# Supplementary Materials: Prevalence of Integrons and Insertion Sequences in ESBL-Producing *E. coli* Isolated from Different Sources in Navarra, Spain

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**Table S1.** Antimicrobial profiles of ESBL-producing *E. coli* according to their origin.

| Family | Antibiotic[1] | Origin of Strains | | | | |
|---|---|---|---|---|---|---|
| | | Hospital inpatients | Healthy people | WWTPs and rivers | Food | Farms and Feeds |
| Penicillin | AMP | 100 | 92.3 | 100 | 100 | 100 |
| | PIP | 100 | 76.9 | 100 | 100 | 100 |
| Cephalosporin | MZ | 100 | 84.6 | 100 | 100 | 100 |
| | CZ | 100 | 92.3 | 100 | 100 | 100 |
| | CXM | 100 | 92.3 | 100 | 100 | 100 |
| | CPD | 100 | 92.3 | 100 | 100 | 100 |
| | CTX | 100 | 84.6 | 100 | 100 | 100 |
| | CAZ | 100 | 92.3 | 97 | 100 | 95 |
| | FOX | 8.3 | 7.6 | 3 | 4.2 | 20 |
| | FEP | 97.2 | 84.6 | 97 | 100 | 100 |
| Monobactams | AZT | 100 | 84.6 | 97 | 100 | 100 |
| β-lactamase inhibitor | AMC | 47.2 | 23 | 6 | 4.2 | 10 |
| | AMS | 100 | 46.1 | 69 | 41.6 | 65 |
| | TZP | 25 | 0 | 0 | 2.1 | 0 |
| Carbapenem | ETP | 0 | 0 | 0 | 2.1 | 0 |
| | MER | 0 | 0 | 0 | 2.1 | 0 |
| | IMP | 0 | 0 | 0 | 2.1 | 0 |
| Aminoglycosides | AK | 2.7 | 0 | 0 | 0 | 0 |
| | GM | 44.5 | 7.6 | 24.2 | 8.3 | 10 |
| | TO | 61 | 7.6 | 18.2 | 4.1 | 10 |
| Quinolones | LV | 69.5 | 53.8 | 27.3 | 39.5 | 65 |
| | CIP | 69.5 | 7.6 | 33.3 | 60.4 | 70 |
| | MXF | 69.5 | 53.8 | 30.3 | 64.5 | 90 |
| Tetracycline | TET | 80.5 | 30.7 | 75.7 | 91.6 | 90 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | TIG | 0 | 0 | 0 | 2 | 0 |
| | COL | 22.2 | 15.4 | 30.3 | 6.2 | 15 |
| | SXT | 80.5 | 46.1 | 39.3 | 41.6 | 35 |
| Others | FOT | 8.3 | 7.6 | 0 | 2 | 25 |
| | FM | 0 | 0 | 0 | 8.3 | 0 |
| | CHL | 16.6 | 0 | 12.1 | 31.2 | 10 |

[1] Ampicillin, AMP; piperacillin, PIP; mezlocillin, MZ; cefazolin, CZ; cefuroxime, CXM; cefpodoxime, CPD; cefotaxime, CTX; ceftazidime, CAZ, cefoxitin, FOX; cefepime, FEP; aztreonam, AZT; amoxicillin clavulanic acid, AMC; amoxicillin sulbactam, AMS; piperacillin tazobactam, TZP; ertapenem, ETP; meropenem, MER; imipenem, IMP; Amikacin, AK; gentamicin, GM; tobramycin, TO; levofloxacin, LV; ciprofloxacin, CIP; moxifloxacin, MXF; tetracycline, TET; tigecycline, TIG; colistin, COL; trimethoprim sulfamethoxazole, SXT; fosfomycin, FOT; nitrofurantoin, FM; chloramphenicol, CHL.

