**HALOS DE INHIBICION CLSI: FEBRERO 2023 M100 33th ed. VALIDO: HASTA MARZO DEL 2024**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  **ANTIMICROBIANO** | **GEN** | **SIGLA** | **POTENCIA** | **RESISTENTE** | **SUSCEPTIBLE** |
| **AMIKACINA**  |  | **AK** | **30 mcg** | **16 mm (14)P orina O** | **20 mm (17)P orina O** |
| **AMPICILINA** |  | **AM** | **10 mcg** | **13 mm (28)\* (18)H (16)E (23)Sb** | **17 mm (29)\* (22)H (17)E (24)Sb** |
| **AMP-SULBACTAM** |  | **SAM** | **10/10 mcg** | **11 mm (19)H** | **15 mm (20)H** |
| **AMOXICILINA** |  | **AX** | **25 mcg** | **13 mm** | **17 mm** |
| **AMOX-.CLAVULANICO** |  | **AMC** | **20/10 mcg** | **13 mm (19)\* (19)H** | **18 mm (20)\* (20) H** |
| **AMOX-SULBACTAM** |  | **SO** | **10/10 mcg** | **13 mm (19)\* (19)H** | **18 mm (20)\* (20) H** |
| **ACIDO NALIDIXICO** |  | **W** | **30 mcg** | **13 mm (25)Nm** | **19 mm (26)Nm** |
| **ACIDO OXOLINICO** |  | **O** | **2 mcg** | **10 mm** | **11 mm** |
| **ACIDO PIPEMIDICO** |  | **PI** | **20 mcg** | **13 mm** | **19 mm** |
| **AZITROMICINA** |  | **AZT** | **15 mcg** | **13 mm(12) Eb (11)H (19)Nm (29)N(10)Shigella** | **18 mm (13) Eb (12)St,H (20)Nm(30)N(16) Shigella** |
| **AZTREONAM** |  | **AZ** | **30 mcg** | **15 mm (17) Eb (25)H** | **22 mm (21)Eb (26)H (27) BLEc** |
| **CEFADROXILO**  |  **(1)** | **CPH** | **30 mcg** | **14 mm** | **18 mm** |
| **CEFACLOR** |  **(2)** | **FAC** | **30 mcg** | **14 mm (16)H** | **18 mm ((20)H** |
| **CEFALEXINA** |  **(1)** | **CN** | **30 mcg** | **14 mm** | **18 mm** |
| **CEFALOTINA**  |  **(1)** | **CF** | **30 mcg** | **14 mm** | **18 mm** |
| **CEFAZOLINA**  |  **(1)** | **CEZ** | **30 mcg** | **19 mm (14)Inf.UrinariasNo complicadas** | **23 mm (18)\*(15)Inf.UrinariasNo complicadas** |
| **CEFAMANDOL** |  **(2)** | **CMA** | **30 mcg** | **14 mm** | **18 mm** |
| **CEFEPIME**  |  **(4)** | **CPM** | **30 mcg** | **18** **mm (30)N (25)H (21)Sv(23)Sb,(14) Ac,P** | **25 mmSDD (31)N (26)H (24)Sv,Sb (14)P (18)Ac,P** |
| **CEFIXIMA**  |  **(3)** | **CFM** | **5 mcg** | **15 mm (20)H (30)N**  | **19 mm (21)H (31)N** |
| **CEFOPERAZONA** |  **(3)** | **CFP** | **75 mcg** | **15 mm** | **21 mm** |
| **CEFOPER-SULBACTAM** |  **(3)** | **SFP** | **30/75 mcg** | **15 mm** | **21 mm** |
| **CEFOTAXIMA**  |  **(3)** | **CTX** | **30 mcg** | **14mm (22)Eb (25)Sv,H (30)N (23)Sb (33)Nm** | **23mm(26)Eb,H(31)N(24)Sb(28)Sv(34)Nm(27)BLEc,BLPm** |
| **CEFOXITINA** |  **(2)** | **FOX** | **30 mcg** | **14 mm (21)\*,A,L (23)N (24)\*\*, Se** | **18 mm (22)\*,A,L (28)N (25)\*\*, Se** |
| **CEFPODOXIMA** |  **(3)** | **CPD** | **10 mcg** | **17 mm (20)H (28)N** | **21 mm (21)H (29)N (17)BLEc (22)BLPm** |
