

S1 Table. Antibiotic Guardian rate by CCG per 100,000 population with 95% confidence intervals

| CCG Code | CCG | Rates per 100,000 | LowerCI | UpperCI |
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| 06H | NHS Castle Point and Rochford CCG | 9 | 5 | 15 |
| 00J | NHS Nottingham North and East CCG | 16 | 10 | 24 |
| 06V | NHS North Norfolk CCG | 16 | 11 | 23 |
| 04R | NHS Thurrock CCG | 23 | 16 | 31 |
| 02A | NHS West Norfolk CCG | 23 | 17 | 32 |
| 05J | NHS South Lincolnshire CCG | 23 | 16 | 32 |
| 09F | NHS Great Yarmouth and Waveney CCG | 25 | 19 | 32 |
| 12F | NHS Fylde and Wyre CCG | 26 | 19 | 34 |
| 01F | NHS Havering CCG | 27 | 21 | 34 |
| 06L | NHS Lincolnshire East CCG | 28 | 22 | 36 |
| 05R | NHS Swale CCG | 29 | 20 | 41 |
| 04F | NHS North Lincolnshire CCG | 30 | 22 | 39 |
| 99F | NHS Corby CCG | 30 | 19 | 46 |
| 04N | NHS South Tyneside CCG | 31 | 23 | 41 |
| 14L | NHS North East Essex CCG | 31 | 25 | 38 |
| 10Q | NHS South East Staffordshire and Seisdon Peninsula CCG | 31 | 25 | 40 |
| 05D | NHS Fareham and Gosport CCG | 32 | 24 | 41 |
| 09W | NHS North East Lincolnshire CCG | 32 | 24 | 42 |
| 02P | NHS Barnsley CCG | 33 | 26 | 41 |
| 02G | NHS South Norfolk CCG | 33 | 26 | 41 |
| 06D | NHS Morecambe Bay CCG | 34 | 28 | 41 |
| 99E | NHS Basildon and Brentwood CCG | 34 | 27 | 42 |
| 10R | NHS South Eastern Hampshire CCG | 35 | 27 | 44 |
| 02Y | NHS Erewash CCG | 35 | 24 | 49 |
| 15A | NHS Bexley CCG | 36 | 29 | 44 |
| 09A | NHS Coventry and Rugby CCG | 36 | 31 | 42 |
| 08N | NHS South Kent Coast CCG | 37 | 29 | 46 |
| 04E | NHS North East Hampshire and Farnham CCG | 37 | 30 | 47 |
| 10X | NHS Telford and Wrekin CCG | 38 | 29 | 48 |
| 08T | NHS Warwickshire North CCG | 39 | 31 | 49 |
| 08R | NHS North Hampshire CCG | 39 | 31 | 48 |
| 05W | NHS Walsall CCG | 39 | 32 | 47 |
| 05A | NHS Doncaster CCG | 40 | 33 | 48 |
| 09N | NHS Hastings and Rother CCG | 40 | 31 | 50 |
| 03W | NHS Enfield CCG | 40 | 33 | 47 |
| 02Q | NHS Bassetlaw CCG | 40 | 30 | 54 |
| 00C | NHS Durham Dales, Easington and Sedgfield CCG | 41 | 34 | 49 |
| 05N | NHS Southend CCG | 42 | 33 | 52 |
| 06M | NHS Haringey CCG | 42 | 35 | 51 |
| 01T | NHS Surrey Downs CCG | 44 | 36 | 52 |
| 15F | NHS Mid Essex CCG | 45 | 38 | 52 |
| 06F | NHS Bedfordshire CCG | 45 | 39 | 52 |
| 03M | NHS South Worcestershire CCG | 45 | 38 | 53 |
| 02N | NHS Airedale, Wharfedale and Craven CCG | 45 | 35 | 57 |
| 08X | NHS Wyre Forest CCG | 46 | 33 | 61 |

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| 05L | NHS South West Lincolnshire CCG | 46 | 35 | 59 |
