

Supplementary materials (SM)

SM1: Chart 1 - Search strategies, applied by information sources on October 23rd, 2021, during the process to identify studies in the scientific literature.

Sources of information	Search strategy	Search field	Identified results
MEDLINE	(“Soft Surface” OR “Soft Surfaces” OR Woven OR Wovens OR Nonwoven OR Nonwovens OR Textiles[Mesh] OR Textile OR Textiles OR Fabric OR Fabrics OR “Cotton Fiber”[Mesh] OR “Cotton Fiber” OR “Cotton Fibers” OR “Cotton Fabric” OR “Cotton Fabrics” OR Cotton OR Cottons OR Polyesters[Mesh] OR Polyester OR Polyesters OR “Bedding and Linens”[Mesh] OR Bedding OR Beddings OR Linen OR Linens OR Clothing[Mesh] OR Clothing OR Clothes OR Uniform OR Uniforms OR “Protective Clothing”[Mesh] OR “Protective Clothing” OR “Protective Clothes” OR Scrub OR Scrubs OR Gown OR Gowns OR “White Coat” OR “White Coats” OR “Lab Coat” OR “Lab Coats” OR Curtain OR Curtains) AND (Impregnated OR Impregnation OR Impregnating OR Incorporated OR Incorporation OR Incorporating OR Coated OR Coating OR Finish OR Finished OR Finishing OR Doped) AND (“Self-Disinfecting” OR Antimicrobial OR Antimicrobials OR Microbicide OR Microbicides OR Antibacterial OR Antibacterials OR Bactericide OR Bactericides OR Sporicide OR Sporicides OR Sporicidal OR Sporicidals OR Antifungal OR Antifungals OR Antifungal OR Antifungals OR Fungicide OR Fungicides OR Antiviral OR Antivirals OR Viricide OR Viricides OR Biocide OR Biocides OR Inactivated OR Inactivating) AND (“Cross Infection”[Mesh] OR “Cross Infection” OR “Cross Infections” OR “Healthcare Associated Infection” OR “Healthcare Associated Infections” OR “Healthcare Acquired Infection” OR “Healthcare Acquired Infections” OR “Nosocomial Infection” OR “Nosocomial Infections” OR “Hospital Acquired Infection” OR “Hospital Acquired Infections” OR “Hospital Infection” OR “Hospital Infections” OR “HAI” OR “HAIs” OR Contamination OR Contaminations OR “Microbial Contamination” OR “Microbial Contaminations” OR “Microbial Load” OR “Microbial Loads” OR “Bacterial Contamination” OR “Bacterial Contaminations” OR “Bacterial Load”[Mesh] OR “Bacterial Load” OR “Bacterial Loads” OR “Bacterial Count” OR “Bacterial Counts” OR Bioburden)	All fields	438
EMBASE	('Soft Surface' OR 'Soft Surfaces' OR Woven OR Wovens OR Nonwoven OR Nonwovens OR 'Textile'/exp OR Textile OR 'Textiles'/exp OR Textiles OR 'Fabric'/exp OR Fabric OR Fabrics OR 'Cotton Fiber'/exp OR 'Cotton Fiber' OR 'Cotton Fibers' OR 'Cotton Fabric'/exp OR 'Cotton Fabric' OR 'Cotton Fabrics' OR 'Cotton'/exp OR Cotton OR Cottons OR 'Polyester'/exp OR Polyester OR 'Polyesters'/exp OR Polyesters OR Bedding OR Beddings OR 'Linen'/exp OR Linen OR Linens OR 'Clothing'/exp OR Clothing OR 'Clothes'/exp OR Clothes OR Uniform OR Uniforms OR 'Protective	All fields	329