**Table S2**. Phenotypic and genotypic characteristics of isolates from hospital inpatients (*n*=36)

| Nº | β-lactamase genes | Phylogroup | MLST | | Integrons | | Insertion Sequence | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sequence type (ST) | Clonal complex (CC) | intI1 | intI2 | ISEcp1 | IS26 | IS903 | ISCR1 |
| 1 | *bla*CTX-M-3, *bla*OXA-1 | B2 | ST838 | ST131 | + | - | - | + | + | - |
| 2 | *bla*CTX-M-14, *bla*TEM-42 | A | ST453 | ST86 | + | + | + | + | + | - |
| 3 | *bla*CTX-M-1, *bla*TEM-1 | D | ST563 | ST398 | + | - | + | + | + | - |
| 4 | *bla*CTX-M-15, *bla*TEM-42 | B2 | ST3329 | ST131 | + | - | + | + | + | - |
| 5 | *bla*CTX-M-14, *bla*TEM-1 | A | ST98 | ST10 | + | + | + | + | + | - |
| 6 | *bla*CTX-M-15, *bla*TEM-1 | B2 | ST3329 | ST131 | + | - | + | + | + | - |
| 7 | *bla*CTX-M-15, *bla*OXA-1 | D | ST648 | ST648 | + | - | + | + | + | + |
| 8 | *bla*CTX-M-15, *bla*OXA-1 | B2 | ST3213 | ST131 | + | - | - | + | + | - |
| 9 | *bla*CTX-M-1, *bla*CTX-M-14, *bla*TEM-42 | D | ST867 | ND | + | - | + | + | + | + |
| 10 | *bla*CTX-M-14, *bla*CTX-M-15, *bla*TEM-1 | B1 | ST448 | ST448 | + | - | + | + | + | - |
| 11 | *bla*CTX-M-15, *bla*OXA-1 | B2 | ST3213 | ST131 | + | - | - | + | + | - |
| 12 | *bla*CTX-M-15, *bla*OXA-1 | B2 | ST2704 | ST131 | + | - | - | + | + | - |
| 13 | *bla*CTX-M-15, *bla*TEM-1, *bla*OXA-1 | D | ST405 | ST405 | + | - | - | + | + | - |
| 14 | *bla*CTX-M-15, *bla*OXA-1 | B2 | ST3878 | ST131 | + | - | - | + | + | - |
| 15 | *bla*CTX-M-15, *bla*TEM-1, *bla*OXA-1 | D | ST405 | ST405 | + | - | - | + | + | - |
| 16 | ND[1] | A | ST617 | ST10 | + | - | + | + | + | + |
| 17 | ND | D | ST648 | ST648 | + | - | - | + | - | - |
| 18 | *bla*CTX-M-15, *bla*OXA-1 | D | ST72 | ST405 | + | - | - | + | + | - |
| 19 | *bla*CTX-M-14, *bla*OXA-1 | B2 | ST73 | ST73 | + | - | + | + | + | - |
| 20 | *bla*CTX-M-15, *bla*OXA-1 | B2 | ST3878 | ST131 | + | - | + | + | - | - |
| 21 | *bla*CTX-M-14,*bla*CTX-M-15, *bla*TEM-1 | A | ST617 | ST10 | + | - | + | + | + | - |
| 22 | *bla*CTX-M-14, *bla*CTX-M-15, *bla*TEM-1 | D | ST69 | ST69 | + | - | + | + | + | + |
| 23 | *bla*CTX-M-15, *bla*TEM-1 | D | ST405 | ST405 | + | - | + | + | + | + |
| 24 | *bla*CTX-M-14, *bla*TEM-1 | A | ST410 | ST23 | + | - | + | + | + | + |
| 25 | *bla*CTX-M-15, *bla*OXA-1 | D | ST648 | ST648 | + | - | + | + | + | - |
| 26 | *bla*CTX-M-15, *bla*OXA-1 | B1 | ST94 | ST448 | + | - | - | + | + | - |
| 27 | *bla*CTX-M-14 | D | ST405 | ST405 | - | - | + | + | + | - |
| 28 | *bla*CTX-M-14, *bla*TEM-42 | B2 | ST95 | ST95 | + | - | + | + | + | - |
| 29 | *bla*CTX-M-15, *bla*TEM-1 | D | ST393 | ST31 | + | - | + | + | + | + |
| 30 | *bla*CTX-M-15, *bla*TEM-1 | B2 | ST838 | ST131 | - | - | + | + | + | - |
| 31 | *bla*CTX-M-1, *bla*CTX-M-14 | D | ST685 | ND | + | - | + | + | + | + |
| 32 | *bla*CTX-M-14, *bla*CTX-M-15 | D | ST4849 | ND | + | - | + | + | + | + |
| 33 | *bla*CTX-M-15, *bla*TEM-42, *bla*OXA-1 | B2 | ST4354 | ST131 | + | - | + | + | + | - |
| 34 | *bla*CTX-M-14, *bla*TEM-1 | B2 | ST3213 | ST131 | - | - | + | + | - | - |
| 35 | *bla*CTX-M-14, *bla*CTX-M-15, *bla*TEM-1, *bla*SHV-12 | A | ST410 | ST23 | + | - | + | + | + | - |
| 36 | *bla*CTX-M-14, *bla*TEM-1 | A | ST617 | ST10 | + | - | + | + | + | - |

