**Appendix 1**

**Figure 1- Search strategy to identify studies on antibiotic resistance clinical research in Iran**

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| **Scopus**  #1 ( TITLE-ABS-KEY ( bacteriocid\* )  OR  TITLE-ABS-KEY ( antimycobacterial )  OR  TITLE-ABS-KEY ( anti mycobacterial )  OR  TITLE-ABS-KEY ( antibacterial ) ) OR  TITLE-ABS-KEY ( anti bacterial ) OR  TITLE-ABS-KEY ( antibiotic\* ) OR  TITLE-ABS-KEY ( anti infect\* ) OR  TITLE-ABS-KEY ( antiinfect\* ) OR  TITLE-ABS-KEY ( antimicrobial ) OR  TITLE-ABS-KEY ( anti microbial )  #2 ( TITLE-ABS-KEY ( **iran** )  OR  TITLE-ABS-KEY ( **alborz** )  OR  TITLE-ABS-KEY ( **karaj** ) OR  TITLE-ABS-KEY ( **Ardabil** ) OR  TITLE-ABS-KEY ( Ardebil ) OR  TITLE-ABS-KEY ( Azerbaijan ) OR  TITLE-ABS-KEY ( Azarbaijan ) OR  TITLE-ABS-KEY ( Tabriz ) OR  TITLE-ABS-KEY ( Urmia ) OR  TITLE-ABS-KEY ( Urmya ) OR  TITLE-ABS-KEY ( Bushehr ) OR  TITLE-ABS-KEY ( Chahar Mahaal ) OR  TITLE-ABS-KEY ( Chaharmahal ) OR  TITLE-ABS-KEY ( Charmahal ) OR  TITLE-ABS-KEY ( Shahrekord ) OR  TITLE-ABS-KEY ( Fars ) OR  TITLE-ABS-KEY ( Shiraz ) OR  TITLE-ABS-KEY ( Gilan ) OR  TITLE-ABS-KEY ( Guilan ) OR  TITLE-ABS-KEY ( Rasht ) OR  TITLE-ABS-KEY ( Golestan ) OR  TITLE-ABS-KEY ( Gorgan ) OR  TITLE-ABS-KEY ( Hamadan ) OR  TITLE-ABS-KEY ( Hamedan ) OR  TITLE-ABS-KEY ( Hormozgan ) OR  TITLE-ABS-KEY ( "Bandar Abbas" ) OR  TITLE-ABS-KEY ( Bandar-e-Abbas ) OR  TITLE-ABS-KEY ( Ilam ) OR  TITLE-ABS-KEY ( Isfahan ) OR  TITLE-ABS-KEY ( Esfahan ) OR  TITLE-ABS-KEY ( Kerman ) OR  TITLE-ABS-KEY ( Kermanshah ) OR  TITLE-ABS-KEY ( Khorasan ) OR  TITLE-ABS-KEY ( Bojnourd ) OR  TITLE-ABS-KEY ( Mashhad ) OR  TITLE-ABS-KEY ( Birjand ) OR  TITLE-ABS-KEY ( Khuzestan ) OR  TITLE-ABS-KEY ( Ahvaz ) OR  TITLE-ABS-KEY ( Ahwaz ) OR  TITLE-ABS-KEY ( Kohgiluyeh ) OR  TITLE-ABS-KEY ( Yasuj ) OR  TITLE-ABS-KEY ( Kurdistan ) OR  TITLE-ABS-KEY ( Kordestan ) OR  TITLE-ABS-KEY ( Sanandaj ) OR  TITLE-ABS-KEY ( Lorestan ) OR  TITLE-ABS-KEY ( Khorramabad ) OR  TITLE-ABS-KEY ( Khoramabad ) OR  TITLE-ABS-KEY ( Markazi ) OR  TITLE-ABS-KEY ( Arak ) OR  TITLE-ABS-KEY ( Mazandaran ) OR  TITLE-ABS-KEY ( Sari ) OR  TITLE-ABS-KEY ( Qazvin ) OR  TITLE-ABS-KEY ( Qom ) OR  TITLE-ABS-KEY ( Semnan ) OR  TITLE-ABS-KEY ( Sistan ) OR  TITLE-ABS-KEY ( Zahedan ) OR  TITLE-ABS-KEY ( Tehran ) OR  TITLE-ABS-KEY ( Teheran ) OR  TITLE-ABS-KEY ( Yazd ) OR  TITLE-ABS-KEY ( Zanjan ) )  #3 #1 AND #2  **IDML**  Antibiotic (TITLE-ABS-KEY) OR آنتی بیوتیک (TITLE-ABS-KEY)  **ISI web of Science**  #1 **ADDRESS:** (Iran)  Indexes=SCI-EXPANDED, SSCI, ESCI Timespan=All years  #2 **TOPIC:** (bacteriocid\* or antimycobacterial or anti mycobacterial or antibacterial or anti bacterial or antibiotic\* or anti infect\* or antiinfect\* or antimicrobial or anti microbial)  Indexes=SCI-EXPANDED, SSCI, ESCI Timespan=All years  #3 #2 AND #1  Indexes=SCI-EXPANDED, SSCI, ESCI Timespan=All years  **Embase**  #1 **'antibiotic agent'**/exp OR **'antibiotic agent'**  **#2 'iran'**:ca  #3 **#1** AND **#2**  **MEDLINE/PubMed**  Iran[Affiliation]) AND (((((((bacteriocid\* or antimycobacterial or anti mycobacterial or antibacterial or anti bacterial or antibiotic\* or anti infect\* or antiinfect\* or antimicrobial or anti microbial))) OR "Macrolides"[Mesh]) OR "beta-Lactams"[Mesh]) OR "Anti-Bacterial Agents" [Pharmacological Action]) OR "Anti-Bacterial Agents"[Mesh] |

**Table 1- Included studies based on bacteria**

|  |  |
| --- | --- |
| **Bacteria** | **Citations\*** |
| *Acinetobacter baumannii* | 2, 9, 12, 18, 31, 47, 59, 66, 70, 73, 74, 95, 104, 106, 112, 135, 141, 144, 146, 157, 167, 176, 177, 178, 184, 188, 191, 192, 193, 194, 225, 229, 230, 231, 238, 239, 242, 243, 245, 246, 248, 249, 250, 266, 271, 273, 278, 281, 299, 314, 319, 325, 328, 333, 347, 367, 368, 372, 382, 402, 406, 410, 413, 414, 416, 434, 436, 462, 471, 477, 499, 500, 501, 520, 523, 540, 543, 566, 587, 590, 603, 605, 613, 624, 631, 646, 664, 667, 675, 693, 704, 706, 709, 710, 712, 721, 739, 743, 744, 766, 767, 768, 797, 799, 838, 849, 850, 851, 859, 873, 893, 898, 907, 922, 932, 968, 978, 980, 981, 988, 997, 999, 1005, 1037, 1047, 1071, 1075, 1095, 1103, 1123, 1133, 1135, 1139, 1144, 1155, 1157, 1159, 1160, 1170, 1174, 1175, 1191, 1195, 1203, 1213, 1232, 1233, 1253, 1302, 1320, 1330, 1361, 1366, 1380, 1384, 1385, 1416, 1428, 1429, 1436, 1457, 1502, 1503, 1504, 1505, 1512, 1528, 1531, 1546, 1550, 1555, 1575, 1576, 1578, 1588, 1597, 1602, 1624, 1630, 1632, 1633, 1635, 1636, 1649, 1654, 1668, 1682, 1684, 1699, 1707 |
| *Acinetobacter* spp. | 11, 14, 17, 56, 63, 67, 85, 86, 109, 131, 139, 140, 167, 212, 222, 266, 280, 296, 320, 346, 352, 442, 454, 458, 471, 488, 513, 558, 560, 561, 598, 615, 636, 640, 658, 672, 685, 686, 693, 694, 698, 699, 700, 704, 720, 764, 795, 796, 799, 815, 816, 818, 825, 830, 857, 882, 935, 1001, 1003, 1008, 1023, 1045, 1051, 1055, 1097, 1154, 1163, 1165, 1169, 1183, 1185, 1188, 1189, 1190, 1199, 1216, 1220, 1255, 1302, 1311, 1328, 1333, 1343, 1344, 1357, 1361, 1406, 1426, 1468, 1483, 1498, 1501, 1554, 1556, 1572, 1630, 1633, 1653, 1695 |
| *Aerobacter* spp. | 442 |
| *Aeromonas* spp. | 1537 |
| *Alcaligenes* spp. | 18, 266, 384, 513, 807, 1426 |
| *Alpha-hemolytic Streptococcus* | 131, 410, 424, 685, 1180, 1525 |
| *Bacillus cereus* | 1092 |
| *Bacillus* spp. | 167, 675, 682, 699, 793, 1621, 1621 |
| *Bacteroides fragilis* | 86, 87, 1344 |
| *Bacteroides* spp. | 442 |
| *Beta-hemolytic Streptococcus* | 424, 486, 507, 1012, 1180, 1433, 1525 |
| *Bordetella pertussis* | 946, 1462 |
| *Branhamella* spp. | 410, 424 |
| *Brucella* spp. | 17, 420, 608, 661, 694, 698, 699, 882, 1318, 1622 |
| *Burkholderia* spp. | 675 |
| *Campylobacter* spp. | 108, 260, 468, 595, 694, 737, 829, 976, 1315, 1404 |
| *Capnocytophaga* spp. | 56 |
| *Cedecea* spp. | 699 |
