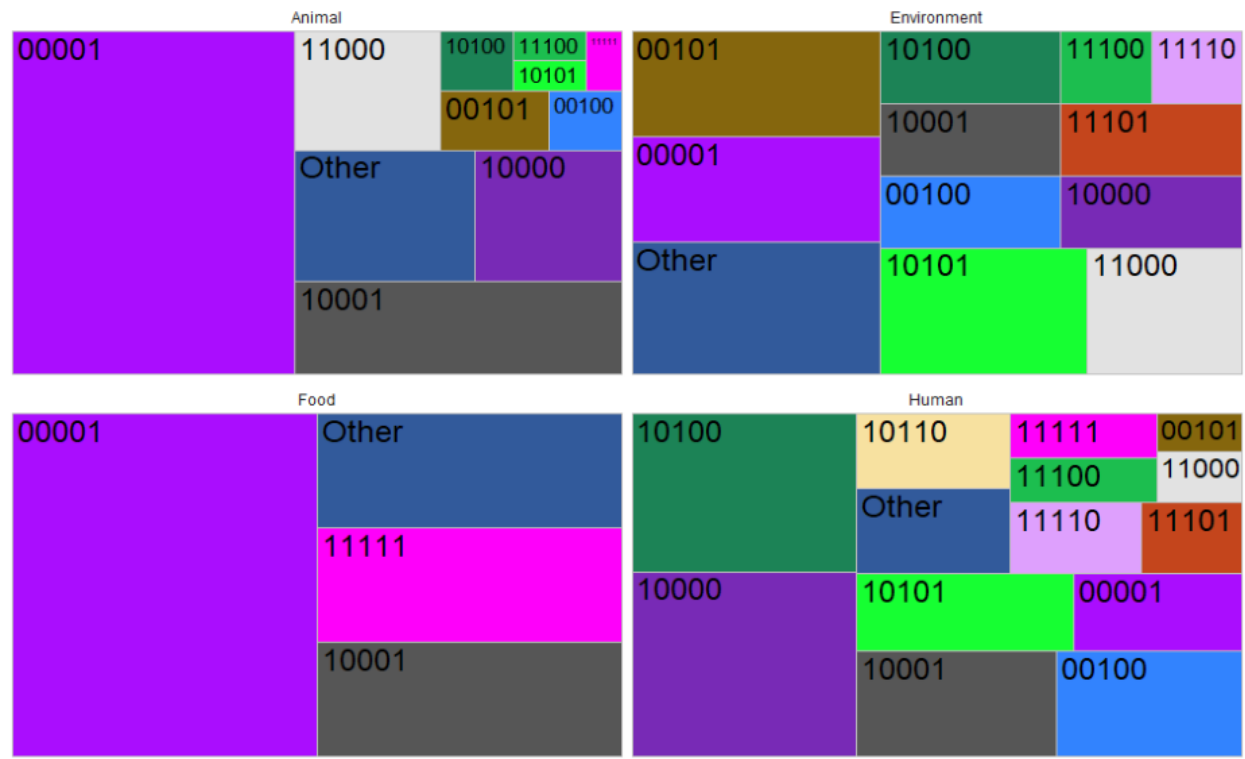


(a)

Distribution of Resistance Profiles by Isolation Source
Excluding Fully Susceptible Profiles



(b)

00000: No predicted resistance to any of the following: ampicillin, ceftazidime, ciprofloxacin, gentamicin, or tetracycline.

10000: Predicted resistance to ampicillin only.

01000: Predicted resistance to ceftazidime only.

00100: Predicted resistance to ciprofloxacin only.

00010: Predicted resistance to gentamicin only.

00001: Predicted resistance to tetracycline only.

11000: Predicted resistance to ampicillin and ceftazidime.

10100: Predicted resistance to ampicillin and ciprofloxacin.

10010: Predicted resistance to ampicillin and gentamicin.

10001: Predicted resistance to ampicillin and tetracycline.

01100: Predicted resistance to ceftazidime and ciprofloxacin.

01010: Predicted resistance to ceftazidime and gentamicin.

01001: Predicted resistance to ceftazidime and tetracycline.

00110: Predicted resistance to ciprofloxacin and gentamicin.

00101: Predicted resistance to ciprofloxacin and tetracycline.

00011: Predicted resistance to gentamicin and tetracycline.

