

Table: Acute Mastoiditis Episodes Necessitating Imaging Studies

	Age	Sex	ABx prior to hospital	CT			MRI		Surgery ²	Culture ³
				Day ¹	Reason	Findings	Day ¹	Findings		
Children <2 years										
1	11m	F	amoxicillin	5	SA	SA	-	-	Aspiration	-
2	9m	F	amoxicillin	10	FNS	-	-	-	-	<i>S. pneumoniae</i>
3	9m*	M	-	9	FNS	SA, EA	-	-	+	<i>S. pneumoniae</i>
4	12m [†]	F	-	4	LOI	SA	-	-	Aspiration	<i>H. influenzae</i>
5	13m [†]	F	-	5	LOI	SA, susp IJVT	+(6)	no IJVT	+	-
6	16m	M	-	13	LOI	SA	-	-	+	<i>S. pneumoniae</i>
7	16m*	M	amoxicillin	4	SA	SA	-	-	+	<i>S. pneumoniae</i>
8	18m	M	amoxicillin	5	FNS	SA, EA	-	-	+	-
9	19m [†]	M	amoxicillin, ceftriaxone	15	LOI	SA, susp IJVT	+(16)	IJVT	+	-
10	19m	M	amoxicillin	4	LOI	PSE	-	-	+	-
11	21m [†]	M	-	0	SA	SA	-	-	+	-
12	23m [†]	M	amoxicillin	3	SA	SA	-	-	+	-
Children 2-8 years										
13	2y	M	-	5	SA	SA, IJVT	-	-	+	-
14	3y*	M	-	8	FNS	-	+(9)	DE	-	-
15	4y	M	-	11	SA	SA	-	-	+	<i>S. pneumoniae</i>
16	5y	F	amoxicillin	11	SA	SA, PSE	-	-	+	-
17	6y	M	amoxicillin	7	SA	Luc's abscess	-	-	+	-
18	5y	F	amoxicillin	0	LOI	-	-	-	-	<i>S. pneumoniae</i>
19	7y	M	-	7	SA	SA	-	-	+	-
20	7y	M	-	7	LOI	-	-	-	-	-

ABx, antibiotic therapy, CT, computerized tomography, MRI, magnetic resonance imaging: SA, subperiosteal abscess, FNS, focal neurological signs, LOI, lack of improvement despite adequate antibiotic therapy, EA, epidural abscess, IJVT, internal jugular vein thrombosis, PSE, perisinus empyema, DE, dural enhancement

In all CT scans, opacification of the involved middle ear and mastoid were observed.

¹Day of CT/MRI imaging in AM course. Day "0" was considered when AM was diagnosed.

²Surgery included mastoidectomy, drainage of all abscesses/thrombosis and insertion of ventilating tube. In 2 children, needle aspiration was performed to drain SA.

³Culture results pooled from all middle ear fluid, blood, cerebrospinal fluid, abscess and mastoidectomy specimens in each child.