| *Citrobacter* spp. | 18, 43, 67, 72, 85, 90, 99, 100, 109, 122, 131, 155, 267, 278, 280, 359, 385, 424, 428, 440, 442, 606, 609, 611, 640, 660, 675, 699, 741, 754, 764, 769, 795, 807, 810, 818, 857, 871, 888, 910, 941, 973, 1001, 1027, 1028, 1041, 1055, 1060, 1086, 1097, 1163, 1189, 1190, 1216, 1230, 1252, 1267, 1269, 1270, 1294, 1324, 1340, 1341, 1344, 1356, 1365, 1406, 1458, 1531, 1556, 1661, 1662, 1668, 1676 |
| *Clostridium difficile* | 92, 548, 842, 1621 |
| *Clostridium perfringens* | 79, 86 |
| *Clostridium* spp. | 442 |
| *Coagulase-negative staphylococci* | 11, 14, 17, 18, 38, 48, 56, 85, 86, 109, 113, 116, 117, 129, 130, 131, 140, 155, 158, 167, 168, 228, 253, 274, 278, 280, 290, 294, 311, 320, 352, 356, 357, 362, 369, 370, 384, 385, 390, 392, 397, 398, 403, 410, 412, 428, 484, 488, 513, 538, 560, 561, 566, 569, 576, 579, 592, 598, 609, 611, 619, 636, 640, 658, 663, 675, 685, 698, 699, 700, 716, 728, 729, 730, 737, 760, 763, 769, 776, 793, 811, 813, 815, 821, 825, 830, 831, 832, 834, 857, 871, 878, 882, 911, 915, 916, 949, 959, 960, 977, 1003, 1005, 1014, 1042, 1051, 1055, 1056, 1057, 1058, 1060, 1061, 1064, 1079, 1080, 1081, 1089, 1095, 1145, 1150, 1154, 1165, 1180, 1181, 1188, 1196, 1204, 1205, 1207, 1216, 1230, 1234, 1241, 1252, 1260, 1261, 1276, 1294, 1317, 1328, 1332, 1333, 1340, 1341, 1343, 1344, 1352, 1365, 1390, 1468, 1486, 1487, 1492, 1495, 1500, 1525, 1547, 1552, 1554, 1555, 1556, 1597, 1601, 1621, 1633, 1654, 1668, 1676, 1679, 1680, 1691, 1695, 1698 |
| *Corynebacterium* spp. | 167, 384, 410, 793, 1042 |
| *Edwardsiella* spp. | 428, 609, 699 |
| *Enterobacter* spp. | 1, 14, 17, 18, 35, 37, 38, 45, 55, 62, 67, 72, 85, 90, 109, 117, 122, 129, 130, 131, 137, 158, 167, 228, 266, 267, 280, 320, 352, 384, 385, 392, 412, 417, 424, 488, 513, 524, 526, 560, 566, 569, 576, 579, 598, 609, 610, 611, 625, 640, 672, 675, 685, 694, 698, 699, 700, 720, 721, 729, 730, 737, 741, 754, 760, 761, 764, 769, 795, 796, 807, 810, 815, 816, 821, 825, 830, 857, 859, 871, 876, 882, 888, 910, 912, 935, 941, 959, 960, 973, 989, 994, 1001, 1003, 1008, 1014, 1028, 1038, 1041, 1042, 1051, 1055, 1056, 1060, 1070, 1086, 1097, 1102, 1119, 1145, 1154, 1172, 1173, 1176, 1178, 1183, 1188, 1189, 1199, 1207, 1216, 1228, 1230, 1255, 1260, 1261, 1267, 1269, 1270, 1275, 1328, 1329, 1332, 1333, 1340, 1341, 1343, 1356, 1357, 1360, 1365, 1380, 1389, 1406, 1412, 1413, 1415, 1458, 1468, 1501, 1527, 1531, 1546, 1554, 1556, 1596, 1621, 1659, 1661, 1662, 1668, 1669, 1676, 1695 |
| *Enterococcus faecalis* | 4, 82, 94, 110, 113, 136, 166, 169, 172, 173, 174, 183, 186, 261, 262, 276, 307, 373, 378, 447, 466, 472, 492, 512, 584, 602, 620, 626, 645, 651, 669, 676, 695, 757, 772, 804, 811, 894, 904, 905, 933, 954, 996, 1022, 1038, 1069, 1091, 1102, 1151, 1192, 1218, 1308, 1309, 1337, 1351, 1381, 1398, 1399, 1400, 1419, 1420, 1455, 1471, 1472, 1496, 1542, 1594, 1634, 1654, 1656, 1668 |
