

Appendix 1. Emergency Contraception Knowledge, Attitudes, and Practices Questionnaire and Scoring Key

The goal of this survey is to assess the knowledge, attitudes, and utilization of emergency contraceptives among pharmacy students, as well as potential barriers and educational needs.

Section A: Demographic Information

- i. Age: _____ years
- ii. Sex: (A). Female ☐ (B). Male ☐
- iii. Year of study: (A). 1st Year ☐ (B). 2nd Year ☐ (C). 3rd Year ☐ (D). 4th Year ☐ (E). 5th Year ☐
- iv. Marital status: (A). Single ☐ (B). In a relationship ☐ (C). Married ☐
- v. Religion: (A). Islam ☐ (B). Christianity ☐ (C). Other (please specify): _____
- vi. Have you received formal education or training on emergency contraception during your studies? (A). Yes ☐ (B). No ☐

Section B: Knowledge of Emergency Contraception

1. What is the mechanism of action of emergency contraceptive pills? (A). Prevent or delay ovulation ☐ (B). Induce abortion ☐ **(C) Prevent already established pregnancy** ☐ (D). Don't know ☐
2. Emergency contraceptive pills same as abortion pills: (A). Yes ☐ **(B). No** ☐ (C). Don't know ☐
3. Emergency contraceptive pills could also be called "morning after or post coital pill": **(A). Yes** ☐ (B). No ☐ (C). Don't know ☐
4. Which is a common emergency contraception product in Nigerian drug market: (A). Cytotec® ☐ (B). Mifpak® ☐ **(C). Postinor®** ☐ (D). Don't know ☐
5. What does emergency contraceptive pill contain? (A). Levonorgestrel ☐ **(B). Levonorgestrel plus Ethinyl Estradiol** ☐ (C). Don't know ☐
6. Can emergency contraceptive pills be used for regular contraception? (A). Yes ☐ **(B). No** ☐ (C). Don't know ☐
7. When should the pills be taken to be clinically effective? (A). Before unprotected sexual intercourse ☐ (B). During unprotected sexual intercourse ☐ **(C). After unprotected sexual intercourse** ☐
8. Within how many hours after unprotected sexual intercourse should the pill be best taken? (A). 24 hours ☐ (B). 48 hours ☐ **(C). 72 hours** ☐
9. What is the dose of emergency contraceptive pill? (A). **Single dose of 1.5 mg or 2 doses of 0.75 mg** ☐ (B). Single dose of 2.5 mg, or 2 doses of 1.25 mg ☐ (C). Single dose of 5.0 mg, or 2 doses of 2.5 mg ☐ (D). Don't know ☐
10. Which situations can emergency contraceptive pills be used? **(Tick all that apply)**: (A). **Missed injection due date and had unprotected sex** ☐ **(B). Condom leaked/slipped** ☐ (C). Routine contraception method ☐ **(D). Intercourse without any family planning method** ☐ (E). Induction of abortion ☐ (F). Don't know ☐

11. Is emergency contraceptive pill is a prescription drug in Nigeria? (A). Yes ☐ **(B). No** ☐ (C). Don't know ☐
12. Do emergency contraceptive pills protect from sexually transmitted infections? (A). Yes ☐ **(B). No** ☐ (C). Don't know ☐

Bold = Correct Answer; Scoring: Correct Answer = 1; Incorrect Answer = 0.

Section C: Attitudes Toward Emergency Contraception

Please, **tick (√)** only one option that represents your correct response for each attitude item

SN	Attitudes items	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	Emergency contraceptive pill is safe and has very few contraindications					
2	Adolescents (Teenagers) should be given an easy access to emergency contraceptive pills					
3	*Adolescents (Teenagers) should be discouraged to use emergency contraceptive pills.					
4	*Emergency contraceptive pills discourage regular contraceptive method use among youth.					
5	All sexually active women should be aware of emergency contraception.					
6	Routine information about emergency contraception should be included in contraceptive counseling.					
7	Information on emergency contraception should be included in sex education in schools					
8	*Usage of emergency contraceptive pills is unethical					
9	*It is sinful act to use emergency contraception					
10	*Non-prescription emergency contraception will promote unsafe sex.					
11	*Non-prescription emergency contraceptive pills will discourage regular contraception use.					
12	All females should have the right to access emergency contraception					
13	Emergency contraception offers women a second chance to prevent pregnancy					
14	*Emergency contraceptive pill is an abortifacient and should be banned					

***Negatively worded items**

Scoring: Strongly Disagree = 1, Disagree = 2, Neutral = 3, Agree = 4, Strongly Agree = 5

SECTION D IS FOR “FEMALES” ONLY, WHILE SECTION E IS FOR “MALES” ONLY

Section D: Practice, Reasons for EC First time Use, and Barriers to EC Access- FEMALE Pharmacy Students Only

- Have you ever discussed emergency contraception with a sexual partner? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
- Have you ever used emergency contraceptive pills? (A). Yes ☐ (B). No ☐ (C). Can't say ☐

3. If you had used emergency contraceptive pills before, what was the reason for its use for the first time?
 (A). Condom broke or slipped off ☐ (B). Withdrawal failed ☐ (C). Unprotected casual sexual intercourse ☐
 (D). Rape ☐ (E). Ovulation time was miscalculated ☐ (F). Can't say ☐ (G). Others (specify) _____
 (H). Not applicable to me ☐
4. If needed in future, will you use emergency contraceptive pills? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
5. I am uncomfortable dispensing or recommending emergency contraceptive pill for moral or religious reason? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
6. If needed in future, will you recommend emergency contraceptive pills to someone? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
7. What are the main barriers to using emergency contraception? **(Tick all that apply)**: (A). Lack of knowledge ☐
 (B). Religious or moral beliefs ☐ (C). Social stigma ☐ (D). Cost ☐ (E). Fear of side effects ☐ (F).
 Embarrassment ☐ (G). Difficult access from chemist shops/pharmacies ☐ (H). Others
 (specify) _____

Section E: Practice- MALE Pharmacy Students Only

1. Have you ever purchased emergency contraceptive pills for someone (e.g., partner or friend)? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
2. Have you ever discussed emergency contraceptive pills with someone (e.g., partner or friend)? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
3. Do you feel confident counseling others on emergency contraceptive pills use despite moral and religious reasons? (A). Yes ☐ (B). No ☐ (C). Can't say ☐
4. If needed in future, will you recommend emergency contraceptive pills to someone (e.g., partner or friend)?
 (A). Yes ☐ (B). No ☐ (C). Can't say ☐

Thank you for your participation