

What's new in Washington ?





# Mono or bitherapy for suspected septicemic *S. pneumoniae* CAP

- No RCT: retrospective or observational studies

If positive effect, only in

« Critically ill » patients...

→ Immunomodulatory role of macrolides?

- Excepted MOTIVE Study (Torrès CID 2008)

PRDB : mono  $\emptyset$  is not < to combinaison

ICAAC:Posters :CAPO study(Repetto): =

# MSSA ? Does it still exist ?

- Lots of papers on c-MRSA infections
  - +/- 50% of the S.aureus in cellulitis with drainage in the USA....
  - IDSA Guidelines for SSTI:
    - Empiric treatment cover cMRSA in cellulitis and cSSTI
    - Vanco = Dapto = Linezolid if severe/IV
    - Clinda or SXT or Tetra if oral

# AB strategies in the treatment of orthopedic infections

## Trampuz (Basel)

- Always with rifampicin + another active drug
- Dosage: 450 mg BID  
↓ to 300 BID only if intolerance
- Duration: from 3 (hip) to 6 months (knee)
- If reimplantation: prophylaxis as usual  
( no consensus >< after sampling)

# Does this diabetic patient have osteomyelitis?

- Metaanalysis of 21 articles (Butalia, JAMA 2008)

Osteomyelitis correlated with :

- « probe to bone »
- ulcer area > 2 cm
- SR > 70
- abnormal plain X Ray

with the MRI > WBC > X Ray (Berendt 2008)

# Treatment of multi R GNB with colistin

- Predicting efficacy: AUC/MIC  
(in vitro and animal models)
- TID → QD: no ≠ in bacterial killing  
(Bergen, JAC 2008)

But less emergence of R with TID...

- Toxicity: ↑ if higher doses / less frequently
- Combination therapy against *A baumannii*:
  - if colistin I/R: become S to rif/teico/erythro...!
  - synergy with rif/teico (Li, unpublished)

# In the air....

- Aerosolized AB:

Several phase 2 studies with:

- Aztreonam

- Liposomal amikacin

- Cipro

- Levo

Until now: no proof of benefit....

# Mimi ,Mama and Sputnik...

- No, it isn't a band....Raoult team, Nature 2008

-Mimivirus: « Giant « virus:

3x normal viral size ...

( with Mamavirus: still bigger...)

with inside the giant virus factory found in the  
infected amoebae, a Sputnik virus

= virophage, deleterious to the giant virus/  
potential vehicle for lateral gene transfer

# And Flu?

- Vaccination of pregnant women protect their children (NEJM 2008:359:1555 Zaman and al)
  - ↓ 29% in RTI with fever
- Conflictual publications on protective effect against CAP in elderly:
  - NEJM 2007 Nichol: ↓ hospit for CAP
  - Lancet 2008 Jackson: no effect...

# Tuberculosis

- WHO 2008 : 490.000 MDR  
40.000 XRD
- In most countries, XDR associated with AIDS,  
with XDR= 2-6 % of the MDR
- Cure significantly linked to:
  - >5 drugs-longer treatment- DOTS
  - Use of ethambutol/pyrazinamide if still S
  - Use of FQ if S
  - Surgery

# Do we need FQ in Tuberculosis ?

- Rapid in vitro killing, similar to INH  
Four Phase 2 trials recently published/submitted:

-Moxi  $\geq$  Ethambutol = Oflo

-Moxi = INH

No problem with safety

→Phase 3 trials ongoing, to try to  
shorten therapy (4 months?)  
when replacing INH or Ethambutol...

# And the tropics...?

- *P. knowlesi*: ± *P. malariae*, but:
- -parasitemia+++
- - inducing death....
- - Malaisia and Bornéo  
? Others SEA countries

# And malaria?

- Prophylaxis:

Nothing new: the « Loch Ness monster »

Tafenoquine is still there...

