SDC 1: Tympanic membrane severity scoring (OS-8) and characteristics of TM in 294 AOM episodes

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|  | **n** | **(%)** |
| OS-8a score  |  |  |
| 2 (erythema, air-fluid level, clear fluid) | 5 | (2) |
| 3 (erythema, complete effusion, no opacification) | 12 | (4) |
| 4 (erythema, opacification, air-fluid level b) | 68 | (23) |
| 5 (erythema, complete effusion and opacification b) | 105 | (36) |
| 6 (erythema , bulging, rounded donut appearance of TM) | 76 | (26) |
| 7 (erythema, bulging, complete effusion, opacification, bulla formation) | 10 | (3) |
| 8 (perforation of TM/otorrhea) | 18 | (6) |
|  |  |  |
| Position **c** (n=274) |  |  |
|  Bulging d | 85 | (31) |
|  Full (mild bulging) | 132 | (48) |
|  Non-bulging d | 57 | (21) |
| Color **c** (n=272) |  |  |
|  Red e | 69 | (25) |
|  Dull/white | 112 | (41) |
|  Blue/yellow/ fluid | 91 | (34) |
| Translucency **c** (n=272) |  |  |
|  Translucent f | 14 | (5) |
|  Opaque | 257 | (95) |

1. OS-8 (Otoscopic scoring of severity of acute TM inflammation) score of the worse ear from 294 AOM episodes. Acute perforation of TM/otorrhea was given OS score 8. Otoscopic pictures are available at: <http://www.utmb.edu/pedi_ed/AOM-Otitis/grading.htm>
2. No bulging or mild bulging
3. Otoscopic findings of AOM ears with intact TM (n=276). AOM episodes with TM perforation and acute otorrhea (18 episodes, 19 ears) are not included. In case of bilateral AOM, findings are from the worse ear. Number in parentheses is number of cases with available data. Bullous myringitis was found in 10 cases. Normal color=grey/ pearly.
4. Bulging TM= donut appearance, no visible landmark. Non-bulging TM includes TM with normal (n=52) or retracted (n=5) positions; TM inflammation was evidenced by abnormal TM color (n=51), opacification (n=40) or both. MEF was documented in all cases by abnormal mobility, opacification, and by tympanometry.
5. Significant erythema
6. TM inflammation was based on abnormal TM color, significant erythema in 13 and blue/yellow/fluid in 1.