263 children screened

123 children enrolled

112 children included in cohort
- 103 untreated
- 9 treatment failures

11 children excluded*
- 5 received systemic antibiotics in past 72 hours for disease other than AOM
- 3 onset of AOM > 72 hours prior to diagnosis
- 5 did not meet criteria for AOM
- 1 hospitalized during AOM
- 1 provided antibiotics by ENT prior to tympanocentesis

118 samples**
- 107 collected by tympanocentesis
- 11 collected by otorrhea

61 samples – cultures yielded no study pathogen

57 samples – cultures yielded study pathogen
- 27 S. pneumoniae
- 21 H. influenzae
- 4 S. pyogenes
- 7 M. catarrhalis

140 children not enrolled
- 52 spontaneous otorrhea > 24 hours
- 34 no indication for tympanocentesis
- 17 exceeded 20% otorrhea guideline
- 11 parent refused enrollment
- 26 not enrolled for other reasons