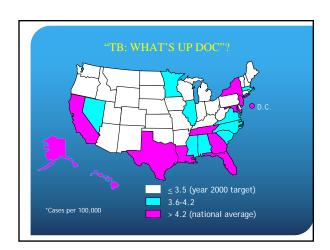
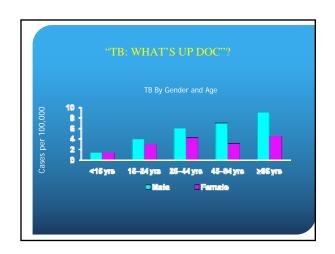
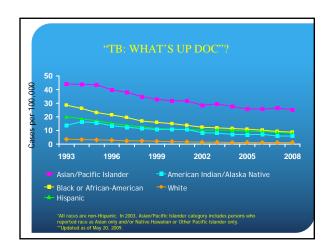
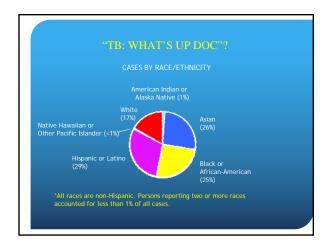


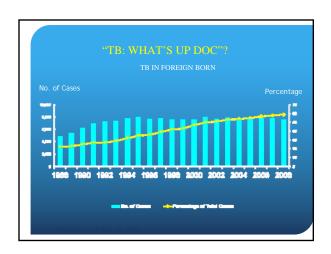
| Year | | Rate* |
|------|--------|-------|
| 2003 | 14,836 | 5.1 |
| 2004 | 14,500 | 4.9 |
| 2005 | 14,067 | 4.7 |
| 2006 | 13,727 | 4.6 |
| 2007 | 13,288 | 4.4 |
| 008 | 12,904 | 4.2 |

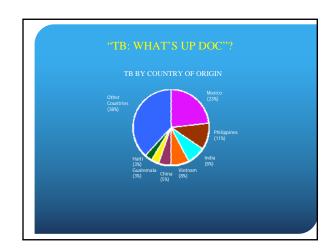


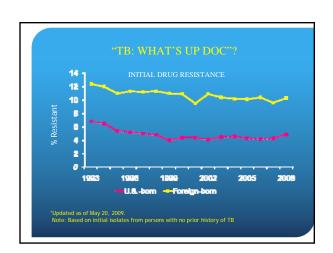


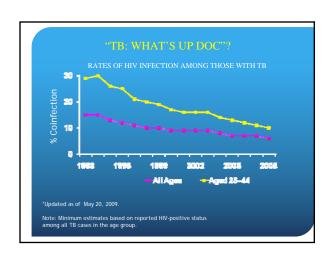


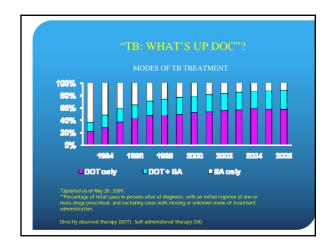












Treatment of Latent TB Infection (TLTI)

*ATS/CDC Guidelines (2000): options –
a. INH 9 mos
b. INH 6 mos
c. RIF/PZA 2 to 3 mos
d. RIF 4 mos

TLTI: Rationale for RIF use -

- Superior sterilizing capacity:

 *INH based regimens 18 mos to cure

- 3. Fewer CNS side-effects
- Substantially better completion rates

"TB: WHAT'S UP DOC"

TLTI: Should RIF-4 be our 1st choice?

*Not as a member of the ATS, CDC Advisory Committee, NJH faculty or University of Colorado faculty, but –

*Based on clinical study of Menzies' group, (1) Reichman's decision Analysis, (2) Stout's cost effectiveness analysis, (3) and my personal experience,

Ves'

¹AJRCCM, 170:445-449 (2004) ²Chest 130:1712-1717 (2006) ³AJRCCM 179:1055-1060 (2009)

"TR: WHAT'S UP DOC"?

Drawbacks to RIF:

- 1. Risk of acquired (R) to RIF [not for use in HIV (+)]
- 2. Drug interactions
- 3. Thrombocytopenia
- 4. Inertia (initial costs)

"TB: WHAT'S UP DOC"?

"HIV IN THOSE WITH MDR-TB/XDR-TB RESULTS IN HIGH EARLY MORTALITY"

- Population: 272 MDR and 382 XDR cases, Tugela-Ferry, 2005-7
- High rates of HIV: MDR = 245 of 272 (90%) HIV (+)

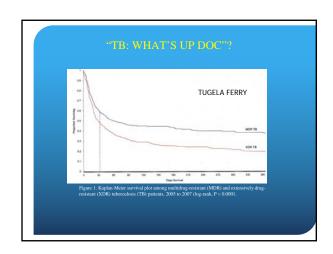
XDR = 374 of 382 (98%) HIV (+)

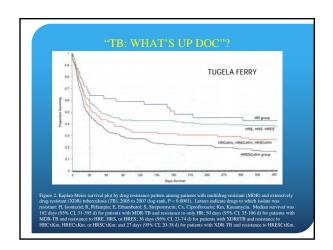
Mortality: <u>MDR</u> <u>XDR</u>

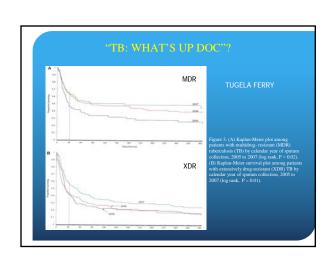
1 year 71% 83%

Gandhi et al, AJRCCM, 181:80-86, 2010

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"TR: WHAT'S UP DOC"?

A MYSTERIOUS SUB-GROUP OF TR ORGANISMS:

A Sentinel Insight or Voodoo?

"Is there a population of tubercle bacilli in sputum which is not detected on routine culture, which can be stimulated to growth by RESUSCITATION-PROMOTING FACTORS" (Rpfs) produced by the mycobacteria"?

Mukamolova, et al, AJRCCM; 181:174-180, 2010

"TR: WHAT'S LIP DOC"?

Findings regarding **Rpfs** in pre-treatment samples:

- 80% to 99% of cells ultimately identified on cultivation "could be detected only with RPF stimulation"
- During chemotherapy, "THE PROPORTION OF RPF-DEPENDENT CELLS WAS FOUND TO INCREASE RELATIVE O THE SURVIVING COLONY-FORMING POPULATION."
- Rpf dependent bacillary populations varied widely between patients; Rpf = proteins produced by bacilli
- Query role in slow sterilization and relapses of TB

Mukamolova, et al, AJRCCM; 181:174-180, 2010

"TB: WHAT'S UP DOC"?



"THAT WASCAL WABBIT WILL NOW TWY TO ANSWER YOUR INQUIWIES"