| *Enterococcus faecium* | 4, 82, 94, 110, 113, 136, 166, 169, 172, 173, 174, 186, 187, 261, 276, 307, 373, 378, 447, 472, 475, 476, 512, 584, 602, 620, 626, 645, 669, 674, 676, 695, 757, 772, 804, 894, 904, 905, 933, 996, 1091, 1151, 1210, 1218, 1337, 1397, 1398, 1400, 1419, 1420, 1455, 1471, 1472, 1496, 1506, 1507, 1542, 1555, 1592, 1593, 1595, 1634, 1656 |
| *Enterococcus* spp. | 11, 14, 17, 18, 32, 55, 56, 67, 82, 85, 86, 109, 122, 130, 137, 140, 158, 166, 167, 173, 174, 201, 209, 266, 278, 307, 310, 320, 352, 385, 403, 412, 428, 442, 447, 488, 512, 524, 560, 561, 566, 568, 576, 579, 598, 610, 617, 618, 620, 624, 626, 644, 645, 657, 658, 669, 675, 694, 695, 698, 699, 700, 714, 715, 723, 757, 763, 769, 772, 793, 813, 821, 825, 882, 894, 903, 905, 1003, 1014, 1051, 1055, 1060, 1069, 1091, 1097, 1106, 1107, 1108, 1114, 1154, 1180, 1189, 1190, 1196, 1207, 1209, 1216, 1294, 1328, 1344, 1365, 1370, 1421, 1422, 1455, 1468, 1472, 1495, 1496, 1501, 1525, 1547, 1554, 1556, 1618, 1634, 1637, 1656, 1676, 1695 |
| *Escherichia coli* | 1, 3, 8, 11, 14, 18, 23, 30, 35, 38, 45, 51, 53, 54, 62, 64, 67, 72, 75, 84, 85, 91, 93, 96, 98, 101, 108, 109, 111, 116, 118, 121, 122, 124, 125, 126, 128, 130, 131, 137, 140, 143, 144, 155, 161, 162, 167, 171, 175, 199, 203, 207, 208, 215, 216, 221, 228, 236, 264, 266, 267, 277, 278, 279, 280, 283, 302, 303, 305, 308, 312, 320, 321, 322, 325, 331, 332, 334, 338, 339, 342, 344, 352, 359, 381, 385, 386, 387, 389, 391, 392, 396, 397, 401, 403, 405, 410, 411, 412, 424, 428, 429, 432, 433, 442, 464, 478, 479, 482, 488, 489, 497, 508, 513, 522, 524, 526, 528, 537, 539, 553, 554, 558, 559, 560, 561, 562, 564, 566, 568, 573, 574, 576, 583, 588, 598, 599, 600, 601, 606, 609, 610, 611, 615, 624, 629, 630, 633, 635, 636, 638, 640, 642, 651, 653, 658, 660, 662, 670, 672, 675, 679, 680, 681, 684, 685, 686, 694, 696, 698, 699, 700, 711, 718, 720, 721, 725, 726, 727, 730, 736, 740, 741, 742, 754, 756, 758, 759, 760, 761, 764, 769, 778, 780, 781, 782, 791, 795, 796, 802, 810, 811, 813, 815, 816, 818, 821, 846, 857, 859, 871, 879, 883, 886, 890, 929, 943, 945, 952, 964, 965, 973, 974, 993, 1001, 1002, 1003, 1010, 1013, 1014, 1026, 1027, 1057, 1084, 1097, 1116, 1134, 1141, 1186, 1190, 1216, 1217, 1251, 1255, 1278, 1329, 1331, 1341, 1343, 1348, 1389, 1403, 1422, 1490, 1501, 1529, 1531, 1532, 1534, 1535, 1538, 1541, 1556, 1574, 1597, 1624, 1633, 1640, 1646, 1648, 1663, 1664, 1675, 1678, 1683, 1686, 1696, 1706, 1718 |
| *Escherichia* spp. | 1543 |
| *Flavobacterium* spp. | 560, 1042 |
| *Fusobacterium* spp. | 694 |
| *Haemophilus influenza* | 11, 128, 300, 410, 419, 577, 578, 610, 638, 659, 694, 698, 699, 737, 954, 1015 |
| *Haemophilus* spp. | 424, 859, 882, 1199, 1328 |
| *Hafnia spp.* | 266, 424, 609, 694, 1252 |