**Table S3.** Phenotypic and genotypic characteristics of aquatic isolates included in the study (*n*=33)

| Nº | Source[1] | β-lactamase genes | Phylogroup | MLST | | Integrons | | Insertion Sequence | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sequence type (ST) | Clonal complex (CC) | intI1 | intI2 | ISEcp1 | IS26 | IS903 | ISCR1 |
| 1 | WWTP | *bla*CTX-M-14 | B1 | ST616 | ST155 | + | - | + | + | - | - |
| 2 | WWTP | *bla*CTX-M-15, *bla*OXA-1 | A | ST617 | ST10 | + | - | + | + | + | - |
| 3 | WWTP | *bla*CTX-M-15 | B2 | ST3264 | ND[2] | + | - | + | + | + | - |
| 4 | WWTP | *bla*CTX-M-1 | B1 | ST906 | ND | + | - | + | + | + | - |
| 5 | WWTP | *bla*CTX-M-15, *bla*TEM-1, *bla*OXA-1 | B1 | ST4764 | ND | + | - | + | + | + | - |
| 6 | WWTP | *bla*CTX-M-14, *bla*TEM-1 | D | ST57 | ST350 | + | - | + | + | - | - |
| 7 | WWTP | *bla*CTX-M-15 | D | ST950 | ND | + | - | + | + | - | - |
| 8 | WWTP | *bla*CTX-M-14 | A | ST615 | ST46 | + | - | + | + | + | - |
| 9 | WWTP | *bla*CTX-M-1 | A | ST93 | ST168 | + | - | + | + | + | - |
| 10 | WWTP | *bla*CTX-M-1 | D | ST69 | ST69 | + | - | + | + | - | - |
| 11 | WWTP | *bla*CTX-M-14, *bla*TEM-1 | A | ST167 | ST10 | + | - | + | + | - | - |
| 12 | WWTP | *bla*CTX-M-1 | B1 | ST162 | ST469 | + | - | + | + | + | - |
| 13 | WWTP | *bla*CTX-M-15 | A | ST615 | ST46 | - | - | + | + | + | - |
| 14 | WWTP | *bla*TEM-42, *bla*SHV-12 | A | ST611 | ST156 | + | - | + | + | + | - |
| 15 | WWTP | *bla*CTX-M-14 | B1 | ST446 | ST446 | + | - | + | + | + | - |
| 16 | WWTP | *bla*CTX-M-14, *bla*TEM-1 | D | ST686 | ND | + | - | + | + | + | - |
| 17 | R | *bla*CTX-M-1, *bla*TEM-1 | D | ST906 | ND | + | - | + | + | - | - |
| 18 | R | *bla*CTX-M-14 | D | ST3843 | ND | + | - | + | + | + | - |
| 19 | R | *bla*CTX-M-15 | D | ST949 | ND | + | - | + | + | - | - |
| 20 | WWTP | *bla*CTX-M-14 | D | ST398 | ST398 | + | - | + | + | + | - |
| 21 | WWTP | *bla*CTX-M-15, *bla*OXA-1 | D | ST4764 | ND | - | - | + | - | - | - |
| 22 | WWTP | *bla*CTX-M-1 | D | ST469 | ST469 | + | - | + | + | + | - |
| 23 | WWTP | *bla*CTX-M-55 | A | ST3065 | ND | + | - | + | + | + | - |
| 24 | R | *bla*CTX-M-1, *bla*TEM-1 | B1 | ST1285 | ND | + | - | + | + | + | - |
| 25 | R | *bla*CTX-M-1 | D | ST315 | ST38 | + | - | + | + | + | - |
| 26 | R | *bla*CTX-M-1, *bla*TEM-42 | A | ST98 | ST10 | + | - | + | + | + | - |
| 27 | R | *bla*CTX-M-15, *bla*TEM-1 | B1 | ST4212 | ND | + | - | - | + | + | - |
| 28 | R | *bla*CTX-M-15, *bla*TEM-1 | A | ST3530 | ND | + | - | + | + | - | - |
| 29 | R | *bla*SHV-12 | B1 | ST1196 | ND | - | + | - | + | + | - |
| 30 | R | *bla*CTX-M-15, *bla*TEM-1 | A | ST4972 | ND | + | - | + | + | + | + |
| 31 | R | *bla*CTX-M-14 | D | ST915 | ND | + | - | + | + | + | - |
| 32 | R | *bla*CTX-M-14 | A | ST615 | ST46 | + | - | + | + | + | - |
| 33 | R | *bla*CTX-M-14 | A | ST615 | ST46 | + | - | + | + | - | - |