| **CEFPROZIL** |  **(2)** | **CPR** | **30 mcg** | **14 mm**  | **18 mm**  |
| **CEFRADINA**  |  **(1)** | **CD** | **30 mcg** | **14 mm** | **18 mm** |
| **CEFTAZIDIMA**  |  **(3)** | **CAZ** | **30 mcg** | **14 mm (17)Eb,B (25)H (30)N**  | **18 mm (21)Eb,B (26)H (31)N (22)BLEc ,BLPm** |
| **CEFTRIAXONA**  |  **(3)** | **CTR** | **30 mcg** | **13 mm (19)Eb (25)H (24)Sv (23)Sb (34)N (33)Nm** | **21 mm (23)Eb (26)H (27)Sv (24)Sb (35)N (34)Nm** |
| **CEFUROXIMA i v**  |  **(2)** | **CXM** | **30 mcg** | **14 mm (16)H (25)N** | **18 mm (20)H (31)N(23)Urinarias No complica.** |
| **CIPROFLOXACINO** |  | **CIP** | **5 mcg** | **21** **mm (20)H (27)N(32)Nm(20)St(18)P (15)Ac,E,\*O** | **26 mm (21)H,Ac,E (41)N (35)Nm (31)St,spp (25)P (21)\*O** |
| **CLARITROMICINA** |  | **CLR** | **15 mcg** | **13 mm (10)H (16)$,Sv,Sb (17)\*** | **18 mm (13)H (21)$,Sv,Sb (18)\*** |
| **CLINDAMICINA** |  | **Da** | **2 mcg** | **14 mm (15)S,$,Sv,Sb** | **21 mm (19)S,$,Sv,Sb** |
| **CLORANFENICOL** |  | **C** | **30 mcg** | **12 mm (25)H,N (20)$ (17)Sv,Sb (19)Nm** | **18 mm (29)H,N (21)$,Sv,Sb (26)Nm** |
| **CLOXACILINA** |  | **CX** | **1 mcg** | **10 mm** | **13 mm** |
| **COLISTIN** |  | **CL** | **10 mcg** | **10 mm** | **11 mm** |
| **DOXICICLINA** |  | **DXS** | **30 mcg** | **10 mm (9)Ac (12)\*,E (24)$** | **14 mm (13)Ac (16)\*,E (28)$** |
| **ENOXACINO** |  | **E** | **10 mcg** | **14 mm (31)N** | **18 mm (36)N** |
| **ERITROMICINA** |  | **EM** | **15 mcg** | **13 mm (15)$,Sv,Sb** | **23 mm (21)$,Sv,Sb** |
| **ERTAPENEM** |  | **ETP** | **10 mcg** | **15 mm (18)Eb (18)H** | **19 mm (22)Eb (19)H** |
| **ESPECTINOMICINA** |  | **ESP** | **100 mcg** | **14 mm** | **18 mm** |
| **ESTREPTOMICINA** |  | **S** | **10 mcg** | **11 mm**  | **15 mm**  |
| **ESTREPTOMICINA 300** |  | **SE** | **300 mcg** | **6 mmE** | **10 mmE** |
| **FLUCLOXACILINA** |  | **FX** |  **1 mcg** | **10 mm** | **13 mm** |
| **FOSFOMICINA** |  | **FO** | **200 mcg** | **12 mm O** | **16 mm O** |
| **FURAZOLIDONA** |  | **FZ** | **100 mcg** | **14 mm** | **17 mm** |
| **GENTAMICINA** |  | **GE** | **10 mcg** | **14 mm (12) \*** | **18 mm (15) \*** |
| **GENTAMICINA 120** |  | **G** | **120 mcg** |  **6 mm E** | **10 mmE** |
| **IMIPENEM \*** |  | **IPM** | **10 mcg** | **13 mm (19)Eb (15)H,P (18)Ac** | **16 mm (23)Eb (16)H (19)P (22)Ac** |
| **KANAMICINA** |  | **K** | **30 mcg** | **13 mm** | **18 mm** |
| **LEVOFLOXACINO** |  | **LVX** | **5 mcg** | **13 mm (16)H (15)\*(14)P(16)Eb** | **17 mm(19)\* (22)P (21)Eb** |
| **LINCOMICINA** |  | **L** | **2 mcg** | **16 mm** | **21 mm** |
