1 Supplementary Material 1: PRISMA Checklist

Section/topic	ection/topic # Checklist item					
TITLE						
Title	1	Identify the report as a systematic review, meta-analysis, or both	# 01 (Title)			
ABSTRACT						
Structured summary	# 02 (Abstract)					
INTRODUCTION						
Rationale	3	Describe the rationale for the review in the context of what is already known	# 03 (Introduction)			
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS)	# 03 (Introduction)			
METHODS						
Protocol and registration	# 04 (Materials and methods)					
Eligibility criteria	bility criteria 6 Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale					
Information sources	rmation sources 7 Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched					
Search	Ch 8 Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated					
Study selection						
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators	# 04 (Data extraction)			
Data items						
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis	# 04 (Quality assessment)			
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means)	-			
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I ²) for each meta-analysis	-			

Risk of bias across studies	t of bias across studies 15 Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies)						
Additional analyses	-						
RESULTS		·					
Study selection	udy selection17Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram						
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations	# 05 (Characteristics of the selected studies)				
Risk of bias within studies	# 05 (Characteristics of the selected studies) and Supplementary material 3.						
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot	# 05-06 (Patient characteristics, Clinical presentation and antecedents, and Isolated bacterias), and # 15-19 (Table 2 and Table 3)				
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency	-				
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15)	-				
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16])	-				
DISCUSSION							
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers)	# 07-08 (DISCUSSION)				
Limitations	# 08 (DISCUSSION)						
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research	#09 (CONCLUSIONS)				
FUNDING		·	•				
Funding27Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic reviewF							

2 Supplementary Material 2: Search Strategies

2.1 PubMed/MEDLINE Search Strategy

Search strategy	Formulas
#1	"Body Piercing"[MH] OR "Body Piercings"[MH] OR "Piercings, Body"[MH] OR "Piercing, Body"[MH] OR "Nipple Piercing"[MH] OR "Nipple Piercings"[MH] OR "Piercings"[MH] OR
#2	"Ear Piercing" [MH] OR "Ear Piercings" [MH] OR "Piercing, Ear" [MH] OR "Piercings, Ear" [MH] OR "Lip Piercing" [MH] OR "Lip Piercings" [MH] OR "Piercing, Lip" [MH] OR "Piercings, Lip" [MH] OR "Navel Piercing" [MH] OR "Navel Piercings" [MH] OR "Piercing, Navel" [MH] OR "Piercings, Navel" [MH] OR "Tongue Piercing" [MH] OR "Piercing, Navel" [MH] OR "Piercings, Navel" [MH]
#3	#1 NOT #2
#4	"Bacterial infections"[MH] OR "Infection"[MH] OR "Infections Bacterial"[MH] OR "Infection Bacterial"[MH] OR "Bacterial Disease"[MH] OR "Bacterial Diseases"[MH] OR "Bacterial"[TIAB] OR "Bacterial Diseases"[OT] OR "Cram-Negative Bacterial Infections, Gram-Negative Bacterial Infections, Gram-Negative Bacterial Infections, Gram-Positive Bacterial Infections, Gram-Positive"[MH] OR "Bacterial Infections"[MH] OR "Bacterial Infections, Gram-Positive Bacterial Infections, Gram-Positive Bacterial Infections, Gram-Positive Bacterial Infections"[MH] OR "Bacterial Infection
#5	#3 AND #4
TOTAL	175

2.2 Scopus Search Strategy

Search strategy	Formulas
#1	"Body Piercing*" OR "Nipple Piercing*"
#2	"Ear Piercing*" OR "Lip Piercing*" OR "Navel Piercing*" OR "Tongue Piercing*" OR "Eyebrow Piercing*" OR "genital piercing*" OR "oral piercing*" OR "nose piercing*"
#3	#1 AND NOT #2
#4	"Bacterial infection*" OR "Infectio*" OR "Infection* Bacterial" OR "Bacterial Disease*" OR Bacteremia* OR Bacterial Endocarditis" OR "Bacterial Endocarditides" OR "Gram-Negative Bacterial Infection*" OR "Gram Negative Bacterial Infection*" OR "Gram-Positive Bacterial Infection*" OR "Gram-Positive Bacterial Infection*" OR "Bacterial Skin Disease*" OR Mastitis OR "subacute endocarditis" OR "Gram negative bacterium*" OR "Gram negative infection*" OR "Gram positive bacterium*" OR "Gram negative infection*" OR "Gram positive bacterium*" OR "Gram negative infection*" OR "Gram bacterial Infection*" OR "Bacterial Skin Disease*" OR Mastitis OR "subacute endocarditis" OR "Gram negative bacterium*" OR "Gram negative infection*" OR "Gram positive bacterium*" OR "Gram positive infection*" OR "Breast abscess*" OR "granulomatous mastitis"
#5	#3 AND #4
TOTAL	444

