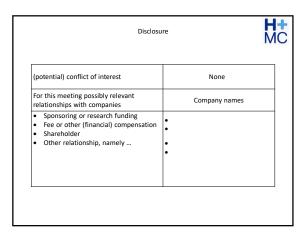
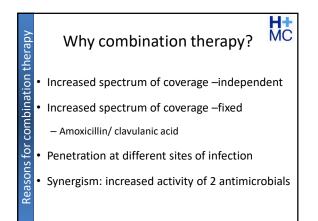
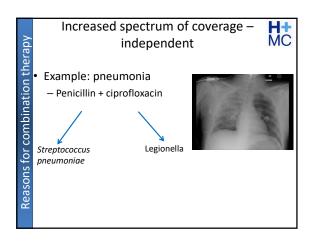


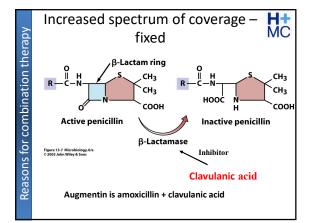
H+ MC

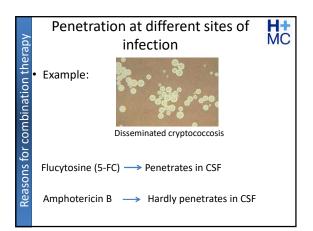
Anouk Muller Clinical microbiologist Haaglanden Medical Center, The Hague