	<p>Clothing'/exp OR 'Protective Clothing' OR 'Protective Clothes' OR 'Scrub'/exp OR Scrub OR Scrubs OR 'Gown'/exp OR Gown OR Gowns OR 'White Coat'/exp OR 'White Coat' OR 'White Coats' OR 'Lab Coat' OR 'Lab Coats' OR Curtain OR Curtains) AND (Impregnated OR Impregnation'/exp OR Impregnation OR Impregnating OR Incorporated OR Incorporation'/exp OR Incorporation OR Incorporating OR Coated OR 'Coating'/exp OR Coating OR Finish OR Finished OR Finishing OR Doped) AND ('Self-Disinfecting' OR 'Antimicrobial'/exp OR Antimicrobial OR 'Antimicrobials'/exp OR Antimicrobials OR 'Microbicide'/exp OR Microbicide OR Microbicides OR 'Antibacterial'/exp OR Antibacterial OR Antibacterials OR 'Bactericide'/exp OR Bactericide OR Bactericides OR Sporicide OR Sporicides OR Sporicidal OR Sporocidals OR Antifungal OR Antifungals OR 'Antifungal'/exp OR Antifungal OR 'Antifungals'/exp OR Antifungals OR 'Fungicide'/exp OR Fungicide OR 'Fungicides'/exp OR Fungicides OR 'Antiviral'/exp OR Antiviral OR 'Antivirals'/exp OR Antivirals OR Viricide OR Viricides OR 'Biocide'/exp OR Biocide OR Biocides OR Inactivated OR Inactivating) AND ('Cross Infection'/exp OR 'Cross Infection' OR 'Cross Infections' OR 'Healthcare Associated Infection'/exp OR 'Healthcare Associated Infection' OR 'Healthcare Associated Infections' OR 'Healthcare Acquired Infection'/exp OR 'Healthcare Acquired Infection' OR 'Healthcare Acquired Infections' OR 'Nosocomial Infection'/exp OR 'Nosocomial Infection' OR 'Nosocomial Infections' OR 'Hospital Acquired Infection'/exp OR 'Hospital Acquired Infection' OR 'Hospital Acquired Infections' OR 'Hospital Infection'/exp OR 'Hospital Infection' OR 'Hospital Infections' OR 'HAI' OR 'HAIs' OR 'Contamination'/exp OR Contamination OR Contaminations OR 'Microbial Contamination'/exp OR 'Microbial Contamination' OR 'Microbial Contaminations' OR 'Microbial Load'/exp OR 'Microbial Load' OR 'Microbial Loads' OR 'Bacterial Contamination'/exp OR 'Bacterial Contamination' OR 'Bacterial Contaminations' OR 'Bacterial Load'/exp OR 'Bacterial Load' OR 'Bacterial Loads' OR 'Bacterial Count'/exp OR 'Bacterial Count' OR 'Bacterial Counts' OR 'Bioburden'/exp OR Bioburden)</p>		
CINAHL	<p>("Soft Surface" OR "Soft Surfaces" OR Woven OR Wovens OR Nonwoven OR Nonwovens OR Textile OR Textiles OR Fabric OR Fabrics OR "Cotton Fiber" OR "Cotton Fibers" OR "Cotton Fabric" OR "Cotton Fabrics" OR Cotton OR Cottons OR Polyester OR Polyesters OR Bedding OR Beddings OR Linen OR Linens OR Clothing OR Clothes OR Uniform OR Uniforms OR "Protective Clothing" OR "Protective Clothes" OR Scrub OR Scrubs OR Gown OR Gowns OR "White Coat" OR "White Coats" OR "Lab Coat" OR "Lab Coats" OR Curtain OR Curtains) AND ((Impregnated OR Impregnation OR Impregnating OR Incorporated OR Incorporation OR Incorporating OR Coated OR Coating OR Finish OR Finished OR Finishing OR Doped) OR ("Self-Disinfecting" OR Antimicrobial OR Antimicrobials OR Microbicide OR Microbicides OR Antibacterial OR Antibacterials OR Bactericide OR Bactericides OR Sporicide OR Sporicides OR Sporicidal OR Sporocidals OR Antifungal OR Antifungals OR Antifungal OR Antifungals OR Fungicide OR Fungicides OR Antiviral OR Antivirals OR Viricide OR Viricides OR Biocide OR Biocides OR Inactivated OR Inactivating)) AND ("Cross Infection" OR "Cross Infections" OR "Healthcare Associated Infection" OR "Healthcare Associated Infections" OR "Healthcare Acquired Infection" OR "Healthcare Acquired Infections" OR "Nosocomial Infection" OR "Nosocomial Infections" OR "Hospital Acquired Infection" OR "Hospital Acquired Infections" OR "Hospital Infection" OR "Hospital Infections" OR "HAI" OR "HAIs" OR Contamination OR Contaminations OR "Microbial Contamination" OR "Microbial</p>	Basic search	189