| *Helicobacter pylori* | 19, 20, 21, 306, 345, 366, 388, 407, 408, 409, 430, 527, 529, 550, 575, 585, 746, 747, 749, 751, 752, 784, 785, 786, 787, 860, 867, 875, 908, 926, 947, 948, 972, 998, 1094, 1109, 1221, 1363, 1425, 1435, 1437, 1456, 1513, 1514, 1515, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1549, 1587, 1589, 1591, 1715 |
| *Klebsiella pneumoniae* | 11, 17, 42, 43, 44, 56, 65, 71, 72, 93, 97, 102, 109, 117, 143, 144, 154, 156, 167, 175, 196, 197, 204, 219, 220, 232, 263, 264, 266, 267, 277, 278, 279, 281, 283, 287, 293, 313, 324, 325, 329, 330, 334, 359, 360, 361, 363, 364, 394, 410, 428, 441, 442, 453, 457, 464, 465, 467, 469, 470, 473, 480, 488, 493, 494, 495, 496, 497, 504, 522, 545, 566, 568, 583, 594, 601, 607, 609, 614, 624, 629, 630, 632, 636, 638, 642, 651, 654, 660, 666, 675, 679, 680, 705, 724, 727, 729, 730, 740, 758, 788, 801, 802, 806, 807, 811, 814, 828, 844, 845, 854, 859, 866, 882, 888, 891, 892, 895, 910, 914, 931, 942, 954, 959, 960, 962, 971, 973, 989, 1001, 1005, 1009, 1013, 1027, 1028, 1029, 1038, 1041, 1070, 1073, 1077, 1078, 1086, 1092, 1093, 1102, 1120, 1121, 1132, 1164, 1169, 1177, 1180, 1186, 1201, 1207, 1219, 1230, 1232, 1260, 1261, 1263, 1266, 1267, 1269, 1270, 1296, 1297, 1305, 1329, 1332, 1338, 1344, 1347, 1360, 1380, 1417, 1432, 1446, 1452, 1473, 1480, 1481, 1488, 1489, 1497, 1501, 1510, 1512, 1531, 1533, 1546, 1553, 1559, 1573, 1580, 1588, 1597, 1599, 1611, 1638, 1647, 1648, 1654, 1655, 1661, 1662, 1663, 1668, 1676, 1692, 1695, 1709 |
| *Klebsiella* spp. | 14, 35, 38, 40, 45, 55, 62, 67, 80, 120, 122, 129, 131, 137, 140, 147, 155, 158, 190, 228, 267, 278, 280, 301, 320, 326, 352, 359, 397, 403, 412, 424, 494, 498, 513, 524, 526, 558, 560, 561, 569, 576, 579, 598, 610, 611, 613, 614, 615, 640, 648, 658, 672, 684, 685, 686, 687, 694, 698, 699, 700, 720, 721, 737, 741, 754, 761, 764, 769, 789, 795, 796, 810, 813, 815, 816, 818, 821, 825, 857, 871, 924, 935, 941, 952, 956, 1003, 1009, 1014, 1027, 1028, 1041, 1042, 1051, 1055, 1056, 1060, 1086, 1097, 1104, 1154, 1163, 1165, 1183, 1188, 1189, 1190, 1199, 1213, 1216, 1217, 1220, 1252, 1255, 1274, 1281, 1294, 1328, 1333, 1340, 1341, 1344, 1356, 1357, 1365, 1387, 1406, 1417, 1426, 1458, 1468, 1527, 1533, 1546, 1556, 1596, 1613, 1624, 1637, 1659, 1661, 1662, 1664, 1669, 1676, 1679, 1686, 1692, 1697 |
| *Legionella pneumophila* | 1238, 1463 |
| *Listeria monocytogenes* | 22, 694, 847, 848, 1359 |
| *Listeria* spp. | 1042 |
| *Micrococcus* spp. | 619, 699, 793, 1196, 1344, 1525 |
| *Moraxella catarrhalis* | 610, 659 |
| *Moraxella* spp. | 266, 560 |
| *Morganella* spp. | 167, 267, 699, 874, 1344, 1661, 1662 |
| *Mycobacterium tuberculosis* | 181, 182, 211, 237, 255, 256, 272, 337, 348, 393, 404, 421, 422, 474, 565, 641, 658, 745, 777, 826, 884, 885, 901, 902, 921, 936, 984, 985, 987, 1090, 1096, 1099, 1182, 1222, 1271, 1272, 1273, 1307, 1321, 1322, 1379, 1393, 1394, 1395, 1444, 1485, 1560, 1561, 1615, 1641, 1650, 1651, 1687, 1688, 1689, 1690, 1703 |
| *Mycoplasma* spp. | 233 |
