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

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Appendix 5 Practice towards antibiotics among participating students

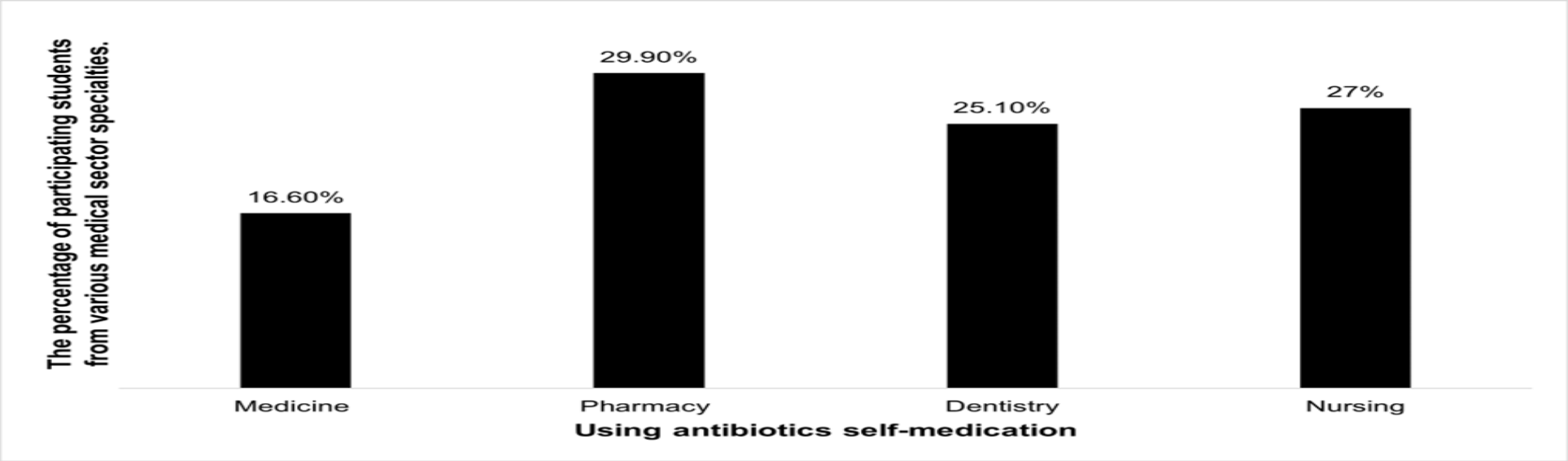

Figure 1. The frequency (Expressed as percentages) of antibiotics self-medication (ABSM) among students of different specialties. (N=1250).