	Contaminations” OR “Microbial Load” OR “Microbial Loads” OR “Bacterial Contamination” OR “Bacterial Contaminations” OR “Bacterial Load” OR “Bacterial Loads” OR “Bacterial Count” OR “Bacterial Counts” OR Bioburden)		
Web of Science	(“Soft Surface” OR “Soft Surfaces” OR Woven OR Wovens OR Nonwoven OR Nonwovens OR Textile OR Textiles OR Fabric OR Fabrics OR “Cotton Fiber” OR “Cotton Fibers” OR “Cotton Fabric” OR “Cotton Fabrics” OR Cotton OR Cottons OR Polyester OR Polyesters OR Bedding OR Beddings OR Linen OR Linens OR Clothing OR Clothes OR Uniform OR Uniforms OR “Protective Clothing” OR “Protective Clothes” OR Scrub OR Scrubs OR Gown OR Gowns OR “White Coat” OR “White Coats” OR “Lab Coat” OR “Lab Coats” OR Curtain OR Curtains) AND (Impregnated OR Impregnation OR Impregnating OR Incorporated OR Incorporation OR Incorporating OR Coated OR Coating OR Finish OR Finished OR Finishing OR Doped) AND (“Self-Disinfecting” OR Antimicrobial OR Antimicrobials OR Microbicide OR Microbicides OR Antibacterial OR Antibacterials OR Bactericide OR Bactericides OR Sporicide OR Sporicides OR Sporidical OR Sporidicals OR Antifungal OR Antifungicals OR Antifungal OR Antifungals OR Fungicide OR Fungicides OR Antiviral OR Antivirals OR Viricide OR Viricides OR Biocide OR Biocides OR Inactivated OR Inactivating) AND (“Cross Infection” OR “Cross Infections” OR “Healthcare Associated Infection” OR “Healthcare Associated Infections” OR “Healthcare Acquired Infection” OR “Healthcare Acquired Infections” OR “Nosocomial Infection” OR “Nosocomial Infections” OR “Hospital Acquired Infection” OR “Hospital Acquired Infections” OR “Hospital Infection” OR “Hospital Infections” OR “HAI” OR “HAIs” OR Contamination OR Contaminations OR “Microbial Contamination” OR “Microbial Contaminations” OR “Microbial Load” OR “Microbial Loads” OR “Bacterial Contamination” OR “Bacterial Contaminations” OR “Bacterial Load” OR “Bacterial Loads” OR “Bacterial Count” OR “Bacterial Counts” OR Bioburden)	Topic (searches title, abstract, author keywords, and Keywords Plus)	259
Scopus	(“Soft Surface” OR “Soft Surfaces” OR Woven OR Wovens OR Nonwoven OR Nonwovens OR Textile OR Textiles OR Fabric OR Fabrics OR “Cotton Fiber” OR “Cotton Fibers” OR “Cotton Fabric” OR “Cotton Fabrics” OR Cotton OR Cottons OR Polyester OR Polyesters OR Bedding OR Beddings OR Linen OR Linens OR Clothing OR Clothes OR Uniform OR Uniforms OR “Protective Clothing” OR “Protective Clothes” OR Scrub OR Scrubs OR Gown OR Gowns OR “White Coat” OR “White Coats” OR “Lab Coat” OR “Lab Coats” OR Curtain OR Curtains) AND (Impregnated OR Impregnation OR Impregnating OR Incorporated OR Incorporation OR Incorporating OR Coated OR Coating OR Finish OR Finished OR Finishing OR Doped) AND (“Self-Disinfecting” OR Antimicrobial OR Antimicrobials OR Microbicide OR Microbicides OR Antibacterial OR Antibacterials OR Bactericide OR Bactericides OR Sporicide OR Sporicides OR Sporidical OR Sporidicals OR Antifungal OR Antifungicals OR Antifungal OR Antifungals OR Fungicide OR Fungicides OR Antiviral OR Antivirals OR Viricide OR Viricides OR Biocide OR Biocides OR Inactivated OR Inactivating) AND (“Cross Infection” OR “Cross Infections” OR “Healthcare Associated Infection” OR “Healthcare Associated Infections” OR “Healthcare Acquired Infection” OR “Healthcare Acquired Infections” OR “Nosocomial Infection” OR “Nosocomial Infections” OR “Hospital Acquired Infection” OR “Hospital Acquired Infections” OR “Hospital Infection” OR “Hospital Infections” OR “HAI” OR “HAIs” OR Contamination OR Contaminations OR “Microbial Contamination” OR “Microbial Contaminations” OR “Microbial Load” OR “Microbial Loads” OR “Bacterial Contamination” OR “Bacterial Contaminations” OR “Bacterial Load” OR “Bacterial Loads” OR “Bacterial Count” OR “Bacterial Counts” OR Bioburden)	Article title, abstract, keywords	362

