

Supplementary Material S1: search strategies.

Final searches were conducted by a clinical librarian experienced in systematic reviews (TR) on 16 July 2024 and again by DR in January 2026. Records identified by the searches were prospectively citation-searched in Google Scholar, but this did not find any further papers. No limits or filters were applied. Records were deduplicated in RefWorks.

Ovid MEDLINE(R) ALL <1946 to July 16, 2024>

1 Doxycycline/ 11166
2 (doxycycline or adoxa or doryx or doxy or monodox or oracea or periostat or vibramycin or vibra- tabs or vibratabs).ti,ab. 17556
3 1 or 2 21137
4 Post-Exposure Prophylaxis/ 1798
6 (post-exposure prophylaxis or postexposure prophylaxis or post exposure prophylaxis or PEP or DoxyPEP).ti,ab. 22982
7 4 or 6 24182
8 3 and 7 159
9 exp health personnel/ 637631
10 ((health or health care or healthcare) adj1 (profession* or staff or worker* or personnel or provider*)).ti,ab. 230549
11 (doctor* or physician* or nurse* or prescriber* or clinician*).ti,ab. 1193614
12 9 or 10 or 11 1729196
13 exp "Attitude of Health Personnel"/ 172697
14 (attitude* or belief* or opinion* or perspective* or experience* or view* or concern*).ti,ab. 3331058
15 13 or 14 3426205
16 8 and 12 and 15 4

Embase <1974 to 2024 Week 28>

1 doxycycline/ 71333
2 (doxycycline or adoxa or doryx or doxy or monodox or oracea or periostat or vibramycin or vibra- tabs or vibratabs).ti,ab. 26421
3 1 or 2 74271
4 post exposure prophylaxis/ 5027

6 (post-exposure prophylaxis or postexposure prophylaxis or post exposure prophylaxis or PEP or DoxyPEP).ti,ab. 34481
7 4 or 5 or 6 38320
8 3 and 7 447
9 exp health care personnel/ 2081861
10 ((health or health care or healthcare) adj1 (profession* or staff or worker* or personnel or provider*)).ti,ab. 300338
11 (doctor* or physician* or nurse* or prescriber* or clinician*).ti,ab. 1620687

12 9 or 10 or 11 3122342

13 exp health personnel attitude/ 210578

14 (attitude* or belief* or opinion* or perspective* or experience* or view* or concern*).ti,ab. 4349615

15 13 or 14 4480151

16 8 and 12 and 15 19

CINAHL (EBSCO)

#	Query	Results
S1	(MH "Doxycycline")	2,186
S2	((TI doxycycline OR AB doxycycline) OR (TI adoxa OR AB adoxa) OR (TI doryx OR AB doryx) OR (TI doxy OR AB doxy) OR (TI monodox OR AB monodox) OR (TI oracea OR AB oracea) OR (TI periostat OR AB periostat) OR (TI vibramycin OR AB vibramycin) OR (TI vibra-tabs OR AB vibra-tabs) OR (TI vibratabs OR AB vibratabs))	2,197
S3	(MH "Postexposure Follow-Up")	1,802
S5	((TI "post-exposure prophylaxis" OR AB "post-exposure prophylaxis") OR (TI "postexposure prophylaxis" OR AB "postexposure prophylaxis") OR (TI "post exposure prophylaxis" OR AB "post exposure prophylaxis") OR (TI PEP OR AB PEP) OR (TI DoxyPEP OR AB DoxyPEP))	7,683
S6	(S1 or S2) AND (S3 or S4 or S5)	75
S7	(MH "Health Personnel+")	655,027
S8	((((TI health OR AB health) OR (TI "health care" OR AB "health care") OR (TI healthcare OR AB healthcare)) N1 ((TI profession* OR AB profession*) OR (TI staff OR AB staff) OR (TI worker* OR AB worker*) OR (TI personnel OR AB personnel) OR (TI provider* OR AB provider*))) "230549" ((TI doctor* OR AB doctor*) OR (TI physician* OR AB physician*) OR (TI nurse* OR AB nurse*) OR (TI prescriber* OR AB prescriber*) OR (TI clinician* OR AB clinician*)))	0
S9	(MH "Attitude of Health Personnel+")	132,583

S10	((TI attitude* OR AB attitude*) OR (TI belief* OR AB belief*) OR (TI opinion* OR AB opinion*) OR (TI perspective* OR AB perspective*) OR (TI experience* OR AB experience*) OR (TI view* OR AB view*) OR (TI concern* OR AB concern*))	1,046,944
S11	(S7 or S8) AND (S9 or S10)	152,775
S12	S6 AND S11	1

MedRxiv (<https://www.medrxiv.org>): ("doxycycline" AND "Post-Exposure Prophylaxis") OR ("doxycycline AND "pre-exposure prophylaxis") OR ("Doxy-PEP") OR ("doxycycline" AND "PrEP")

Supplementary Material S2: risk of bias assessment		
Manuscript title	Risk of Bias	Comments
Park JJ et al. (2021) Southern California, USA	High	Recruitment through convenience sampling may indicate recruitment bias. Closed question survey limited data. More information on GBMSM than HCP attitudes, although able to focus on HCP data. Appropriate statistical analysis.
Pearson WS et al. (2024) Atlanta, Georgia, USA	Medium	Study settings and subjects were not discussed in detail. Closed question survey limited data. Clearly defined inclusion criteria. Appropriate statistical analysis.
Mogaka FO. (2025) Kisumu, Kenya	High	Ethical approval was sought and approved. Small qualitative study of healthcare professionals in Kenya.
Perkins RC. (2025), Washington, USA	Medium	Limited opinions from Black and Hispanic HCP. No evidence of potential influence of researcher bias. HCPs asked had previous experience of prescribing HIV-PrEP so may have bias towards prescribing DoxyPEP. Good congruity between research methodology and research objectives.
Cornelisse VJ et al. (2024), NSW Australia	Medium	One participant withdrew due to concerns about AMR, therefore wasn't represented in the research. No anonymity. No evidence of ethical approval. Consulted a diverse range of clinical experts in gathering opinions on doxyPEP. Open ended format permitted wide range of exploration of themes.
Phillips C et al. (2025), UK	Medium	Small anonymous quantitative study of sexual health clinicians working in the south of England.
Allan Blitz et al (2025) USA	medium	Small mixed method (patients and healthcare workers) cross-sectional analysis
Imerlishvili E et al (2025) USA	Low	Large (90) cross-sectional online survey