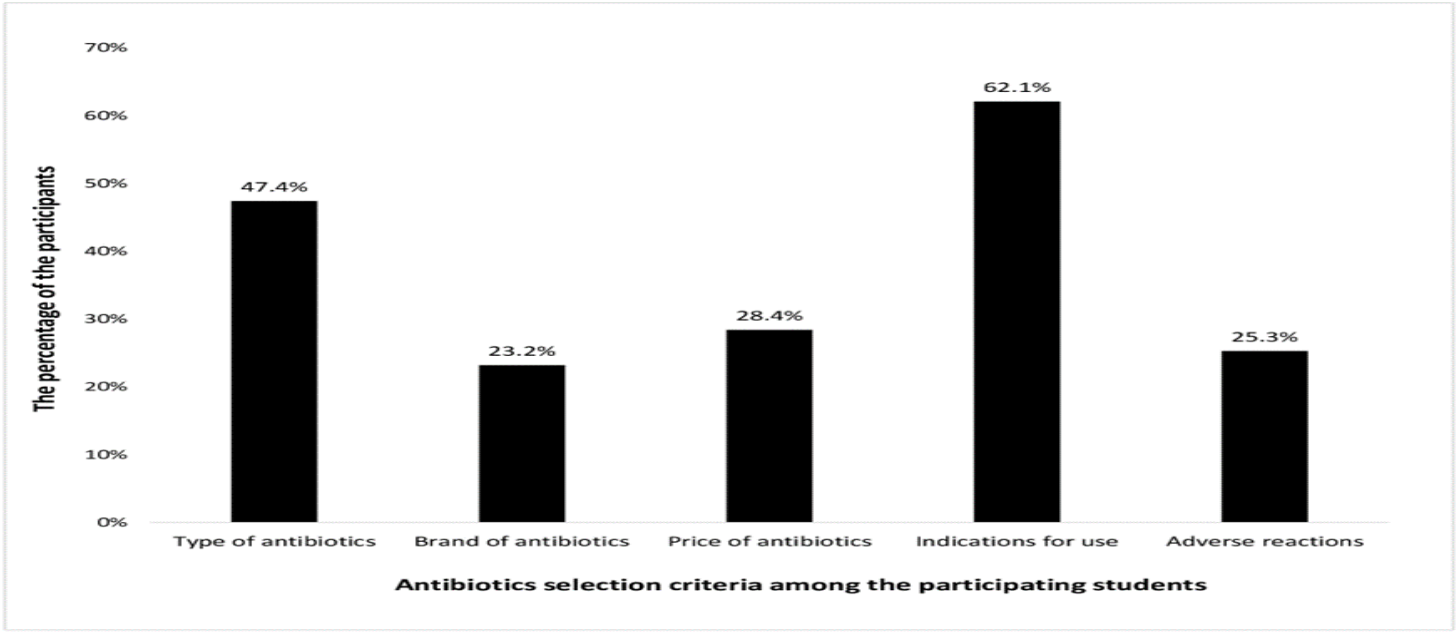

Figure 2. Antibiotics selection criteria among the 1250 surveyed students (Expressed as percentages).

