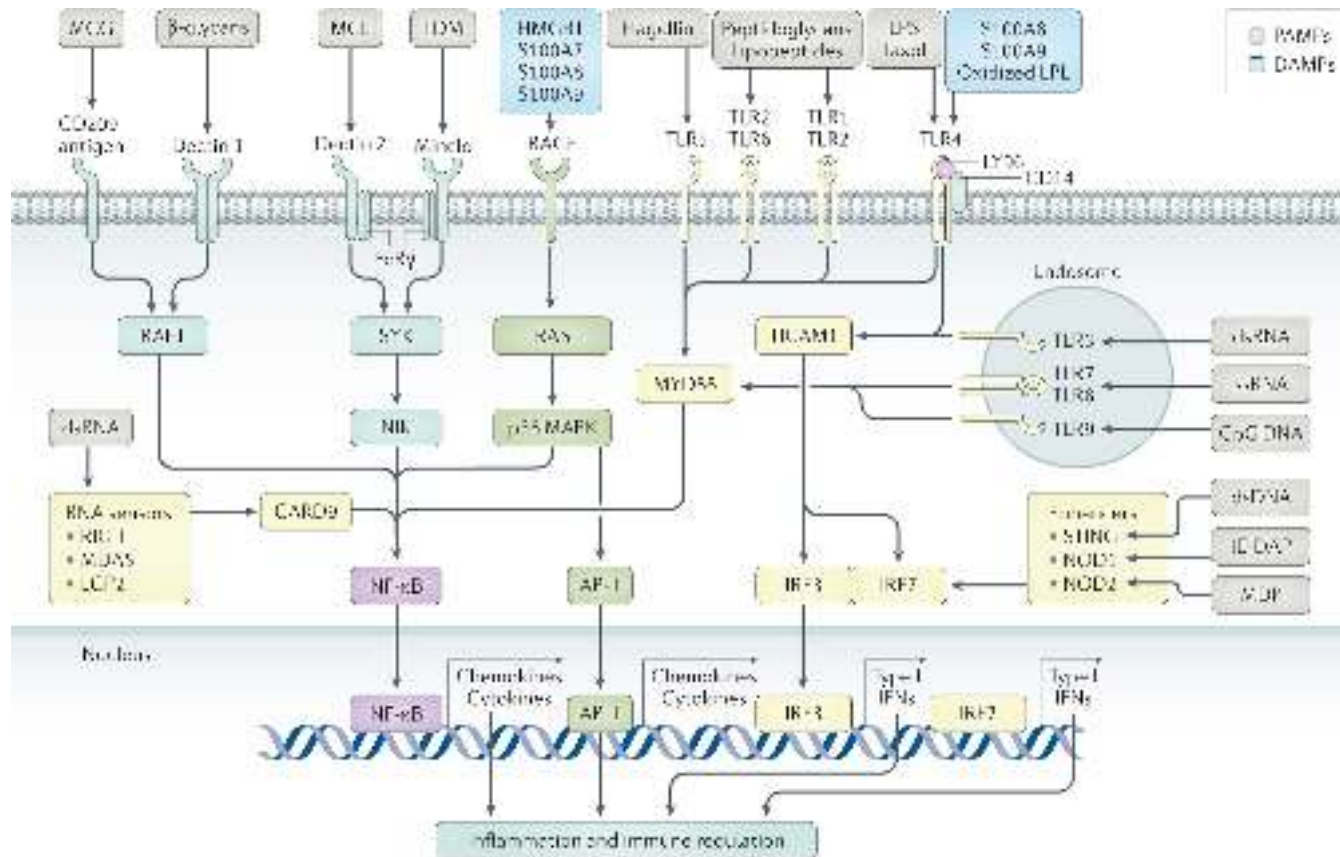
Luhr, Crit Care 2019



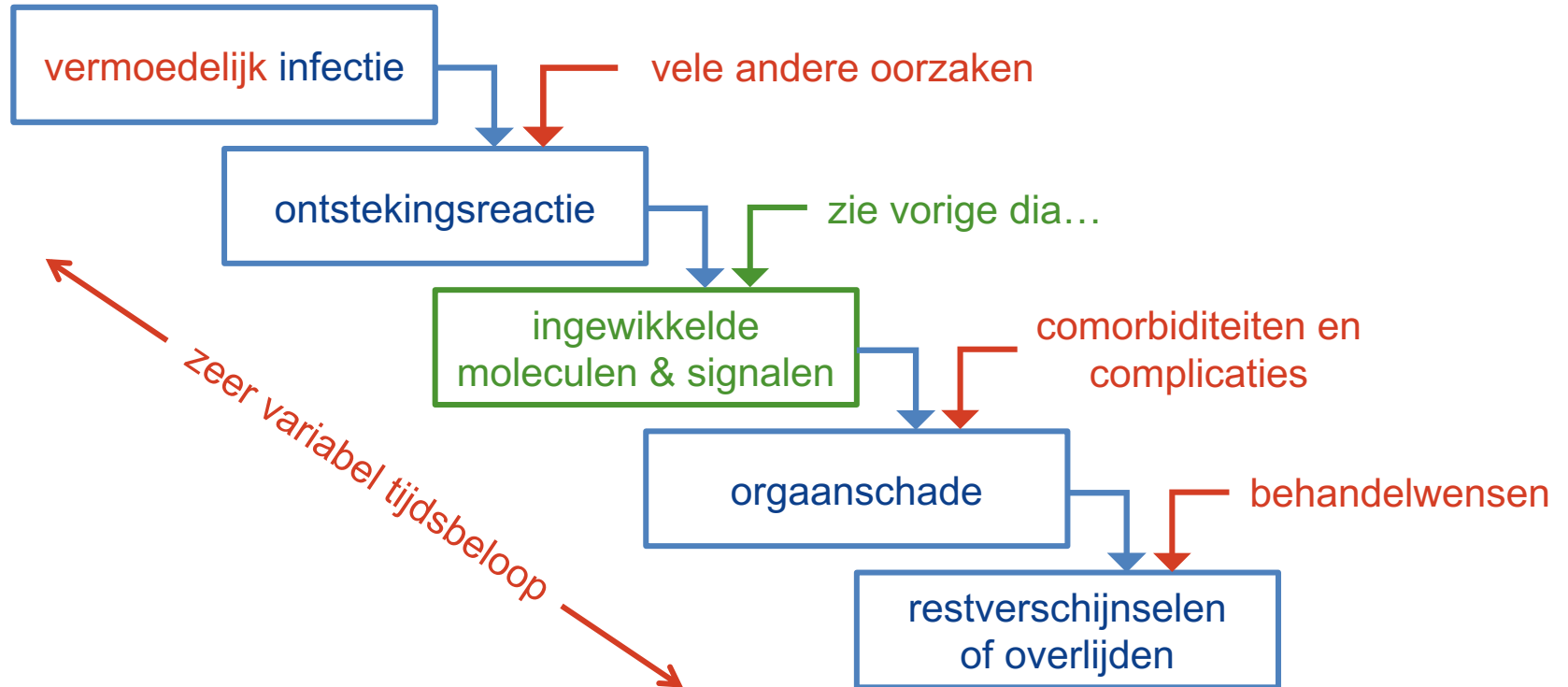


	Polymyxin B
	Conjugate
	Extracorporeal column
	Lipid emulsion
Tumor necrosis factor (TNF)	Monoclonal or polyclonal antibodies
	Soluble receptor constructs
Interleukin-1 (IL-1)	Recombinant IL-1 receptor antagonist
Platelet activating factor (PAF)	Small molecule inhibitors
	PAF acetylhydrolase
Eicosanoids	Ibuprofen
	Soluble phospholipase A2 (sPLA2) inhibitor
Nitric oxide	L-NMMA
	Methylene blue

Pathofysiologie voor *dummies*



Pathofysiologie voor *epidemiologen*



Sepsis is geen **ZIEKTE**

Sepsis is zelfs geen **SYNDROOM**

Sepsis is slechts een **RISICOGROEP**



14,534 patients

UMC Utrecht 2011-2020
Amsterdam UMC 2011-2013

15,694 hospital admissions

17,287 ICU admissions with LOS >48h

10,208 (59%)
never had sepsis

7,079 (41%)
ever had sepsis

Prospective adjudication of
all (suspected) infections

Daily plasma samples
collected in all patients
(>500,000 aliquots in store)

9,800 sepsis episodes

6,913 (71%)
admission events

2,887 (29%)
ICU-acquired events



Nederlandse corona-blaastest 'waar heel de wereld jaloers op is' werkt niet goed: GGD weigert gebruik

Hoe artsen en boeven in de ban raakten van die ene 'wonderpil' chloroquine

There is **NO COST**
to getting things **WRONG**

THE COST is not
getting them **PUBLISHED**

REPLICATIE
VOOR
DOORBRAAK

The diagram consists of three interlocking puzzle pieces. The top piece is blue and contains the text 'REPLICATIE VOOR DOORBRAAK'. The bottom-left piece is red and contains 'MINDER IS MEER'. The bottom-right piece is green and contains 'METHODE BOVEN RESULTAAT'. The pieces are arranged in a triangular pattern, with the top piece overlapping the two bottom pieces.

MINDER
IS
MEER

METHODE
BOVEN
RESULTAAT

CONCLUSIE