Supplementary materials
Table 1. Search strategy in PubMed and final search strings for each database.

Search strategy used in PubMed.

ID	Query	Search details	Result
#1	Burn Unit	"burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""unit""[All Fields]) OR ""burn unit""[All Fields]"	**11,042**
#2	Burn Centers	burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""centers""[All Fields]) OR ""burn centers""[All Fields]"	**6,701**
#3	Burn Center	"burn centre""[All Fields] OR ""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""center""[All Fields]) OR ""burn center""[All Fields]"	**21,611**
#4	Major Burns	(""major""[All Fields] OR ""majored""[All Fields] OR ""majoring""[All Fields] OR ""majorities""[All Fields] OR ""majority""[All Fields] OR ""majors""[All Fields]) AND (""burning""[All Fields] OR ""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burned""[All Fields] OR ""burnings""[All Fields])"	**14,400**
#5	Critical burn patient	(""critical""[All Fields] OR ""critically""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])"	**7,761**
#6	Severe burn patients	"(""sever""[All Fields] OR ""severe""[All Fields] OR ""severed""[All Fields] OR ""severely""[All Fields] OR ""severer""[All Fields] OR ""severes""[All Fields] OR ""severing""[All Fields] OR ""severities""[All Fields] OR ""severity""[All Fields] OR ""severs""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])"	**14,753**
#7	post-burn	post-burn""[All Fields]"	**1,985**
#8	Burn Injury-Related	"(""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND ""Injury-Related""[All Fields]"	**223,06**
#9	(((((((Burn Unit) OR (Burn Centers)) OR (Burn Center)) OR (Major Burns)) OR (critical burn patient)) OR (severe burn patients)) OR (post-burn)) OR (Burn Injury-Related)	"burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""unit""[All Fields]) OR ""burn unit""[All Fields] OR (""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""centers""[All Fields]) OR ""burn centers""[All Fields]) OR (""burn centre""[All Fields] OR ""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""center""[All Fields]) OR ""burn center""[All Fields]) OR ((""major""[All Fields] OR ""majored""[All Fields] OR ""majoring""[All Fields] OR ""majorities""[All Fields] OR ""majority""[All Fields] OR ""majors""[All Fields]) AND (""burning""[All Fields] OR ""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burned""[All Fields] OR ""burnings""[All Fields])) OR ((""critical""[All Fields] OR ""critically""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ((""sever""[All Fields] OR ""severe""[All Fields] OR ""severed""[All Fields] OR ""severely""[All Fields] OR ""severer""[All Fields] OR ""severes""[All Fields] OR ""severing""[All Fields] OR ""severities""[All Fields] OR ""severity""[All Fields] OR ""severs""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ""post-burn""[All Fields] OR ((""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND ""Injury-Related""[All Fields])"	**49,958**
#10	High-Flow Nasal Oxygen,	"High-Flow""[All Fields] AND (""nasalance""[All Fields] OR ""nasality""[All Fields] OR ""nasalization""[All Fields] OR ""nasalized""[All Fields] OR ""nasally""[All Fields] OR ""nose""[MeSH Terms] OR ""nose""[All Fields] OR ""nasal""[All Fields] OR ""nasals""[All Fields]) AND (""cell respiration""[MeSH Terms] OR (""cell""[All Fields] AND ""respiration""[All Fields]) OR ""cell respiration""[All Fields] OR ""oxygenation""[All Fields] OR ""oxygen""[MeSH Terms] OR ""oxygen""[All Fields] OR	**3,237**