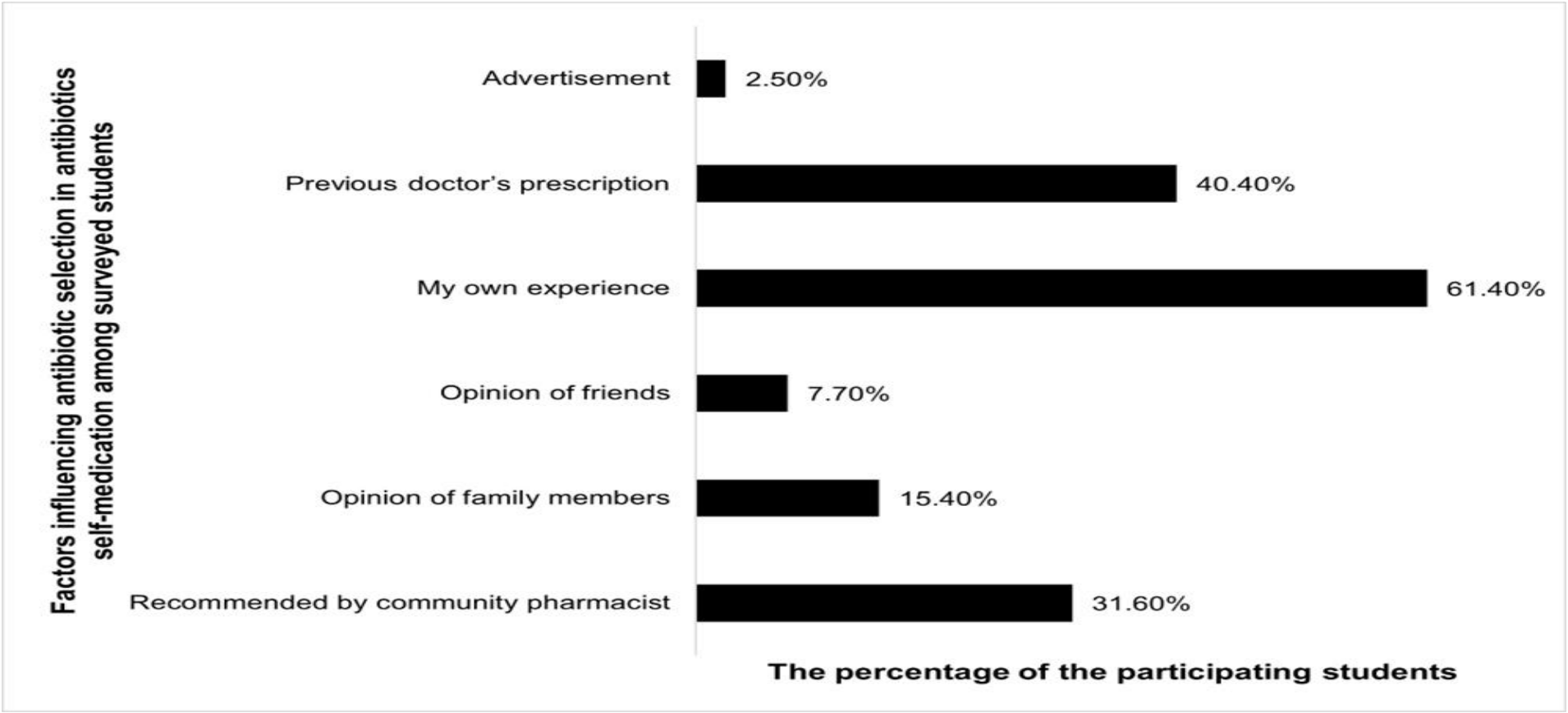

Figure 3. Information resources on antibiotics among the 1250 surveyed students (Expressed as percentages)

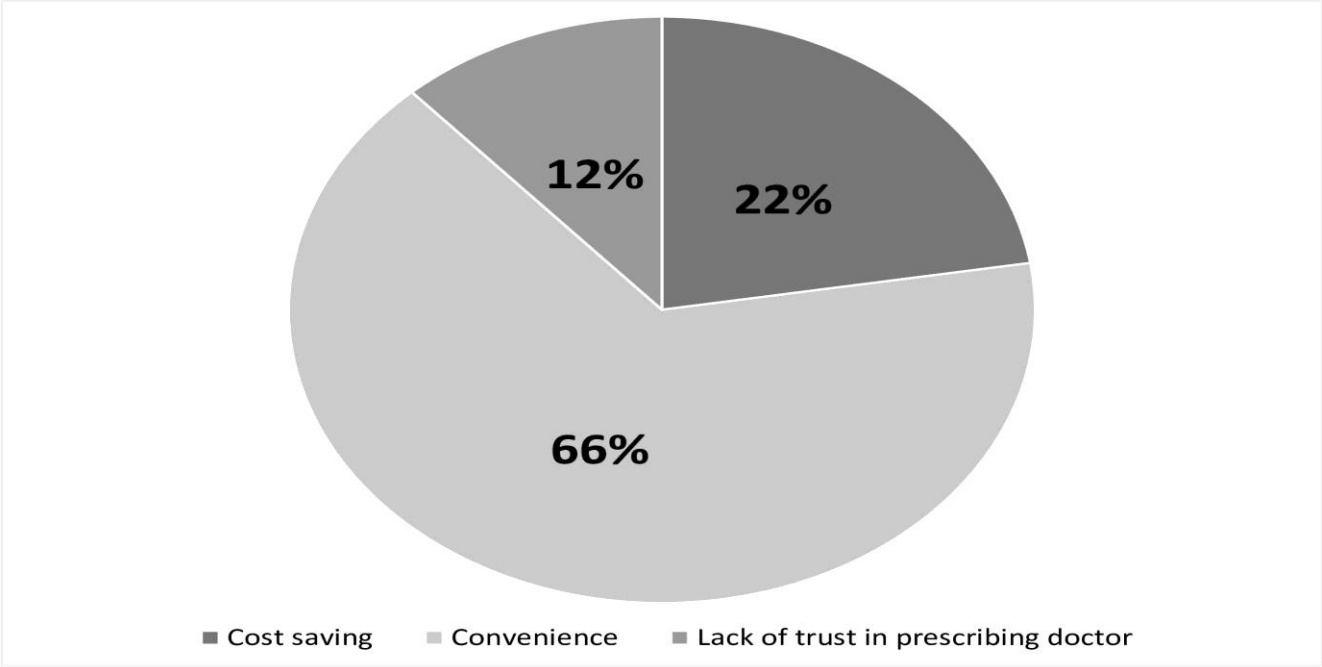

Figure 4. Reasons for antibiotics self-medication as specified by the 1250 surveyed students (Expressed as percentage).