| *Neisseria gonorrhoeae* | 33, 45, 234, 292, 1716 |
| *Neisseria meningitidis* | 11, 577, 638, 694, 882, 1328 |
| *Neisseria* spp. | 720 |
| *Nocardia* spp. | 612 |
| *Nonhemolytic streptococci* | 18, 86, 274, 636, 935, 1042, 1180, 1328, 1525 |
| *Nontuberculous mycobacteria* | 399, 427, 627, 628, 1098, 1214, 1222 |
| *Oligella* spp. | 694, 699 |
| *Peptostreptococcus* spp. | 699, 1344 |
| *Porphyromonas gingivalis* | 701 |
| *Propionibacterium acnes* | 619, 1698 |
| *Proteus* spp*.* | 14, 17, 45, 67, 72, 122, 130, 131, 137, 140, 144, 155, 158, 167, 190, 228, 266, 267, 278, 334, 359, 385, 392, 410, 412, 424, 428, 442, 488, 576, 609, 640, 658, 660, 675, 685, 694, 730, 740, 741, 761, 769, 795, 807, 810, 811, 813, 815, 818, 821, 825, 831, 857, 866, 871, 874, 888, 910, 952, 959, 960, 973, 1001, 1003, 1014, 1028, 1038, 1041, 1051, 1055, 1060, 1086, 1102, 1188, 1207, 1252, 1255, 1267, 1270, 1294, 1340, 1341, 1344, 1356, 1357, 1360, 1365, 1380, 1387, 1389, 1446, 1458, 1468, 1527, 1531, 1556, 1597, 1637, 1661, 1662, 1668, 1676 |
| *Providencia* spp. | 45, 1038, 1252, 1340 |
| *Pseudomonas aeruginosa* | 6, 10, 11, 12, 18, 24, 25, 28, 29, 43, 46, 49, 55, 56, 57, 61, 67, 69, 72, 77, 78, 85, 86, 88, 103, 105, 109, 117, 119, 123, 132, 144, 150, 152, 153, 158, 163, 164, 167, 170, 184, 188, 202, 214, 223, 224, 226, 240, 241, 246, 251, 252, 264, 266, 268, 269, 278, 281, 295, 309, 316, 317, 320, 325, 340, 341, 359, 368, 371, 382, 384, 385, 392, 400, 410, 412, 415, 416, 418, 426, 432, 435, 442, 448, 449, 450, 451, 452, 455, 456, 459, 460, 461, 463, 485, 488, 503, 506, 517, 521, 525, 530, 531, 532, 533, 541, 547, 558, 560, 566, 569, 572, 579, 586, 587, 589, 591, 598, 609, 610, 613, 624, 625, 634, 637, 639, 640, 652, 667, 675, 683, 691, 694, 698, 703, 721, 722, 724, 727, 729, 730, 732, 733, 734, 735, 764, 770, 779, 783, 789, 796, 798, 802, 807, 810, 811, 815, 816, 819, 820, 823, 824, 825, 830, 831, 833, 836, 843, 855, 859, 877, 882, 893, 900, 909, 918, 928, 937, 938, 939, 940, 941, 957, 958, 975, 992, 1001, 1004, 1005, 1007, 1016, 1021, 1024, 1038, 1039, 1060, 1063, 1065, 1070, 1076, 1095, 1097, 1100, 1122, 1130, 1136, 1142, 1156, 1161, 1169, 1171, 1179, 1198, 1199, 1200, 1202, 1208, 1213, 1215, 1216, 1220, 1223, 1224, 1225, 1230, 1232, 1254, 1256, 1258, 1259, 1262, 1265, 1267, 1268, 1269, 1270, 1277, 1299, 1306, 1313, 1314, 1323, 1328, 1341, 1342, 1344, 1353, 1355, 1362, 1364, 1367, 1368, 1371, 1372, 1377, 1378, 1380, 1383, 1391, 1392, 1405, 1406, 1408, 1409, 1410, 1411, 1430, 1446, 1447, 1459, 1460, 1466, 1467, 1482, 1484, 1501, 1511, 1512, 1516, 1531, 1546, 1554, 1555, 1556, 1562, 1588, 1597, 1598, 1599, 1602, 1603, 1607, 1608, 1609, 1610, 1614, 1619, 1620, 1623, 1624, 1625, 1626, 1627, 1631, 1639, 1643, 1644, 1645, 1654, 1668, 1669, 1670, 1672, 1673, 1674, 1676, 1679, 1695, 1704, 1705, 1717 |