- Treatment:

Some signs of R to artemisinin??:

↑ IC<sub>50</sub> /time to clearance in Cambodia

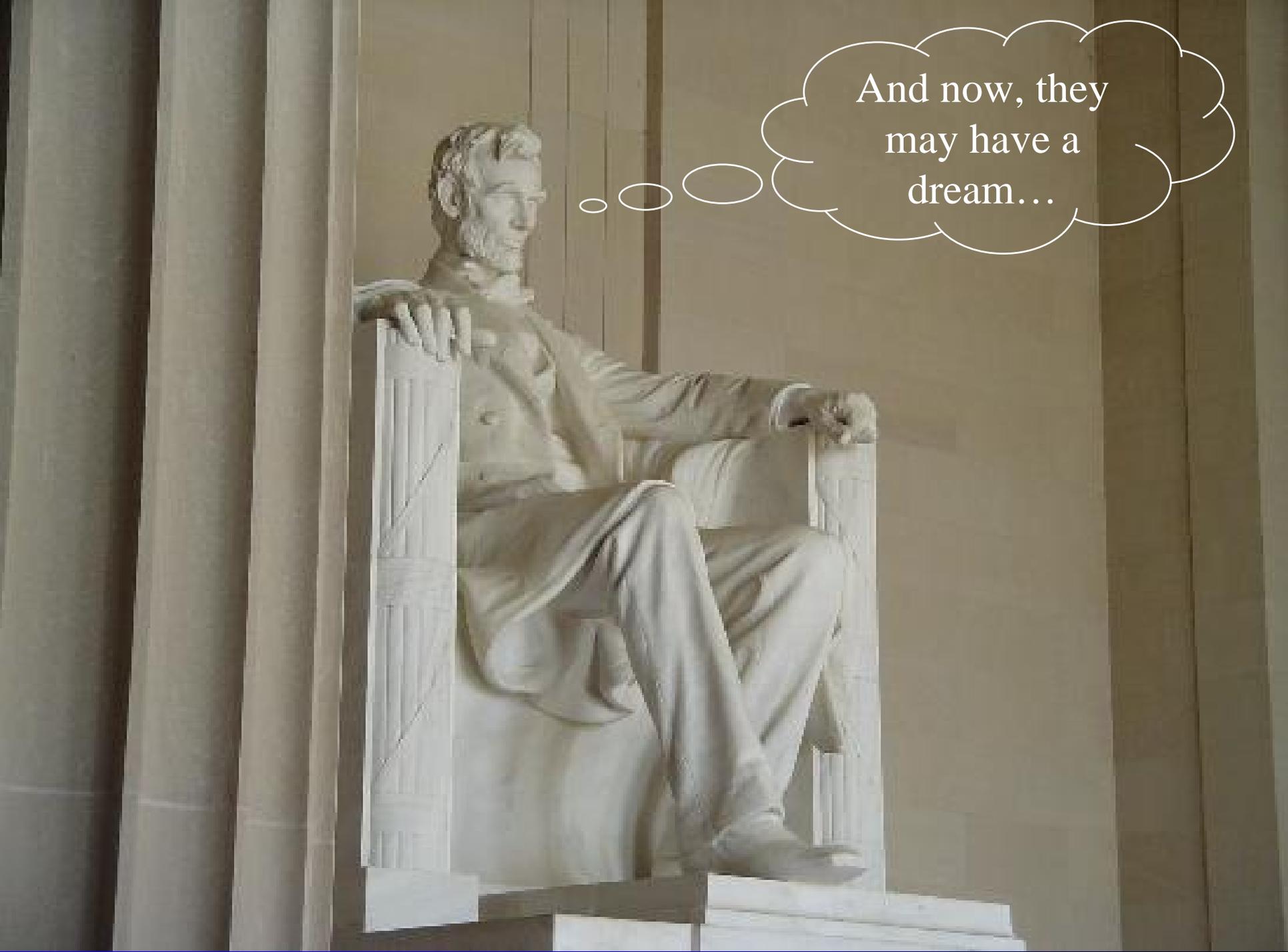
New drugs: artemisinin derivatives

PI !!( but delayed...)

**And what's outdated in Washington?**





A marble statue of Abraham Lincoln is seated in a large, ornate chair. The statue is positioned in the center-left of the frame, facing slightly to the right. The background consists of vertical wooden panels. In the upper right corner, a white thought bubble contains the text "And now, they may have a dream...".

And now, they  
may have a  
dream...