Clinical Use of Antibiotic In Children





By
Keswadee Lapphra, MD
Department of Pediatrics,
Faculty of Medicine Siriraj Hospital,
Mahidol University

Otitis Media: To Treat or Not to Treat?

Guidelines	Children < 2 years	Children > 2 years
2004 US-AAP*	ATB in all < 6 M, or certain Dx or severe (even uncert (ATB no improvement in 48-	•
1990 Dutch College of General Practitioners Guidelines* *	Symptomatic Rx Mandatory contact after 24 hr If no improvement, ATB, or symptomatic Rx for a further 24 hr	Symptomatic Rx If symptoms persist after 3 days, re-evaluate and ATB if needed

*Pediatrics 2004;113:1451-65 **Froom J et al. BMJ. 1997;315:98-102.

The Most Appropriate 1st Line Drug for AOM is Amoxycillin

- · S.pneumoniae is the most common cause
- · S.pneumoniae is least likely to cure without ATB
- Increased resistance of S.pneumoniae (>40% in Thailand)
- Amoxycillin give the longest time above MIC_{90} for DRSP
- · May increase amoxycillin dose without A/E
- · Amoxycillin is the cheapest

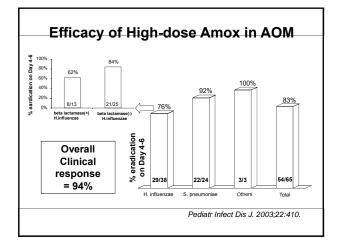
The Best ATB for DRSP is Amoxycillin!

Rationale to Increase the dosage of Amoxycillin

- In low risk for DRSP (MIC₉₀ = 2-4 mcg/ml)
 45-50 MKD ->>Est. MEF level 1-6 mcg/ml
- In high risk for DRSP
- >> 80-90 MKD ->>Est. MEF level 3-8 mcg/ml
- · Risk for DRSP:
 - >> Recent antimicrobial exposure (within 3 mo)
 - >> Young age (<2 yo.)
 - >> Day-care attendance

Dowell. PIDJ 1999;18:1-9.

AAP 2003 recommend start with high dose in all



Second Line Treatment Regimens After Failing Amoxycillin		
Opinion for Thailand		
High-Dose Amox-clav (80-90/6.4 MKD) Cefuroxime (30)		
Cefdinir (14) Cefpodoxime (10) Cefditoren (3-6)		