Table 4. The practice of the surveyed students about antibiotics (presented as response frequencies (%)).

Questions of practices towards antibiotic use and its resistance (Response)	**Total (N= 1250)**	**MS (N = 217)**	**PS (N = 388)**	**DS (N= 291)**	**NS (N = 354)**	**P**
Do you consult a doctor before starting antibiotics? (Yes)	871 (69.7)	175 (80.6)	245 (63.1)	201 (69.1)	250 (70.6)	<0.001 [a]
Pairwise comparisons (P)	P_{MP} <0.001 [a]	P_{MD} = 0.011 [a]	P_{MN} = 0.021 [a]	P_{PD} = 0.274	P_{PN} < 0.013 [a]	P_{PN} = 0.160
P.5. The Doctor prescribes a course of antibiotics for you. After taking 2–3 doses you start feeling better						
A.Do you stop taking the further treatment?(No)	1017 (81.4)	188(86.6)	323(83.2)	244(83.8)	262(74.0)	= 0.001 [a]
Pairwise comparisons (P)	P_{MP} =0.271	P_{MD} = 0.427	P_{MN} < 0.001 [a]	P_{PD} = 0.976	P_{PN} < 0.005 [a]	P_{PN} < 0.006 [a]
B. Do you complete the full course of treatment? (Yes)	1038(83.0)	188(86.6)	337(86.9)	240(82.5)	273(77.1)	= 0.002 [a]
Pairwise comparisons (P)	P_{MP} < 0.001 [a]	P_{MD} = 0.091	P_{MN} = 0.502	P_{PD} = 0.006 [a]	P_{PN} < 0.001 [a]	P_{PN} = 0.533
C. Do you save the remaining antibiotics for the next time you get sick? (No)	641 (51.3)	96 (44.2)	230 (61.1)	146 (50.2)	162 (45.8)	<0.001 [a]
Pairwise comparisons (P)	P_{MP} < 0.001 [a]	P_{MD} = 0.091	P_{MN} = 0.502	P_{PD} = 0.006 [a]	P_{PN} < 0.001 [a]	P_{PN} = 0.533

D. Do you discard the remaining antibiotics?	795 (63.6)	152 (70.0)	230(59.3)	204(70.1)	209(59.0)	<0.001 [a]
Pairwise comparisons (P)	P_{MP}	P_{MD}	P_{MN}	P_{PD}	P_{PN}	P_{PN}
	< 0.001 [a]	= 0.091	= 0.502	= 0.006 [a]	< 0.001 [a]	= 0.533
E. Do you give the leftover antibiotics to your friend/family if they get sick? (No)	811 (64.9)	138 (63.6)	275 (70.9)	193 (66.3)	205 (57.9)	0.006 [a]
Pairwise comparisons (P)	P_{MP}	P_{MD}	P_{MN}	P_{PD}	P_{PN}	P_{PN}
	= 0.178	= 0.465	= 0.177	= 0.200	< 0.001 [a]	= 0.039
P.6. If you experience side effects of antibiotics:						
Do you stop taking the antibiotic without consulting a doctor or pharmacist? (Yes)	385 (30.8)	67 (30.9)	97 (25.0)	86 (29.6)	135 (38.1)	<0.001 [a]
Pairwise comparisons (P)	P_{MP}	P_{MD}	P_{MN}	P_{PD}	P_{PN}	P_{PN}
	< 0.043 [a]	= 0.233	< 0.001 [a]	= 0.015 [a]	< 0.001 [a]	< 0.001 [a]
P.7. If you took the wrong antibiotics:						
Do you visit the doctor immediately? (Yes)	808 (64.6)	126 (58.1)	252 (64.9)	177 (60.8)	253 (71.5)	0.013 [a]
Pairwise comparisons (P)	P_{MP}	P_{MD}	P_{MN}	P_{PD}	P_{PN}	P_{PN}
	= 0.130	= 0.374	= 0.001 [a]	= 0.467	= 0.148	= 0.017 [a]
P.8. You read the instructions in the package insert & check the expiry date before taking antibiotics. (Yes)	1096(87.7)	186(85.7)	331(85.3)	266(91.4)	313(88.4)	=0.127

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.