| 00L | NHS Scarborough and Ryedale CCG | 46 | 35 | 61 |
| 03Q | NHS West Suffolk CCG | 46 | 38 | 56 |
| 00X | NHS Crawley CCG | 47 | 35 | 61 |
| 12D | NHS West Essex CCG | 47 | 39 | 55 |
| 02T | NHS Canterbury and Coastal CCG | 47 | 38 | 57 |
| 15D | NHS Eastbourne, Hailsham and Seaford CCG | 47 | 38 | 58 |
| 05X | NHS West Kent CCG | 47 | 41 | 54 |
| 10K | NHS Hambleton, Richmondshire and Whitby CCG | 48 | 37 | 60 |
| 07T | NHS Croydon CCG | 48 | 41 | 56 |
| 07G | NHS West Leicestershire CCG | 48 | 42 | 55 |
| 09H | NHS Dorset CCG | 49 | 44 | 54 |
| 02H | NHS East Berkshire CCG | 49 | 43 | 56 |
| 03X | NHS Halton CCG | 49 | 38 | 63 |
| 08A | NHS Hartlepool and Stockton-on-Tees CCG | 50 | 42 | 59 |
| 04D | NHS Newham CCG | 50 | 43 | 58 |
| 00P | NHS Waltham Forest CCG | 51 | 43 | 60 |
| 01G | NHS South Warwickshire CCG | 51 | 43 | 60 |
| 08E | NHS Horsham and Mid Sussex CCG | 51 | 43 | 61 |
| 10E | NHS West Lancashire CCG | 52 | 39 | 67 |
| 03T | NHS Newark and Sherwood CCG | 52 | 40 | 67 |
| 10J | NHS Portsmouth CCG | 52 | 43 | 63 |
| 08D | NHS High Weald Lewes Havens CCG | 52 | 42 | 64 |
| 08K | NHS Merton CCG | 53 | 43 | 64 |
| 01J | NHS Medway CCG | 53 | 45 | 62 |
| 00T | NHS Bradford Districts CCG | 53 | 46 | 61 |
| 05F | NHS Isle of Wight CCG | 53 | 42 | 67 |
| 03Y | NHS Heywood, Middleton and Rochdale CCG | 54 | 45 | 65 |
| 07P | NHS Bromley CCG | 54 | 46 | 63 |
| 09P | NHS Hull CCG | 54 | 46 | 64 |
| 06T | NHS Nottingham West CCG | 54 | 41 | 70 |
| 08L | NHS Nene CCG | 55 | 49 | 60 |
| 10L | NHS Lincolnshire West CCG | 55 | 46 | 65 |
| 09C | NHS Ashford CCG | 55 | 43 | 69 |
| 07K | NHS Buckinghamshire CCG | 55 | 49 | 62 |
| 01R | NHS Southport and Formby CCG | 55 | 43 | 71 |
| 09E | NHS City and Hackney CCG | 55 | 47 | 65 |
| 05T | NHS Tameside and Glossop CCG | 56 | 47 | 65 |
| 06Y | NHS Sunderland CCG | 56 | 47 | 65 |
| 03E | NHS Hillingdon CCG | 56 | 47 | 65 |
| 06P | NHS North Durham CCG | 56 | 47 | 66 |
| 00K | NHS Hounslow CCG | 56 | 48 | 66 |
| 00Q | NHS Bolton CCG | 56 | 48 | 66 |
| 09L | NHS Gloucestershire CCG | 57 | 51 | 63 |
| 13T | NHS North West Surrey CCG | 57 | 49 | 65 |
| 03J | NHS Redbridge CCG | 57 | 49 | 66 |
| 09J | NHS Ealing CCG | 58 | 50 | 67 |
| 99C | NHS North Tyneside CCG | 58 | 48 | 70 |
| 00D | NHS East Riding of Yorkshire CCG | 58 | 50 | 67 |
| 08F | NHS Ipswich and East Suffolk CCG | 59 | 51 | 66 |

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| 03V | NHS Dartford, Gravesham and Swanley CCG | 59 | 50 | 69 |