2.3 Embase Search Strategy

Search strategy	Formulas
#1	('body piercing'/exp OR 'body piercing' OR 'nipple piercing'/exp OR 'nipple piercing')
#2	('ear piercing'/exp OR 'ear lobe piercing' OR 'ear piercing' OR 'tongue piercing'/exp OR 'lingual piercing' OR 'tongue piercing' OR 'lip piercing' OR 'lip piercing' OR 'lip piercing' OR 'intra-oral piercing' OR 'intraoral piercing' OR 'oral piercing' OR 'genital piercing'/exp OR 'genital piercing' OR 'nose piercing'/exp OR 'nose piercing' OR 'nose pierc
#3	#1 NOT #2
#4	('bacterial infection'/exp OR 'bacteria infection' OR 'bacterial infection' OR 'bacterial infections' OR 'bacterium infection' OR 'infection, bacterial' OR 'bacteremia' OR 'bacteremia' OR 'bacterial' OR 'subacute endocarditis', or 'infective' OR 'infective or 'infective endocarditis' OR 'gram negative bacterial' OR 'gram negative bacteria' OR 'gram positive bacteria' OR 'gram positive bacteria' OR 'gram positive 'OR 'gram negative organism' OR 'gram-positive bacteria' OR 'gram positive bacteria' OR 'gram positive bacteria' OR 'gram positive infection' OR 'gram negative organism' OR 'gram positive organism' OR 'gram-positive organism' OR 'gram negative organism' OR 'gram negative infection' OR 'gram negative bacterial infection' OR 'gram negative organism' OR 'gram negative organism' OR 'gram negative organism' OR 'gram positive infection' /exp OR 'gram negative bacterial infection' OR 'gram positive infection' OR 'gram negative bacterial infection' OR 'gram negative bacterial oR 'gram positive infection' OR 'gram negative bacterial infection' OR 'gram positive infection' OR 'gram negative ba
#5	#3 AND #4
TOTAL	486

Attachment 1 to: Acuña-Chávez LM, Alva-Alayo CA, Aguilar-Villanueva GA, Zavala-Alvarado KA, Alverca-Meza CA, Aguirre-Sánchez MM, Amaya-Castro AA. Bacterial infections in patients with nipple piercings: a qualitative systematic review of case reports and case series. GMS Infect Dis. 2022;10:Doc03. DOI: 10.3205/id000080, URN: urn:nbn:de:0183-id0000802

2.4 Ovid/MEDLINE Search Strategy

Search strategy	Formulas
#1	exp Body Piercing/ or Body Piercing.mp. or (body piercing or body piercings or nipple piercing or nipple piercings or piercing, body or piercing, nipple or piercings, body or piercing, nipple or piercings, body or piercings, nipple).mp.
#2	(ear piercing or ear piercings or eyebrow piercing or eyebrow piercings or lip piercing or lip piercings or navel piercing or navel piercings or piercing, ear or piercing, eyebrow or piercing, lip or piercings, navel or piercings, tongue or piercings, ear or piercings, eyebrow or piercings, lip or piercings, navel or piercings, tongue or tongue piercing or tongue piercings).mp.
#3	#1 NOT #2
#4	((exp Bacterial Infections/ OR Bacterial Infections.mp) OR (exp Bacteremia/ OR Bacteremia.mp) OR (exp Endocarditis, Bacterial/ OR Endocarditis, Bacterial.mp) OR (exp Endocarditis, Bacterial/ OR Endocarditis, Bacterial.mp) OR (exp Endocarditis, Bacterial Infections/ OR Gram-Negative Bacterial Infections/ OR Gram-Negative Bacterial Infections/ OR Gram-Negative Bacterial Infections.mp) OR (exp Gram-Positive Bacterial Infections/ OR Gram-Negative Bacterial Infections.mp) OR (exp Skin Diseases, Bacterial/ OR Skin Diseases, Bacterial.mp)) OR (exp Infection/ OR Infection.mp OR bacterial infections.mp OR infection, bacterial endocarditis.mp OR endocarditides, bacterial.mp OR endocarditides, bacterial.mp OR endocarditides, bacterial.mp OR endocarditis, subacute bacterial endocarditides, subacute bacterial endocarditides, subacute bacterial endocarditides, subacute bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial.mp OR endocarditis, subacute bacterial.mp OR subacute bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial endocarditis, gram-negative bacterial endocarditides, mp OR subacute bacterial endocarditis, subacute bacterial endocarditis, subacute bacterial endocarditis, gram-negative bacterial infections, mp OR (bacterial infection, gram-negative.mp OR gram-negative bacterial infections, mp OR gram-negative bacterial infections, gram-negative bacterial infections, gram-positive.mp OR bacterial infections, gram-positive bacterial infections, mp OR infection, gram-positive bacterial infections, mp OR infection, gram-positive bacterial infections, gram-positive
#5	#3 AND #4
TOTAL	288

