Survey of Professional Nurses of Etiologies for Antibiotic Resistance

In this four-question survey, the topic being investigated is the working beliefs on what the etiology/cause is for antibiotic resistance.

- 1. How familiar are you with antibiotics and their use?
 - a. Extremely familiar
 - b. Very familiar
 - c. Somewhat familiar
 - d. Not so familiar
 - e. Not at all familiar

2. Please select all that apply from the options below as to what <u>you</u> believe the cause(s) is/are for bacterial antibiotic resistance:
\Box Chemical countermeasure compounds that the bacteria generate are able to defeat the antibiotic medications (making them ineffective).
$\hfill\square$ The creation of biofilms can prevent antibiotic medication from reaching the bacteria inside.
$\hfill\Box$ Protein pumps in the bacteria that allow it to efflux (pump) out antibiotic medications designed to kill them.
$\hfill\square$ Random mutation of bacteria genes accelerate the evolution of bacteria to defend themselves.
\Box Bacteria have alternate pathways to utilize for necessary metabolic functions that the antibiotic medications are designed to block.
$\ \square$ Patients not taking a course of antibiotics to its full prescribed duration.
$\hfill\square$ Higher acuity of patient presentations in contemporary clinical setting.
☐ Selective pressure from the overuse of antibiotic medications and antiseptic cleansers make bacteria develop new antibiotic resistance (e.g. "dose-response").
\square Something to do with the genetics of the bacteria itself that it has or picked up.
☐ Overuse of antibiotics in agriculture.
☐ None of these.
\square I do not have enough information to answer the question.
☐ I did not understand the question being asked.

3. How many years have you been working as a professional nurse?
a. Less than 1 year
b. Less than 5 years
c. Less than 10 years
d. Less than 15 years

4. What is your highest level of education?

e. More than 15 years

- a. Diploma
- b. Associates
- c. BSN or presently working on it
- d. MSN or presently working on it
- e. PhD or presently working on it
- f. Other
- 5. Optional: This is my first time doing a survey like this, and I would *love to hear* your comments or feedback on your experience taking this survey!