

Acinetobacter calcoaceticus

Acinetobacter calcoaceticus is a bacterial species of the genus *Acinetobacter*. It is a nonmotile, Gram-negative coccobacillus. It grows under aerobic conditions, is catalase positive and oxidase negative. *A. calcoaceticus* is a part of the *A. calcoaceticus*-*A. baumannii* complex together with *Acinetobacter baumannii*, *Acinetobacter nosocomialis*, *Acinetobacter pittii* and *Acinetobacter seifertii*.

Since the 1990s, [antimicrobial resistance](#) (AMR) has escalated dramatically among *Acinetobacter baumannii*-calcoaceticus complex [ABC]). Global spread of multidrug-resistant (MDR)-ABC strains reflects dissemination of a few clones between [hospitals](#), geographic regions, and continents; excessive [antibiotic](#) use amplifies this spread. Many isolates are resistant to all antimicrobials except colistimethate sodium and [tetracyclines](#) ([minocycline](#) or [tigecycline](#)); some infections are untreatable with existing antimicrobial agents. AMR poses a serious threat to effectively treat or prevent ABC infections. Strategies to curtail environmental colonization with MDR-ABC require aggressive infection-control efforts and cohorting of infected patients. Thoughtful antibiotic strategies are essential to limit the spread of MDR-ABC. Optimal therapy will likely require combination antimicrobial therapy with existing [antibiotics](#) as well as development of novel antibiotic classes ¹⁾.

2: Mazzeo AT, Bullock R. Effect of bacterial meningitis complicating severe head trauma upon brain microdialysis and cerebral perfusion. *Neurocrit Care*. 2005;2(3):282-7. doi: 10.1385/NCC:2:3:282. PMID: 16159076.

3: Chandra R, Kapil A, Sharma P, Das B. Identification of *Acinetobacter* species isolated from clinical specimens by amplified ribosomal DNA restriction analysis. *Indian J Med Res*. 2002 Jul;116:1-4. PMID: 12514971.

4: Filka J, Huttova M, Schwartzová D, Kurak M, Krcmeryová T, Tuharský J, Kralinský K, Sagát T, Krcmery V Jr. Nosocomial meningitis due to *Acinetobacter calcoaceticus* in 10 children after ventriculoperitoneal shunt insertion. *J Hosp Infect*. 2000 Jan;44(1):76-7. doi: 10.1053/jhin.1999.0641. PMID: 10633059.

5: Filka J, Huttova M, Tuharsky J, Sagat T, Kralinsky K, Krcmery V Jr. Nosocomial meningitis in children after ventriculoperitoneal shunt insertion. *Acta Paediatr*. 1999 May;88(5):576-8. doi: 10.1080/08035259950169620. PMID: 10426184.

6: Gerner-Smidt P, Hansen L, Knudsen A, Siboni K, Søgaaard I. Epidemic spread of *Acinetobacter calcoaceticus* in a neurosurgical department analyzed by electronic data processing. *J Hosp Infect*. 1985 Jun;6(2):166-74. doi: 10.1016/s0195-6701(85)80094-3. PMID: 2862191.

7: Kobayashi TK, Yamaki T, Yoshino E, Terawaki S, Tara K, Nishida K, Sawaragi I. Meningitis with *Acinetobacter calcoaceticus* in cerebrospinal fluid. A case report. *Acta Cytol*. 1983 May-Jun;27(3):281-4. PMID: 6575544.

8: Berk SL, McCabe WR. Meningitis caused by *Acinetobacter calcoaceticus* var *anitratus*. A specific hazard in neurosurgical patients. *Arch Neurol*. 1981 Feb;38(2):95-8. doi: 10.1001/archneur.1981.00510020053007. PMID: 7469844.

9: Yogeve R. Ventriculitis from *Acinetobacter calcoaceticus* variant anitratus. J Neurol Neurosurg Psychiatry. 1979 May;42(5):475-7. doi: 10.1136/jnnp.42.5.475. PMID: 448387; PMCID: PMC490237.

10: METELKA M, VANCURIK J. [Bacterium anitratum as the pathogen of postoperative infection of the central nervous system]. Zentralbl Neurochir. 1963;23:176-81. German. PMID: 13935180.

1)

Lynch JP 3rd, Clark NM, Zhanel GG. Infections Due to *Acinetobacter baumannii*-calcoaceticus Complex: Escalation of *Antimicrobial Resistance* and Evolving Treatment Options. Semin Respir Crit Care Med. 2022 Feb;43(1):97-124. doi: 10.1055/s-0041-1741019. Epub 2022 Feb 16. PMID: 35172361.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=acinetobacter_calcoaceticus

Last update: **2024/06/07 02:54**

