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Nigerian pharmacists' self-perceived competence and
confidence to plan and conduct pharmacy practice research

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Online Appendix.

Table 7a: Ranking of self-**competence** score for items assessing ability to plan and conduct research

Research competence domain	Mean score (SD)
Statistical analyses using software (e.g. STATA, SPSS, Epi Info)	2.66 (\pm 1.0)
Choosing and applying appropriate inferential statistical tests and methods	2.69 (\pm 0.9)
Outlining detailed statistical plans to be used in data analyses	2.89 (\pm 0.9)
Writing research proposal or developing a protocol	2.91 (\pm 1.0)
Writing a manuscript for publication in a scientific journal	2.92 (\pm 1.0)
Formulating research hypotheses and research questions	2.99 (\pm 1.0)
Proposing appropriate study designs or methods	3.00 (\pm 0.8)
Determining outcome measures (variables to measure)	3.01 (\pm 0.9)
Ethical considerations	3.08 (\pm 1.0)
Designing a data collection form	3.09 (\pm 1.0)
Developing and validating a study instrument (e.g. questionnaire)	3.10 (\pm 0.9)
Choosing an appropriate sampling technique (e.g. random sampling)	3.12 (\pm 0.9)
Collecting relevant data using preplanned data collection forms	3.14 (\pm 0.9)
Managing and storing data including data entry into a database	3.15 (\pm 1.0)
Critically reviewing research literature	3.18 (\pm 1.0)
Determine appropriate sample size	3.24 (\pm 0.8)
Interpretation of the findings and determining the significance of obtained results	3.25 (\pm 0.9)
Defining target population, sample and eligibility criteria	3.27 (\pm 0.8)
Summarizing data in tables or charts	3.29 (\pm 1.1)
Conception of research idea	3.34 (\pm 0.8)
Preparing a presentation (oral or poster)	3.43 (\pm 1.0)
Searching the literature efficiently	3.55 (\pm 0.9)

SD = standard deviation

Table 8a: Predictors of moderate to extreme self-competence score

Variable	Odds Ratio	95% CI	P value
Gender (Male)	1.653	0.653 – 4.186	0.289
Years of experience (0 – 5 years)			
Years of experience (6 – 10 years)	1.564	0.580 – 4.218	0.377
Years of experience (11 – 15 years)	0.403	0.106 – 1.533	0.182
Years of experience (> 15 years)	2.931	0.696 – 12.339	0.142
Previous research experience	2.494	0.833 – 7.464	0.102
Previous research related training	1.151	0.408 – 3.246	0.791
At least 1 peer-reviewed journal article	6.822	1.977 – 23.537	0.02
At least 1 poster/abstract in local conference since last 5 years	0.597	0.146 – 2.449	0.474
At least 1 poster/abstract in International conference since last 5 years	2.793	0.586 – 13.313	0.197

Table 7b: Ranking of mean self-perceived **confidence score** for items assessing ability to plan and conduct research

Research confidence domain	Mean score (SD)
Statistical analyses using software (e.g. STATA, SPSS, Epi Info)	2.88 (± 1.0)
Choosing and applying appropriate inferential statistical tests and methods	2.90 (± 1.0)
Outlining detailed statistical plans to be used in data analyses	2.97 (± 1.1)
Writing a manuscript for publication in a scientific journal	3.04 (± 1.1)
Proposing appropriate study designs or methods	3.10 (± 1.0)
Determining outcome measures (variables to measure)	3.17 (± 0.9)
Choosing an appropriate sampling technique (e.g. random sampling)	3.20 (± 0.9)
Managing and storing data including data entry into a database	3.20 (± 1.0)
Writing research proposal or developing a protocol	3.22 (± 0.9)
Designing a data collection form	3.22 (± 1.0)
Developing and validating a study instrument (e.g. questionnaire)	3.22 (± 1.0)
Determine appropriate sample size	3.24 (± 0.9)
Ethical considerations	3.25 (± 1.0)
Formulating research hypotheses and research questions	3.27 (± 0.9)
Defining target population, sample and eligibility criteria	3.31 (± 0.9)
Collecting relevant data using preplanned data collection forms	3.34 (± 0.9)
Interpretation of the findings and determining the significance of obtained results	3.37 (± 1.1)
Summarizing data in tables or charts	3.40 (± 0.9)
Preparing a presentation (oral or poster)	3.42 (± 1.0)
Critically reviewing research literature	3.44 (± 0.8)
Conception of research idea	3.51 (± 0.8)
Searching the literature efficiently	3.60 (± 0.9)

SD = standard deviation

Table 8b: Predictors of moderate to extreme self-confidence scores

Variable	Odds Ratio	95% CI	P value
Gender (Male)	2.339	0.919 – 5.951	0.074
Years of experience (0 – 5 years)			
Years of experience (6 – 10 years)	2.313	0.819 – 6.527	0.113
Years of experience (11 – 15 years)	0.555	0.158 – 1.951	0.358
Years of experience (> 15 years)	1.242	0.317 – 4.860	0.756
Previous research experience	1.453	0.507 – 4.165	0.487
Previous research related training	1.403	0.488 – 4.034	0.530
At least 1 peer-reviewed journal article	5.013	1.336 – 18.811	0.017
At least 1 poster/abstract in local conference since last 5 years	1.078	0.238 – 4.876	0.923
At least 1 poster/abstract in International conference since last 5 years	1.886	0.342 – 10.407	0.467