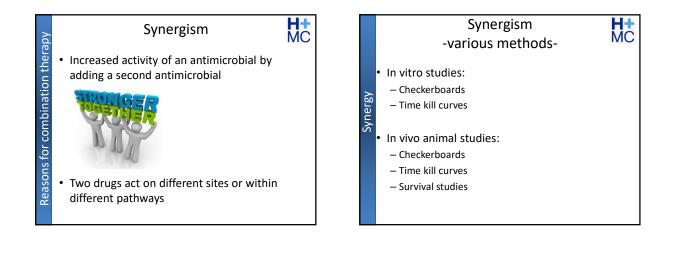


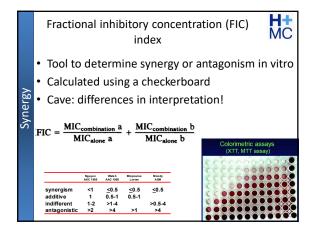


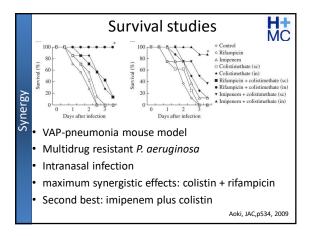


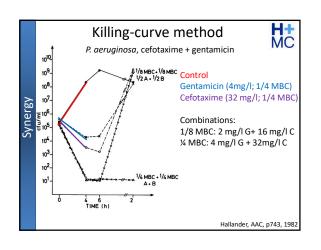


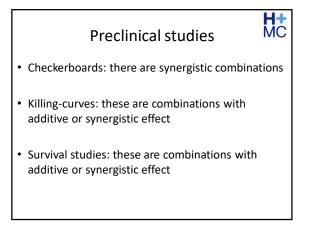




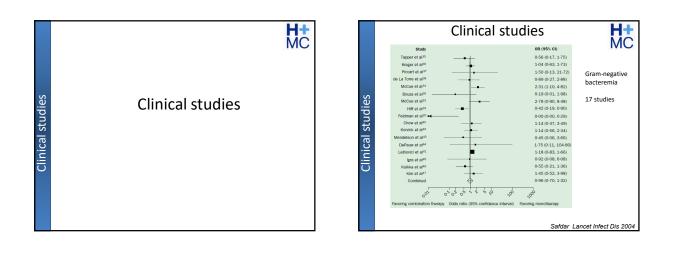


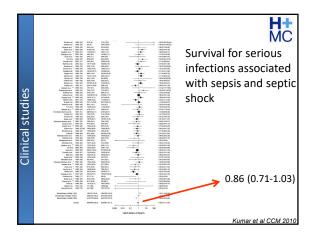


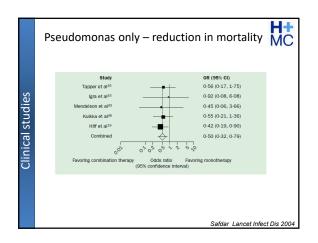


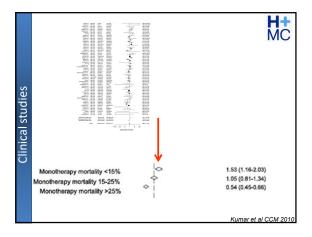


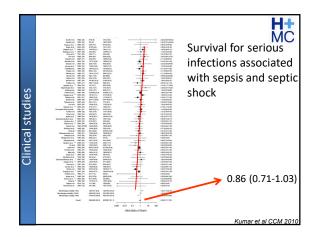
## 21-12-2017











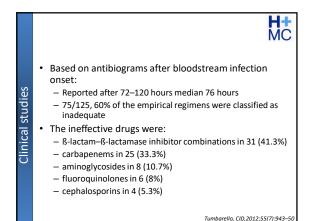
## Treatment of KPC-producing *K. pneumoniae* strains

- multicenter retrospective cohort study, (3 large Italian teaching hospitals)
- 125 patients with bloodstream infections caused by KPC-producing Kp
- Outcome: death within 30 days of the first positive blood culture
- Analysis:

Clinical studies

Monotherapy vs combination therapy?Other factors influencing outcome?

Tumbarello, CID,2012;55(7):943–5



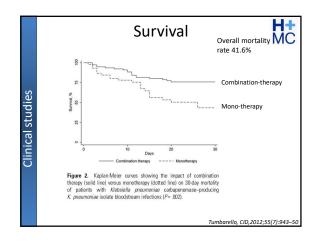
 Univariate analysis antibiotic regimes
 Image: Control of the series

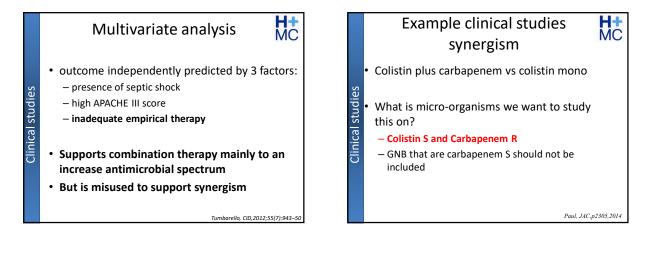
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 100,000

 Operation
 100,000

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## Bias in the existing studies

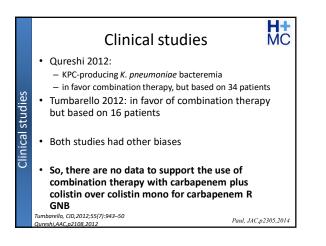
H+ MC

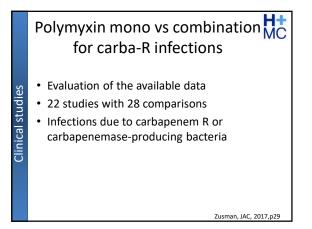
Paul, JAC,p2305,2014

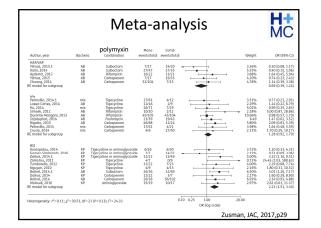
- Many studies included carbapenem susceptible strains
- Often observational retrospective design
- Selection bias

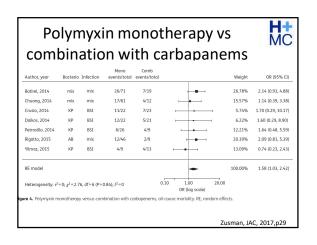
<u>Clini</u>cal studies

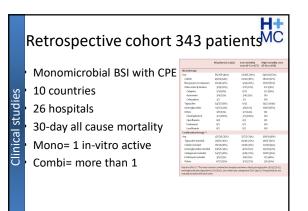
- Patients with carbapenem R strains are more likely to be more severily ill at baseline and have more comorbitity
   That comorbidity will most likely determine the outcome
- Choosing combination vs monotherapy was not random
- Bias in the existing studies (2)
  For severe infection there are 7-10 variables known to determine outcome
  So, if you want to study one of them. You need 100rds-1000nds of patients in a study











Gutiérrez-Gutiérrez, 2017, Lancet ID