medRxiv	(Textile* OR Fabric* OR Woven* OR Linen* OR Bedding* OR Cloth* OR Uniform* OR Scrub* OR Gown* OR Curtain*) AND Antimicrobial*	Simple search	49
Google Scholar	Curtain* AND (Antimicrobial OR Antibacterial) AND (Contamination OR Infection)	Not applicable	---
	(Staff* OR Professional* OR Personnel OR Worker*) AND (Uniform* OR Cloth* OR Scrub* OR Gown*) AND (Impregnat*) AND (Antimicrobial OR Antibacterial)	Not applicable	---
	(Linen* OR Bedding* OR Cloth*) AND (Antimicrobial OR Antibacterial) AND (Contamination OR Infection)	Not applicable	---
	(Textile* OR Fabric* OR Woven* OR “Soft Surface”) AND (Antimicrobial OR Antibacterial) AND (Contamination OR Infection)	Not applicable	---

SM2: Chart 2 - Reports excluded (by full-text reading) and their respective reasons for exclusion.

Identification	Reasons for exclusion
Ellingson et al., 2020	Reason 3
Elliott et al., 2019	Reason 1
Al-Tawfiq et al., 2019	Reason 2
Farid, 2019	Reason 1
Wilson, 2019	Reason 1
Madden, Heon, Sifri, 2018	Reason 1
Burke, Butler, 2018	Reason 5
Lautenbach et al., 2018	Reason 1
Rozman et al., 2017	Reason 1
Van Trang et al., 2017	Reason 1
Penes et al., 2017	Reason 3
Farid, Yeung, 2017	Reason 1
Anderson et al., 2016	Reason 1
Sifri, Enfield, Burke, 2016	Reason 1
Sifri, Burke, Enfield, 2016	Reason 5
Sridhar et al., 2016a	Reason 1
Sridhar et al., 2016b	Reason 1
Perelshtein, Perkas, Gedanken, 2016	Reason 1
Perelshtein et al., 2015	Reason 4
Perez et al., 2015	Reason 5
Tamimi, Carlino, Gerba, 2014	Reason 5

Boutin et al., 2013	Reason 1
Niiyama et al., 2013	Reason 7
Johnston, 2012	Reason 1
Schweizer et al., 2012	Reason 2
Di Nauta et al., 2011	Reason 1
Phillips, Taylor, Hastings, 2009	Reason 5
Taylor, Phillips, Hastings, 2009	Reason 5
Yoshino et al., 1998	Reason 2
Ayliffe, Beard, Filbey, 1962	Reason 5
Barnard, 1952	Reason 6

Caption: Reason 1: Material on the theme published, such as editorial, letter to the editor, book, book chapter, thesis, dissertation or abstract presented in a scientific event; Reason 2: The study does not specify the antimicrobial substance impregnated in the textiles; Reason 3: The study does not specify applicability of the antimicrobial textiles in the health service; Reason 4: The study does not assess microbial load in the antimicrobial textiles and/or the HAI rates by means of a theoretical framework or indicators; Reason 5: In addition to the intervention of interest (antimicrobial textiles), the study addresses concomitant use of other antimicrobial surfaces in the health service; Reason 6: The study does not present sufficient information/data for characterization and analysis of methodological quality/risk of bias; and Reason 7: The study investigates a given non-textile antimicrobial material fixed to conventional textiles (non-antimicrobial).

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