| 02D | NHS Wigan Borough CCG | 59 | 51 | 68 |
| 08C | NHS Herts Valleys CCG | 59 | 53 | 66 |
| 11X | NHS Southern Derbyshire CCG | 61 | 54 | 68 |
| 05G | NHS Rotherham CCG | 61 | 52 | 71 |
| 06W | NHS Sheffield CCG | 61 | 55 | 68 |
| 07L | NHS Barking and Dagenham CCG | 62 | 52 | 73 |
| 10A | NHS Stockport CCG | 62 | 53 | 72 |
| 08G | NHS Knowsley CCG | 64 | 52 | 78 |
| 03F | NHS Lewisham CCG | 65 | 56 | 74 |
| 00Y | NHS South Devon and Torbay CCG | 65 | 56 | 75 |
| 01Y | NHS West Hampshire CCG | 65 | 59 | 72 |
| 09X | NHS Lambeth CCG | 66 | 57 | 75 |
| 04Q | NHS Swindon CCG | 66 | 56 | 77 |
| 07N | NHS Blackburn with Darwen CCG | 66 | 53 | 80 |
| 00L | NHS Northumberland CCG | 67 | 58 | 76 |
| 07Q | NHS Cambridgeshire and Peterborough CCG | 67 | 62 | 73 |
| 15E | NHS Blackpool CCG | 68 | 55 | 83 |
| 04L | NHS Somerset CCG | 68 | 62 | 75 |
| 05H | NHS Coastal West Sussex CCG | 68 | 61 | 76 |
| 99A | NHS North Derbyshire CCG | 69 | 59 | 79 |
| 06K | NHS East Surrey CCG | 69 | 57 | 82 |
| 07X | NHS Greenwich CCG | 69 | 60 | 79 |
| 02E | NHS Newcastle Gateshead CCG | 69 | 62 | 77 |
| 08P | NHS South Sefton CCG | 70 | 58 | 84 |
| 09Y | NHS Salford CCG | 70 | 60 | 82 |
| 03L | NHS South Tees CCG | 72 | 62 | 83 |
| 07H | NHS North Cumbria CCG | 72 | 63 | 82 |
| 01X | NHS Vale of York CCG | 72 | 64 | 82 |
| 05C | NHS East Leicestershire and Rutland CCG | 75 | 66 | 85 |
| 00R | NHS Bradford City CCG | 75 | 58 | 96 |
| 05V | NHS Vale Royal CCG | 76 | 61 | 95 |
| 11M | NHS Hardwick CCG | 76 | 61 | 94 |
| 03D | NHS Herefordshire CCG | 77 | 65 | 90 |
| 99C | NHS Rushcliffe CCG | 78 | 62 | 95 |
| 11J | NHS East Lancashire CCG | 80 | 71 | 90 |
| 99J | NHS Norwich CCG | 81 | 69 | 94 |
| 04K | NHS Shropshire CCG | 81 | 72 | 92 |
| 02W | NHS Brent CCG | 84 | 74 | 94 |
| 08M | NHS Northern, Eastern and Western Devon CCG | 84 | 78 | 90 |
| 99M | NHS Oldham CCG | 84 | 73 | 96 |
| 07J | NHS Bristol, North Somerset and South Gloucestershire CCG | 84 | 79 | 90 |
| 05L | NHS Sandwell and West Birmingham CCG | 85 | 77 | 93 |
| 00M | NHS Surrey Heath CCG | 86 | 68 | 106 |
| 01X | NHS St Helens CCG | 87 | 74 | 102 |
| 09D | NHS Bury CCG | 89 | 76 | 103 |
| 10V | NHS Stafford and Surrounds CCG | 90 | 76 | 106 |
| 10C | NHS Warrington CCG | 91 | 79 | 105 |
| 07M | NHS Barnet CCG | 93 | 83 | 103 |

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| 04J | NHS Nottingham City CCG | 93 | 83 | 104 |
| 00V | NHS Cannock Chase CCG | 93 | 78 | 111 |
| 99H | NHS Wandsworth CCG | 94 | 83 | 105 |