| *Pseudomonas* spp. | 1, 14, 17, 23, 38, 45, 62, 122, 128, 131, 137, 140, 190, 280, 281, 352, 397, 424, 513, 561, 568, 576, 606, 636, 651, 658, 660, 672, 685, 686, 687, 699, 700, 720, 754, 760, 761, 769, 795, 813, 818, 857, 871, 924, 952, 1003, 1008, 1014, 1042, 1051, 1055, 1056, 1154, 1165, 1180, 1183, 1188, 1189, 1190, 1213, 1217, 1255, 1294, 1333, 1340, 1344, 1356, 1357, 1389, 1426, 1546, 1596, 1621, 1633, 1637 |
| *Salmonella enterica* | 16, 165, 259, 383, 423, 481, 596, 597, 677, 1062, 1066, 1264, 1291, 1298, 1544, 1584, 1585 |
| *Salmonella s*pp. | 11, 52, 56, 90, 108, 359, 383, 391, 425, 560, 571, 694, 698, 699, 741, 813, 859, 862, 882, 929, 976, 993, 1003, 1035, 1041, 1105, 1199, 1213, 1216, 1270, 1280, 1292, 1357, 1414, 1421, 1458, 1585, 1657, 1677, 1678, 1685, 1686 |
| *Salmonella typhi* | 17, 254, 391, 425, 442, 677, 807, 959, 960, 1066, 1280, 1585, 1677 |
| *Salmonella typhimurium* | 138, 149, 180, 425, 677, 1066, 1288, 1677 |
| *Serratia* spp. | 11, 17, 55, 72, 144, 158, 167, 266, 267, 280, 609, 694, 699, 807, 810, 811, 859, 910, 1001, 1014, 1041, 1046, 1097, 1154, 1183, 1188, 1269, 1343, 1360, 1546, 1624 |
| *Shigella dysenteriae* | 213, 354, 391, 440, 511, 519, 593, 649, 671, 719, 771, 792, 865, 881, 966, 1044, 1128, 1129, 1197, 1212, 1284, 1287, 1304, 1418, 1586, 1600 |
| *Shigella flexneri* | 213, 244, 354, 440, 511, 519, 593, 649, 650, 671, 719, 771, 790, 792, 862, 865, 881, 897, 934, 966, 1044, 1128, 1129, 1143, 1197, 1212, 1284, 1287, 1301, 1304, 1401, 1418, 1477, 1478, 1479, 1540, 1586, 1600 |
| *Shigella sonnei* | 36, 213, 258, 354, 391, 440, 511, 519, 593, 649, 650, 671, 719, 771, 792, 862, 865, 881, 897, 934, 966, 1040, 1044, 1128, 1129, 1197, 1212, 1284, 1286, 1287, 1289, 1300, 1301, 1304, 1401, 1418, 1477, 1478, 1479, 1539, 1586, 1600 |
| *Shigella* spp. | 80, 108, 148, 213, 354, 511, 519, 571, 593, 649, 650, 670, 671, 719, 741, 771, 862, 865, 881, 897, 929, 966, 976, 993, 1128, 1129, 1197, 1212, 1284, 1287, 1290, 1295, 1304, 1343, 1357, 1360, 1418, 1458, 1586, 1600, 1678, 1685, 1686 |
| *Staphylococcus aureus* | 5, 7, 11, 12, 13, 14, 15, 17, 18, 34, 50, 56, 58, 62, 67, 72, 76, 81, 83, 85, 86, 89, 107, 109, 113, 114, 115, 116, 117, 127, 128, 133, 134, 140, 142, 145, 151, 155, 158, 159, 160, 179, 184, 185, 195, 198, 206, 227, 228, 235, 247, 253, 266, 270, 274, 275, 278, 280, 284, 285, 289, 297, 304, 311, 315, 320, 335, 336, 343, 351, 352, 353, 355, 358, 365, 368, 369, 370, 374, 375, 376, 384, 385, 395, 410, 412, 417, 437, 438, 439, 442, 443, 444, 445, 446, 483, 487, 488, 490, 491, 505, 510, 513, 514, 515, 516, 533, 534, 535, 538, 542, 546, 549, 551, 552, 556, 557, 560, 561, 563, 566, 567, 568, 569, 576, 579, 580, 598, 604, 609, 610, 611, 616, 619, 621, 622, 623, 625, 636, 638, 640, 643, 647, 655, 657, 658, 665, 668, 672, 673, 675, 678, 683, 685, 688, 692, 694, 697, 698, 699, 700, 702, 707, 708, 717, 720, 728, 729, 730, 737, 738, 760, 763, 765, 769, 773, 774, 775, 789, 793, 794, 798, 800, 