.[1] R: river; WWTP: waste water treatment plant [2] ND: Not detected

**Table S4.** Phenotypic and genotypic characteristics of isolates from food (*n*=48).

| Nº | Source[1] | β-lactamase genes | Phylogroup | MLST | | Integrons | | Insertion Sequence | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sequence type (ST) | Clonal complex (CC) | intI1 | intI2 | ISEcp1 | IS26 | IS903 | ISCR1 |
| 1 | C | *bla*CTX-M-14 | D | ST648 | ST648 | + | + | + | + | + | - |
| 2 | P | *bla*CTX-M-14 | A | ST615 | ST46 | - | - | - | + | + | - |
| 3 | C | *bla*CTX-M-14, *bla*TEM-1 | A | ST615 | ST46 | + | - | + | + | + | - |
| 4 | C | *bla*CTX-M-1 | B1 | ST155 | ST155 | + | - | + | + | + | - |
| 5 | C | *bla*CTX-M-1 | B2 | ST604 | ST101 | + | - | + | + | + | - |
| 6 | P | *bla*CTX-M-1 | B1 | ST179 | ST155 | + | - | + | + | - | - |
| 7 | P | *bla*TEM-42 | B1 | ST776 | ND | - | - | - | + | + | - |
| 8 | C | *bla*TEM-1, *bla*SHV-12 | D | ST880 | ND | + | - | - | + | - | - |
| 9 | B | *bla*CTX-M-14, *bla*TEM-42 | B2 | ST883 | ND | + | - | + | + | - | - |
| 10 | B | *bla*CTX-M-14 | B1 | ST776 | ND | + | + | + | + | - | - |
| 11 | B | *bla*CTX-M-1 | D | ST880 | ND | + | - | + | + | + | - |
| 12 | B | *bla*CTX-M-14 | D | ST57 | ST350 | + | + | + | + | - | + |
| 13 | C | *bla*CTX-M-14 | D | ST349 | ST349 | + | - | + | + | - | + |
| 14 | B | *bla*CTX-M-14 | B1 | ST448 | ST448 | + | - | + | + | + | - |
| 15 | B | *bla*TEM-55 | B1 | ST179 | ST155 | + | - | - | + | + | - |
| 16 | B | *bla*CTX-M-1 | A | ST373 | ST168 | + | - | + | + | - | - |
| 17 | P | *bla*CTX-M-14, *bla*TEM-1 | A | ST44 | ST10 | + | - | - | + | + | - |
| 18 | C | *bla*CTX-M-14 | B2 | ST619 | ST101 | + | + | + | + | - | - |
| 19 | P | *bla*CTX-M-2 | D | ST955 | ND | + | - | - | + | - | + |
| 20 | P | *bla*CTX-M-14, *bla*TEM-42 | D | ST648 | ST648 | + | - | + | + | - | + |
| 21 | P | *bla*CTX-M-14 | A | ST453 | ST86 | - | - | + | + | + | - |
| 22 | C | *bla*CTX-M-15, *bla*TEM-42 | A | ST43 | ST10 | + | - | + | + | + | + |