| 01V | NHS Tower Hamlets CCG | 94 | 84 | 106 |
| 08J | NHS Mansfield and Ashfield CCG | 97 | 84 | 112 |
| 02R | NHS Brighton and Hove CCG | 98 | 86 | 110 |
| 06N | NHS Islington CCG | 98 | 86 | 111 |
| 02X | NHS East and North Hertfordshire CCG | 100 | 92 | 108 |
| 04M | NHS South Cheshire CCG | 100 | 86 | 116 |
| 99N | NHS Leeds CCG | 101 | 94 | 108 |
| 02F | NHS Guildford and Waverley CCG | 104 | 91 | 119 |
| 01W | NHS Wakefield CCG | 104 | 94 | 116 |
| 15C | NHS Calderdale CCG | 105 | 92 | 120 |
| 99G | NHS Thanet CCG | 107 | 90 | 125 |
| 08Q | NHS Trafford CCG | 107 | 95 | 122 |
| 03A | NHS Harrogate and Rural District CCG | 108 | 93 | 125 |
| 03K | NHS Redditch and Bromsgrove CCG | 108 | 94 | 124 |
| 03R | NHS Wiltshire CCG | 112 | 103 | 122 |
| 07R | NHS Central London (Westminster) CCG | 112 | 97 | 129 |
| 03H | NHS Oxfordshire CCG | 112 | 105 | 121 |
| 99K | NHS Kingston CCG | 113 | 98 | 130 |
| 15A | NHS Berkshire West CCG | 116 | 106 | 125 |
| 09G | NHS Darlington CCG | 118 | 98 | 140 |
| 01A | NHS Eastern Cheshire CCG | 120 | 105 | 136 |
| 01E | NHS Harrow CCG | 122 | 109 | 137 |
| 01D | NHS Kernow CCG | 125 | 116 | 135 |
| 04C | NHS Milton Keynes CCG | 126 | 113 | 140 |
| 00N | NHS Sutton CCG | 126 | 111 | 143 |
| 05Y | NHS Wirral CCG | 128 | 116 | 141 |
| 06V | NHS Richmond CCG | 133 | 117 | 150 |
| 06A | NHS Greater Preston CCG | 134 | 118 | 151 |
| 06Q | NHS North Kirklees CCG | 137 | 121 | 155 |
| 07W | NHS East Staffordshire CCG | 140 | 120 | 162 |
| 07Y | NHS Leicester City CCG | 148 | 136 | 161 |
| 04G | NHS North Staffordshire CCG | 155 | 139 | 172 |
| 10D | NHS West Cheshire CCG | 160 | 144 | 177 |
| 04V | NHS Birmingham and Solihull CCG | 160 | 153 | 167 |
| 08H | NHS Liverpool CCG | 163 | 152 | 174 |
| 07V | NHS Dudley CCG | 165 | 151 | 179 |
| 08V | NHS West London CCG | 166 | 149 | 184 |
| 04Y | NHS Chorley and South Ribble CCG | 171 | 152 | 191 |
| 08W | NHS Wolverhampton CCG | 172 | 156 | 189 |
| 99D | NHS Stoke on Trent CCG | 199 | 182 | 217 |
| 14Y | NHS Camden CCG | 201 | 183 | 219 |
| 08C | NHS Hammersmith and Fulham CCG | 204 | 184 | 226 |
| 11N | NHS Luton CCG | 242 | 222 | 264 |
| 01C | NHS Greater Huddersfield CCG | 245 | 226 | 265 |
| 11A | NHS Manchester CCG | 253 | 240 | 267 |
| 03N | NHS Southampton CCG | 270 | 250 | 291 |
| 99Q | NHS Southwark CCG | 324 | 305 | 345 |

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| 11E | NHS Bath and North East Somerset CCG | 458 | 428 | 490 |
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