3 Supplementary Material 3: Critical Appraisal Checklist according to Joanna Briggs Institute

Author	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Overall appraisal
Brook I [17]	Y	NA	Y	Y	Y	Y	NA	Y	Include
De Kleer N [18]	Y	Υ	Y	Υ	Υ	Y	NA	Y	Include
Siddique N [29]	Y	Y	Y	Y	Y	Y	Y	Y	Include
Ceniceros A [31]	Υ	Υ	Y	Y	Υ	Υ	Y	Y	Include
Cornelissen A [32]	Υ	U	Y	Y	U	Y	NA	Y	Include
Drifmeyer E [26]	Υ	U	Y	Υ	U	U	NA	Y	Include
Abbas K [33]	Υ	U	Y	Y	Υ	Y	Y	Y	Include
Pearlman M [34]	Y	Y	Y	Y	Y	Y	NA	Y	Include
Abdulrahman G [35]	Y	Y	Y	Y	Y	Y	NA	Y	Include
Trupiano J [36]	Y	U	Y	Y	Y	Y	NA	Y	Include
Lewis C [37]	Υ	U	Y	Υ	Υ	Υ	NA	Y	Include
Jacobs V [19]	Υ	Υ	Y	Y	Υ	Υ	NA	Y	Include
Jacobs V [19] ^a	Υ	Y	Y	Υ	Υ	Υ	NA	Y	Include
Zardawi I [20]	Υ	Υ	Y	Y	Υ	U	NA	Y	Include
Pendle S [21]	Y	Y	Y	Y	Y	Y	NA	Y	Include
Ochsenfahrt C [22]	Υ	Y	Y	Υ	U	Y	NA	Y	Include
Bader M [23]	Y	Y	Y	Y	Y	Y	NA	Y	Include
Maroun E [24]	Y	Y	Y	Y	Y	U	NA	Y	Include
Bengualid V [25]	Y	Y	Y	U	Y	U	NA	Y	Include

3.1 Quality Assessment of Case Reports according to Joanna Briggs Institute Critical Appraisal Checklist

Item 1: Were patient's demographic characteristics clearly described?; Item 2: Was the patient's history clearly described and presented as a timeline?; Item 3: Was the current clinical condition of the patient on presentation clearly described?; Item 4: Were diagnostic tests or assessment methods and the results clearly described?; Item 5: Was the intervention(s) or treatment procedure(s) clearly described?; Item 6: Was the post-intervention clinical condition clearly described?; Item 7: Were adverse events (harms) or unanticipated events identified and described?; Item 8: Does the case report provide takeaway lessons? Y: Yes; N: No; U: Unclear; NA: Not applicable; ^asecond eligible case from the same article, ^bthird eligible case from the same article

Author	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Overall appraisal
Shoyele O [28]	Y	Y	Y	Y	Y	Υ	Ν	Y	Y	NA	Include
Leibman A [27]	Y	Y	Y	Y	Y	Ν	Ν	Ν	Y	NA	Include
Leibman A [27] ^a	Y	Y	Y	Y	Y	Ν	Ν	Ν	Y	NA	Include
Leibman A [27] ^b	Y	Y	Y	Y	Y	Ν	Ν	Ν	Y	NA	Include
Baker G [30]	Y	U	U	U	Y	Y	Y	Y	NA	NA	Include
Baker G [30] ^a	Y	U	U	U	Y	Y	Y	Y	NA	NA	Include
Baker G [30] ^b	Y	U	U	U	Y	Y	Y	Y	NA	NA	Include
Baker G [30] ^c	Y	U	U	U	Y	Y	Y	Y	NA	NA	Include

3.2 Quality Assessment of Case Series according to Joanna Briggs Institute Critical Appraisal Checklist

Item 1: Were there clear criteria for inclusion in the case series?; Item 2: Was the condition measured in a standard reliable way for all participants included in the case series?; Item 3: Were valid methods used for the identification of the condition for all participants included in the case series?; Item 4: Did the case series have consecutive inclusion of participants?; Item 5: Did the case series have complete inclusion of participants?; Item 6: Was there clear reporting of demographics of the participants in the study?; Item 7: Was there clear reporting of clinical information of the participants?; Item 8: Were the outcomes of follow up results of cases clearly reported?; Item 9: Was there clear reporting of the presenting site(s)/clinic(s) demographic information?; Item 10: Was statistical analysis appropriate?. Y: Yes; N: No; U: Unclear; NA: Not applicable; ^asecond eligible case from the same article, ^bthird eligible case from the same article, ^cfourth eligible case from the same article