| 23 | C | *bla*CTX-M-15, *bla*TEM-42 | B1 | ST179 | ST155 | + | - | - | + | - | + |
| 24 | C | *bla*CTX-M-14 | A | ST4402 | ND | + | - | + | + | + | - |
| 25 | C | *bla*CTX-M-14 | A | ST98 | ST10 | + | - | + | + | - | - |
| 26 | B | *bla*CTX-M-8, *bla*TEM-1 | B1 | ST949 | ND | + | - | - | + | - | - |
| 27 | C | *bla*CTX-M-2, *bla*TEM-42 | D | ST844 | ND | + | - | - | + | - | - |
| 28 | C | *bla*SHV-12 | A | ST6648 | ND | + | - | - | + | - | - |
| 29 | C | *bla*CTX-M-1 | F | ST117 | ND | + | - | + | + | - | - |
| 30 | C | *bla*TEML-171, *bla*SHV-12 | B1 | ST101 | ST101 | + | - | - | + | - | - |
| 31 | C | *bla*CTX-M-1 | C | ST23 | ST23 | + | - | + | + | + | - |
| 32 | C | *bla*SHV-12 | F | ST2085 | ND | + | - | - | + | - | - |
| 33 | C | *bla*TEML-278, *bla*SHV-12 | ND | ST2599 | ND | + | - | - | + | + | - |
| 34 | C | *bla*CTX-M-1 | A | ST373 | ST168 | + | - | + | + | + | - |
| 35 | C | *bla*TEML-171, *bla*SHV-12 | ND | ST2062 | ND | + | + | - | + | + | - |
| 36 | C | *bla*SHV-12 | F | ST354 | ST354 | + | + | - | + | + | - |
| 37 | C | *bla*SHV-12 | Clade I or II | ST23 | ST 23 | + | - | - | + | - | - |
| 38 | C | *bla*SHV-12 | A | ND | ND | + | - | - | + | - | - |
| 39 | C | *bla*SHV-12 | A | ST665 | ND | + | + | - | + | - | - |
| 40 | C | *bla*TEML-171, *bla*SHV-12 | F | ST354 | ST35 | + | - | - | + | + | - |
| 41 | C | *bla*CTX-M-1, *bla*SHV-12 | A | ST93 | ST168 | + | + | + | + | + | - |
| 42 | C | *bla*TEML-171, *bla*SHV-12 | B1 | ST937 | ND | + | - | - | + | + | - |
| 43 | C | *bla*TEML-171, *bla*SHV-12 | A | ST10 | ST10 | + | + | + | + | + | - |
| 44 | C | *bla*SHV-12 | F | ST117 | ND | + | - | - | + | + | - |
| 45 | C | ND[2] | F | ST117 | ND | - | - | - | + | + | + |
| 46 | C | ND | B1 | ST1524 | ND | + | - | - | + | + | + |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | C | *bla*CTX-M-14, *bla*TEML-171, *bla*SHV-12 | A | ST6094 | ND | + | - | - | + | + | - |
| 48 | C | ND | B1 | ND | ND | + | - | + | + | + | - |