802, 808, 810, 812, 815, 816, 817, 821, 825, 830, 831, 834, 839, 841, 852, 853, 856, 857, 858, 861, 868, 871, 878, 880, 882, 889, 899, 909, 911, 912, 916, 917, 920, 930, 931, 935, 950, 951, 955, 969, 970, 977, 979, 982, 983, 990, 1000, 1005, 1011, 1014, 1018, 1025, 1030, 1032, 1033, 1034, 1036, 1038, 1043, 1048, 1049, 1050, 1051, 1053, 1055, 1061, 1072, 1081, 1092, 1095, 1097, 1102, 1110, 1117, 1118, 1122, 1124, 1125, 1126, 1137, 1138, 1140, 1145, 1146, 1147, 1148, 1149, 1163, 1166, 1167, 1180, 1183, 1184, 1194, 1196, 1199, 1206, 1216, 1220, 1227, 1229, 1230, 1235, 1239, 1240, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1276, 1293, 1294, 1310, 1313, 1316, 1317, 1319, 1325, 1326, 1327, 1328, 1332, 1333, 1336, 1339, 1340, 1341, 1343, 1344, 1345, 1346, 1350, 1354, 1357, 1358, 1365, 1369, 1373, 1374, 1375, 1376, 1380, 1382, 1386, 1388, 1396, 1406, 1407, 1422, 1426, 1427, 1434, 1439, 1445, 1448, 1449, 1450, 1468, 1469, 1470, 1475, 1476, 1491, 1493, 1495, 1499, 1501, 1508, 1509, 1525, 1526, 1547, 1548, 1551, 1554, 1555, 1556, 1567, 1569, 1570, 1577, 1579, 1581, 1582, 1597, 1606, 1612, 1621, 1624, 1628, 1629, 1633, 1642, 1652, 1654, 1658, 1664, 1665, 1666, 1667, 1668, 1669, 1679, 1680, 1691, 1693, 1695, 1698, 1700, 1701, 1702, 1708, 1712, 1713, 1714 |
| *Staphylococcus* spp. | 1, 45, 131, 137, 167, 228, 278, 288, 376, 380, 424, 682, 720, 821, 924, 941, 977, 989, 1027, 1042, 1052, 1060, 1189, 1207, 1216, 1217, 1220, 1389, 1605, 1659, 1681 |
| *Stenotrophomonas maltophilia* | 14, 17, 167, 566, 582, 764, 870, 893, 1054, 1131, 1269, 1546 |
| *Stenotrophomonas* spp. | 795, 1183, 1633 |
| *Streptococcus agalactiae* | 282, 298, 323, 377, 379, 417, 536, 657, 689, 690, 694, 737, 803, 811, 822, 869, 954, 1059, 1101, 1113, 1196, 1231, 1402, 1468, 1617 |
| *Streptococcus pneumoniae* | 11, 17, 18, 56, 68, 113, 189, 210, 218, 266, 291, 350, 384, 410, 424, 509, 513, 555, 560, 566, 570, 577, 598, 609, 610, 638, 656, 657, 658, 659, 694, 698, 699, 728, 729, 737, 748, 750, 753, 755, 760, 802, 835, 882, 935, 954, 989, 1057, 1067, 1068, 1089, 1152, 1153, 1196, 1199, 1226, 1230, 1328, 1357, 1424, 1536, 1547 |
| *Streptococcus pyogenes* | 167, 205, 385, 417, 658, 713, 827, 882, 1332, 1357, 1556 |
| *Streptococcus* spp. | 56, 72, 122, 128, 274, 352, 442, 502, 513, 560, 598, 675, 694, 699, 769, 793, 825, 830, 935, 1014, 1051, 1055, 1056, 1060, 1089, 1097, 1163, 1188, 1189, 1190, 1217, 1328, 1343, 1344, 1438, 1555, 1556, 1597 |
| *Streptococcus viridans* | 11, 56, 266, 417, 560, 694, 698, 699, 720, 882, 1196, 1468, 1547 |
| *Vibrio cholerae* | 26, 27, 39, 41, 257, 258, 265, 581, 805, 896, 906, 1236, 1237, 1257, 1282, 1303, 1334, 1440, 1565, 1566 |
| *Yersinia* spp. | 1543 |

\* We included 1817 studies in this scoping review and citations are listed in the following pages

**Included Studies (in alphabetic order)**

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