

Article title: Knowledge, Attitude, and Practice Towards Antibiotics Use Among Medical Sector Final-Year Students in Egypt.

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Author name: Nourhan M. Emera

Email address: Nourhan.mo.emera@pharma.cu.edu.eg

Appendix 4. The results of all attitude-related statements.

The attitude of the surveyed students about antibiotics and antibiotic resistance (presented as response frequencies (%)).

Questions of attitudes towards antibiotic use and its resistance (Response)	Total (N = 1250)	MS (N = 217)	PS (N = 388)	DS (N = 291)	NS (N = 354)	P
A.1. When you get a fever, antibiotics help you to get better faster (No)	686 (54.9)	141 (65.0)	234 (60.3)	147 (50.5)	164 (46.3)	<0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.106	P _{MD} = 0.002 ^a	P _{MN} < 0.001 ^a	P _{PD} < 0.036 ^a	P _{PN} < 0.001 ^a	P _{DN} = 0.028 ^a
A.2. When you have a cold, you should take antibiotics to prevent getting a more serious illness. (No)	974 (77.9)	176 (81.1)	331 (85.3)	243 (83.5)	224 (63.3)	<0.001 ^a
Pairwise comparisons (P)	P _{MP}	P _{MD}	P _{MN}	P _{PD}	P _{PN}	P _{DN}

	= 0.398	= 0.0647	< 0.001	= 0.723	< 0.001 ^a	< 0.001 ^a
A.3. You select more expensive and newer antibiotics to provide more effective action and fewer side effects (No)	776 (62.1)	131 (60.4)	267 (68.8)	188 (64.6)	190 (53.7)	<0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.054	P _{MD} = 0.180	P _{MN} = 0.292	P _{PD} = 0.453	P _{PN} < 0.001 ^a	P _{DN} = 0.003 ^a
A.4. It is acceptable to skip one or two doses of antibiotics as long the whole course will be continued (No)	946 (75.7)	164 (75.6)	323 (83.2)	234 (80.4)	225 (63.6)	<0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.064	P _{MD} = 0.308	P _{MN} = 0.001 ^a	P _{PD} = 0.607	P _{PN} < 0.001 ^a	P _{DN} < 0.001 ^a
A.5. You can reduce the dose of antibiotics without consulting your doctor (No)	1087 (87.0)	203(93.5)	347 (89.4)	266(91.4)	271(76.6)	< 0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.240	P _{MD} = 0.354	P _{MN} < 0.001 ^a	P _{PD} =0.344	P _{PN} < 0.001 ^a	P _{DN} <0.001 ^a
A.6. You can take antibiotics at different times each day as long the daily doses are taken. (No)	988 (79.1)	177(81.6)	322 (83.0)	244(84.1)	245(69.2)	< 0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.901	P _{MD} = 0.747	P _{MN} = 0.004 ^a	P _{PD} = 0.919	P _{PN} < 0.001 ^a	P _{DN} <0.001 ^a
A.7. You stop antibiotics use without consulting your doctor (No)	974 (77.9)	181(83.4)	317 (81.7)	247 (84.9)	229 (64.7)	< 0.001 ^a

Pairwise comparisons (P)	P _{MP} = 0.291	P _{MD} = 0.695	P _{MN} < 0.001 ^a	P _{PD} =0.429	P _{PN} < 0.001 ^a	P _{DN} < 0.001 ^a
A.8. You request an antibiotic prescription from your doctor even if the doctor has advised against it (No)	1017 (81.4)	191 (88.0)	315 (81.2)	257 (88.3)	254 (71.8)	< 0.001 ^a
Pairwise comparisons (P)	P _{MP} = 0.010 ^a	P _{MD} = 0.320	P _{MN} < 0.001 ^a	P _{PD} = 0.037 ^a	P _{PN} = 0.008 ^a	P _{DN} < 0.001 ^a
A.9. You follow doctor's instruction when prescribed antibiotics (Yes)	1129 (90.3)	200 (92.2)	339 (87.4)	273 (93.8)	317 (89.5)	0.004 ^a
Pairwise comparisons (P)	P _{MP} = 0.192	P _{MD} = 0.194	P _{MN} =0.239	P _{PD} = 0.001 ^a	P _{PN} =0.167	P _{DN} = 0.018 ^a
A.10. You believe that antibiotics should be prescribed only after culture and sensitivity report (Yes)	906(72.5)	145 (66.8)	296 (76.3)	216 (74.2)	249 (70.3)	0.243
A.11. You ask your physician for antibiotic allergy (Yes)	897 (71.8)	140 (64.5)	292 (75.3)	207 (71.1)	258 (72.9)	0.160
A.12. You contribute to the development of antibiotic resistance, whenever	738(59.0)	110(50.7)	228(58.8)	177(60.8)	223(63.0)	0.038 ^a
Pairwise comparisons (P)	P _{MP} =0.120	P _{MD} = 0.057	P _{MN} = 0.008 ^a	P _{PD} =0.258	P _{PN} = 0.071	P _{DN} = 0.806
A.13.You contribute to the development of antibiotic resistance, whenever you take an antibiotic (Yes)	738 (59.0)	110 (50.7)	228 (58.8)	177 (60.8)	223 (63.0)	0.038 ^a

Pairwise comparisons (P)	P _{MP}	P _{MD}	P _{MN}	P _{PD}	P _{PN}	P _{DN}
	= 0.120	= 0.057	< 0.008 ^a	= 0.258	< 0.071	= 0.806

Abbreviations: MS = Medicine students, PS= Pharmacy students, DS = Dentistry students, NS = Nursing students, N: Number of students.

Comparison between groups and pairwise comparisons were used with the Chi-square Fisher Exact test (the p-value on the right column of the table). P: p-value at level of significance < 0.05, P_{MP}: p-value for comparing medicine and pharmacy, P_{MD}: p-value for comparing medicine and dentistry, P_{MN}: p-value for comparing medicine and nursing, P_{PD}: p-value for comparing pharmacy and dentistry, P_{PN}: p-value for comparing pharmacy and nursing, P_{DN}: p-value for comparing dentistry and nursing.

^a: statistically significant.