| **LINEZOLID** |  | **LZD** | **30 mcg** | **20 mm E** | **21 mm (23)E** |
| **MEROPENEM \*** |  | **MRP** | **10 mcg** | **13 mm (19)Eb(19)H (15)B (29)Nm (15)P (14)Ac** | **16 mm (23)Eb (20)H (20)B (30)Nm (19)P (18)Ac** |
| **MINOCICLINA** |  | **M** | **30 mcg** | **12 mm (25)Nm (14)B,Sm,\*,E** | **16 mm (26)Nm (19)B,Sm,\*,E** |
| **MOXIFLOXACINO** |  | **MXF** |  **5 mcg** | **20 mm (\*) (17)H (14)$** | **24 mm (\*) (18)H (18)$** |
| **NEOMICINA** |  | **N** | **30 mcg** | **12 mm** | **17 mm** |
| **NITROFURANTOINA** |  | **NIT** | **300 mcg** | **14 mm orina O** | **17 mm orina O** |
| **NORFLOXACINO** |  | **NOR** | **10 mcg** | **12 mm orina O** | **17 mm orina O** |
| **OFLOXACINO** |  | **OFL** | **5 mcg** | **12 mm (24)N (14)\* (15)H** | **16 mm (31)N (18)\* (16)H** |
| **OXACILINA** |  | **OX** | **1 mcg** | **19 mm$ (17)Sp,Se,Ssc (24) OSsp** | **20 mm$ (18)Sp,Se,Ssc (25) OSsp** |
| **PENICILINA**  |  | **P** | **10 UOF** | **19 mm $ (28)\* (26)N (14)E (23)Sb** | **20 mm$ (29)\* (47)N (15)E (24)Sb** |
| **PIPERACILINA** |  | **PE** | **100 mcg** | **17 mm**  | **21 mm (22)P** |
| **PIPERAC/TAZOBACTAM** |  | **TZ** | **100/10 mcg** | **20 mm (20)H (14)P (17)Ac,P** | **25 mm P (18)\* (21) Ac,H (22) P** |
| **POLIMIXINA B** |  | **PB** | **300 U** | **11 mm** | **12 mm** |
| **RIFAMPICINA** |  | **R** | **5 mcg** | **16 mm (19)Nm** | **20 mm (19)$ (25)Nm** |
| **ROXITROMICINA** |  | **RXT** | **15 mcg** | **13 mm** | **23 mm** |
| **SULFATRIMETOPRIM** |  | **SXT** | **25 mcg** | **10 mm (15)$ (25)Nm** | **16 mm (19)$ (30)Nm** |
| **SULFONAMIDA** |  | **SF** | **250 mcg** | **12 mm orina** | **17 mm orina** |
| **TEICOPLANINA** |  | **TEI** | **30 mcg** | **10 mm** | **14 mm** |
| **TETRACICLINA** |  | **Te** | **30 mcg** | **11 mm (24)$ (30)N (25)H (14)\*orina,E,V (18)Sv,Sb** | **15 mm (28)$ (38)N (29)H (19)\*orina,E,V (23)Sv,Sb** |
| **TOBRAMICINA** |  | **TB** | **10 mcg** | **12 mm** | **17 mm (19) P** |
| **TRIMETOPRIM** |  | **TMP** | **5 mcg** | **10 mm orina O** | **16 mm orina O** |
| **VANCOMICINA**  |  | **VA** | **30 mcg** | **16 mm $ (14)E** | **17 mm $,E,Sb,Sv** |
| **GENTAMICINA HLAR** |  | **G** | **120 mcg** |  **6 mm** | **10 mm** |
| **ESTREPTOMICINA HLAR** |  | **ST** | **300 mcg** |  **6 mm** | **10 mm** |
| **\* Staphylococcus spp. \*\* Staphy.coagulasa-negativa****A Staphylococcus aureus Se S.epidermidis** **OSsp Otros Staphlyl. spp P Ps. Aeruginosa** **L S. lugdunensis Ac Acinetobacter spp.****Sm S. maltophilia Eb Enterobacterales****Sp S. pseudintermedius Ssc S. schleiferi O orina** | **E Enterococcus spp. H Haemophilus spp.****Sv Strept.viridans Sb Strept. Beta hemoliticus**  **$ Streptococcus pneumoniae St Salmonella typhi,extra intestinal spp** **B B. cepacia N N. gonorrhoeae** **Nm N. .meningitidis V Vibrio cholera****BLEc BLEE Ecoli BLPm BLEE Pmirabilis** |