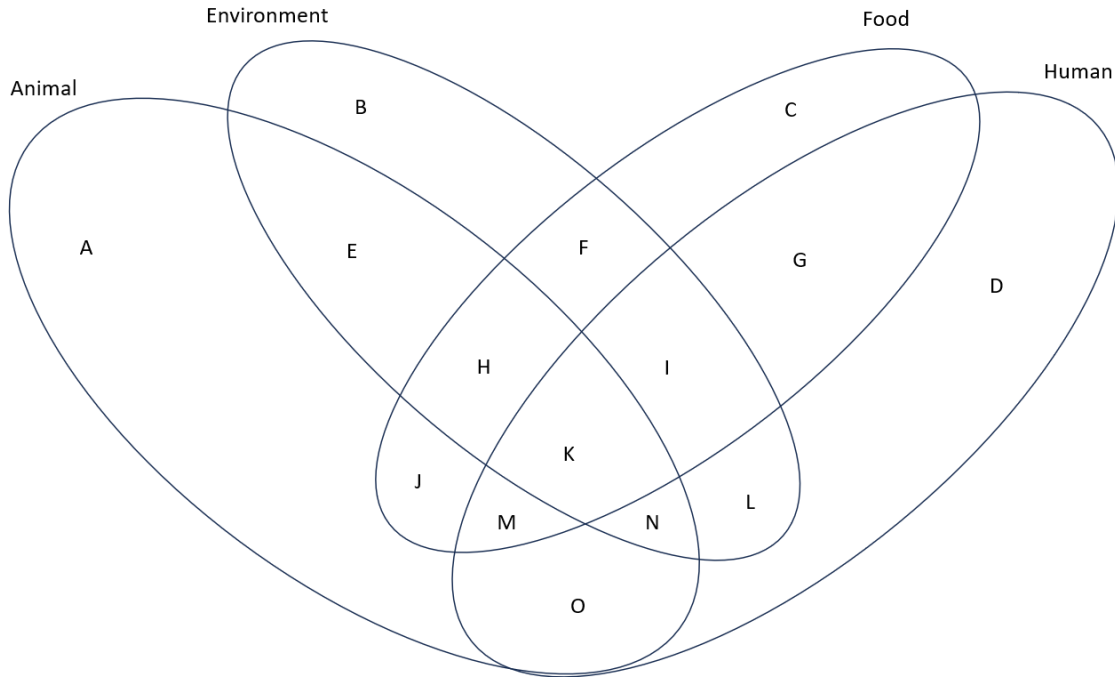
11100: Predicted resistance to ampicillin, ceftazidime, and ciprofloxacin.

11010: Predicted resistance to ampicillin, ceftazidime, and gentamicin.

11001: Predicted resistance to ampicillin, ceftazidime, and tetracycline.

10110: Predicted resistance to ampicillin, ciprofloxacin, and gentamicin.
 10101: Predicted resistance to ampicillin, ciprofloxacin, and tetracycline.
 10011: Predicted resistance to ampicillin, gentamicin, and tetracycline.
 01110: Predicted resistance to ceftazidime, ciprofloxacin, and gentamicin.
 01101: Predicted resistance to ceftazidime, ciprofloxacin, and tetracycline.
 01011: Predicted resistance to ceftazidime, gentamicin, and tetracycline.
 00111: Predicted resistance to ciprofloxacin, gentamicin, and tetracycline.
 11110: Predicted resistance to ampicillin, ceftazidime, ciprofloxacin, and gentamicin.
 11101: Predicted resistance to ampicillin, ceftazidime, ciprofloxacin, and tetracycline.
 11011: Predicted resistance to ampicillin, ceftazidime, gentamicin, and tetracycline.
 10111: Predicted resistance to ampicillin, ciprofloxacin, gentamicin, and tetracycline.
 01111: Predicted resistance to ceftazidime, ciprofloxacin, gentamicin, and tetracycline.
 11111: Predicted resistance to all five of the following antibiotics: ampicillin, ceftazidime, ciprofloxacin, gentamicin, or tetracycline..

Figure S1: (a) Distribution of resistance profiles by isolation source, excluding fully susceptible profiles (profile 00000). (b) Definitions of resistance profiles in terms of predicted resistance.



- A. **Animal:** *aadA10*, *aadA24*, *aadA7*, *bla_{CTX-M-1}*
- B. **Environment:** *bla_{DHA-1}*, *bla_{SHV-2a}*, *lnu(F)*, *qepA4*, *qnrB4*, *qnrB67*
- C. **Food:** *aadA22*, *bla_{NDM-5}*, *bla_{TEM-1D}*, *fosB1*
- D. **Human:** *aac(3)-IIId*, *aac(6)-Ib-cr*, *aac(6)-Ib11*, *aadA16*, *aph(3)-IIa*, *aph(6)-Ic*, *ARR-3*, *bla_{CARB-2}*, *bla_{CTX-M-14}*, *bla_{CTX-M-32}*, *bla_{CTX-M-55}*, *bla_{KPC-2}*, *bla_{OXA-1}*, *bla_{OXA-2}*, *bla_{OXA-9}*, *bla_{TEM-102}*, *bla_{TEM-182}*, *bla_{TEM-6}*, *dfrA8*, *dfrA10*, *dfrA14*, *dfrA16*, *dfrA19*, *dfrA27*, *dfrA36*, *ere(A)*, *erm(B)*, *fosA*, *OqxA*, *OqxB*
- E. **Animal and Environment:** *aac(2)-IIa*, *aac(3)-IV*, *aph(4)-Ia*, *bla_{SHV-12}*
- F. **Environment and Food:** None
- G. **Food and Human:** *tet(D)*
- H. **Animal, Environment, and Food:** *floR*, *fosA7*
- I. **Environment, Food, and Human:** None
- J. **Food and Animal:** *catB3*
- K. **Animal, Environment, Food, and Human:** *aac(3)-IIa*, *aac(3)-Via*, *aadA2*, *aadA5*, *aph(3)-Ia*, *aph(3)-Ib*, *aph(6)-Id*, *dfrA12*, *dfrA17*, *mph(A)*, *sul1*, *sul2*, *tet(A)*, *tet(B)*
- L. **Environment and Human:** *bla_{CTX-M-15}*, *cmlA1*, *qnrS1*, *sul3*
- M. **Animal, Food, and Human:** *bla_{TEM-1A}*, *dfrA1*
- N. **Animal, Environment, and Human:** *aadA1*, *bla_{CMY-2}*, *bla_{TEM-1B}*, *bla_{TEM-1C}*, *catA1*, *dfrA5*, *qnrB19*
- O. **Animal and Human:** *ant(2)-Ia*, *bla_{CTX-M-27}*, *dfrA7*, *tet(C)*

Figure S2 Venn diagram displaying the antibiotic resistance genes detected in isolates from animal, environment, food, and human sources.