[1] B: beef; P: pork; C: chicken [2] ND: Not detected

**Table S5**. Phenotypic and genotypic characteristics of isolates from farm origin included in the study (*n*=20)

| Nº | Source[1] | β-lactamase genes | Phylogroup | MLST | | Integrons | | Insertion Sequence | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sequence type (ST) | Clonal complex (CC) | intI1 | intI2 | ISEcp1 | IS26 | IS903 | ISCR1 |
| 1 | S | *bla*TEM-1, *bla*SHV-12 | B2 | ST359 | ND | - | - | - | + | - | - |
| 2 | S | *bla*CTX-M-1, *bla*TEM-1 | B2 | ST3333 | ND | + | - | + | + | + | - |
| 3 | S | *bla*CTX-M-14, *bla*TEM-42 | A | ST10 | ST10 | + | - | + | + | + | - |
| 4 | S | *bla*CTX-M-14, *bla*TEM-42 | A | ST10 | ST10 | + | - | + | + | + | - |
| 5 | S | *bla*CTX-M-1, *bla*TEM-1 | A | ST88 | ST23 | + | - | + | + | - | - |
| 6 | S | *bla*CTX-M-1, *bla*TEM-42 | A | ST88 | ST23 | + | - | + | + | + | - |
| 7 | S | *bla*CTX-M-14, *bla*TEM-1 | B2 | ST610 | ND | + | - | + | + | - | - |
| 8 | S | *bla*CTX-M-1, *bla*TEM-1, *bla*SHV-12, *bla*OXA-1 | B2 | ST891 | ND | + | - | + | + | - | - |
| 9 | S | *bla*SHV-12 | B2 | ST878 | ND | - | - | - | + | - | - |
| 10 | S | *bla*CTX-M-14 | B2 | ST883 | ND | + | - | + | + | - | - |
| 11 | S | *bla*CTX-M-14 | B2 | ST883 | ND | + | - | + | + | - | - |
| 12 | S | *bla*CTX-M-15, *bla*TEM-42 | A | ST617 | ST10 | + | - | - | + | + | - |
| 13 | S | *bla*CTX-M-1 | B2 | ST619 | ST101 | + | - | + | + | - | - |
| 14 | S | *bla*CTX-M-1, *bla*TEM-42, *bla*SHV-12 | A | ST373 | ST168 | + | - | + | + | + | - |
| 15 | F | *bla*CTX-M-1 | B1 | ST3561 | ND | + | - | + | + | - | - |
| 16 | F | *bla*CTX-M-1 | B1 | ST602 | ST446 | + | - | + | + | - | - |
| 17 | F | *bla*CTX-M-1 | B1 | ST446 | ST446 | + | - | + | + | + | - |
| 18 | F | *bla*CTX-M-1 | B1 | ST446 | ST446 | + | - | + | + | - | - |
| 19 | F | *bla*CTX-M-14 | A | ST88 | ST23 | + | - | + | + | - | - |
| 20 | F | *bla*CTX-M-14, *bla*TEML-171 | C | ND[2] | ND | + | - | - | + | + | - |

[1] S: farm soil; F: feed [2] ND: Not detected

**Table S6**. Phenotypic and genotypic characteristics of isolates from healthy people (*n*=13)

| Nº | Sex[1]/age range | β-lactamase genes | Phylogroup | MLST | | Integrons | | Insertion Sequence | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sequence type (ST) | Clonal complex (CC) | intI1 | intI2 | ISEcp1 | IS26 | IS903 | ISCR1 |
| 1 | M40-65 | *bla*CTX-M-14, *bla*TEM-116 | B1 | ST971 | ND | + | - | - | + | + | - |
| 2 | F5-18 | *bla*CTX-M-14, *bla*TEM-116 | A | ST2404 | ND | + | - | - | + | + | + |
| 3 | F18-40 | *bla*CTX-M-1, *bla*TEML-171 | D | ST38 | ST38 | + | - | - | + | + | - |
| 4 | F18-40 | *bla*CTX-M-1, *bla*TEML-171 | ND | ND | ND | + | + | - | + | + | - |
| 5 | M18-40 | *bla*CTX-M-14, *bla*CTX-M-15, *bla*TEML-171 | B2 | ST131 | ST13 | + | - | + | + | - | - |
| 6 | F18-40 | *bla*CTX-M-14 | A | ND | ND | + | - | + | + | - | - |
| 7 | F18-40 | *bla*TEML-171 | A | ND | ND | + | - | + | + | - | - |
| 8 | M40-65 | *bla*CTX-M-15, *bla*TEML-171 | B2 | ST131 | ST131 | + | - | + | + | - | - |
| 9 | M40-65 | *bla*CTX-M-15, *bla*TEML-171 | B2 | ST131 | ST131 | + | - | + | + | + | - |
| 10 | M>65 | *bla*CTX-M-14 | B2 | ST131 | ST131 | + | - | - | + | + | - |
| 11 | M5-18 | *bla*CTX-M-14 | B2 | ST3483 | ST131 | + | - | - | + | + | - |
| 12 | F5-18 | *bla*CTX-M-15 | C | ND | ND | + | - | - | + | - | - |
| 13 | F>65 | ND[2] | D | ND | ND | + | - | - | + | - | - |

[1] F: Female; M: Male [2] ND: Not detected