| **NOTAS: Para Burkholderia cepacia sòlo se informa CAZ y MRP** **Para Stenotrophomonas maltophilia sólo se informa LVX y SX** **Cloramfenicol** no se informa en cepas del tracto urinario**.** | **En Salmonella spp. y Shigella spp. Las Cefalosporinas de primera y segunda generación pueden ser activas *in vitro,* no son efectivas clínicamente, por lo que no deben informarse como Susceptible.** |
| **NOTAS: Klebsiella spp. y E. coli que producen beta-lactamasa de expectro expandido (BLEE), pueden ser clínicamente R a Penicilinas,Cefalosporinas o Aztreonam a pesar de ser S *in vitro.*** | **En cepas de LCR debe informarse CTX y CTR** **CFM no es aplicable a Morganella spp.****CPR no es aplicable a Providencia spp. por dar S falsa.** |
| **NOTA: Cepas de Staphylococcus aureus Resistente a los macrólidos y cepas de Staphylococcus spp. coagulasa negativas, pueden tener resistencia constitutiva o inducible a la Clindamicina ; o pueden ser resistentes sólo a los macrólidos.****La resistencia inducida a la Clindamicina se puede detectar usando el Test de Aproximación de Discos, poniendo el disco de Clindamicina 2 mcg entre 15 a 26 mm del disco de Eritromicina 15 mcg.** | **Después de la incubación, los microorganismos que no muestran “aplanamiento “ del halo de la Clindamicina deberían reportarse como “Clindamicina Susceptible” , por otra parte, aquellos que presentan “aplanamiento” del halo de la Clindamicina adjacente al disco de Eritromicina (REFERIDA COMO ZONA “D”) indica Resistencia Inducible a la Clindamicina. Estas cepas deben informarse como “CLINDAMICINA RESISTENTE”.** |
| **PRINCIPALES NOVEDADES :****GENTAMICINA 10 mcg: SUBE 14- 18 mm halos****TOBRAMICINA 10 mcg SUBE 17 mm halo susceptible Y a 19 mm para Ps.aeruginosa.****AMIKACINA 30 mcg: SUBE 16-20 mm halos** **AZITROMICINA 15 mcg HALOS PARA Shigella Enterobacterales****PIPERACILINA Y PIPER-TAZOBACTAM CAMBIAN HALOS.** | **CLARITROMICINA: se incorpora para Streptococcus spp Beta hemolítico(Sb).****CLINDAMICINA: se incorpora para Streptococcus spp Beta hemolítico(Sb).****ERITROMICINA: se incorpora para Streptococcus spp Beta hemolítico(Sb).****SDD: Susceptible dependiente de la Dosis(dosis mayores a las normales)****CEFAZOLINA: resultados puede predecir respuestas para CEFACLOR, CEFDINIR, CEFPODOXIMA, CEFPROZIL, CEFUROXIMA Y CEFALEXINA Y LORACARBEF cuando se usa en terapias de Infecciones urinarias no complicada** |