		""oxygen s""[All Fields] OR ""oxygenate""[All Fields] OR ""oxygenated""[All Fields] OR ""oxygenates""[All Fields] OR ""oxygenating""[All Fields] OR ""oxygenations""[All Fields] OR ""oxygenative""[All Fields] OR ""oxygenator s""[All Fields] OR ""oxygenators""[MeSH Terms] OR ""oxygenators""[All Fields] OR ""oxygenator""[All Fields] OR ""oxygene""[All Fields] OR ""oxygenic""[All Fields] OR ""oxygenous""[All Fields] OR ""oxygens""[All Fields])"	
#11	High flow nasal cannula	high""[All Fields] AND (""flow camb""[Journal] OR ""flow""[All Fields]) AND (""cannula""[MeSH Terms] OR ""cannula""[All Fields] OR (""nasal""[All Fields] AND ""cannula""[All Fields]) OR ""nasal cannula""[All Fields])"	**3,587**
#12	HFNC	"HFNC""[All Fields]"	**1,568**
#13	oxygen therapy	"oxygen inhalation therapy""[MeSH Terms] OR (""oxygen""[All Fields] AND ""inhalation""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen inhalation therapy""[All Fields] OR (""oxygen""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen therapy""[All Fields]"	**161,252**
#14	(((High-Flow Nasal Oxygen) OR (high flow nasal cannula)) OR (HFNC)) OR (oxygen therapy)	(""High-Flow""[All Fields] AND (""nasalance""[All Fields] OR ""nasality""[All Fields] OR ""nasalization""[All Fields] OR ""nasalized""[All Fields] OR ""nasally""[All Fields] OR ""nose""[MeSH Terms] OR ""nose""[All Fields] OR ""nasal""[All Fields] OR ""nasals""[All Fields]) AND (""cell respiration""[MeSH Terms] OR (""cell""[All Fields] AND ""respiration""[All Fields]) OR ""cell respiration""[All Fields] OR ""oxygenation""[All Fields] OR ""oxygen""[MeSH Terms] OR ""oxygen""[All Fields] OR ""oxygen s""[All Fields] OR ""oxygenate""[All Fields] OR ""oxygenated""[All Fields] OR ""oxygenates""[All Fields] OR ""oxygenating""[All Fields] OR ""oxygenations""[All Fields] OR ""oxygenative""[All Fields] OR ""oxygenator s""[All Fields] OR ""oxygenators""[MeSH Terms] OR ""oxygenators""[All Fields] OR ""oxygenator""[All Fields] OR ""oxygene""[All Fields] OR ""oxygenic""[All Fields] OR ""oxygenous""[All Fields] OR ""oxygens""[All Fields])) OR (""high""[All Fields] AND (""flow camb""[Journal] OR ""flow""[All Fields]) AND (""cannula""[MeSH Terms] OR ""cannula""[All Fields] OR (""nasal""[All Fields] AND ""cannula""[All Fields]) OR ""nasal cannula""[All Fields])) OR ""HFNC""[All Fields] OR (""oxygen inhalation therapy""[MeSH Terms] OR (""oxygen""[All Fields] AND ""inhalation""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen inhalation therapy""[All Fields] OR (""oxygen""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen therapy""[All Fields])"	**163,178**
#15	(((((((((Burn Unit) OR (Burn Centers)) OR (Burn Center)) OR (Major Burns)) OR (critical burn patient)) OR (severe burn patients)) OR (post-burn)) OR (Burn Injury-Related)) AND ((((High-Flow Nasal Oxygen) OR (high flow nasal cannula)) OR (HFNC)) OR (oxygen therapy))	,"(""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""unit""[All Fields]) OR ""burn unit""[All Fields] OR (""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""centers""[All Fields]) OR ""burn centers""[All Fields]) OR (""burn centre""[All Fields] OR ""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""center""[All Fields]) OR ""burn center""[All Fields]) OR ((""major""[All Fields] OR ""majored""[All Fields] OR ""majoring""[All Fields] OR ""majorities""[All Fields] OR ""majority""[All Fields] OR ""majors""[All Fields]) AND (""burning""[All Fields] OR ""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burned""[All Fields] OR ""burnings""[All Fields])) OR ((""critical""[All Fields] OR ""critically""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ((""sever""[All Fields] OR ""severe""[All Fields] OR ""severed""[All Fields] OR ""severely""[All Fields] OR ""severer""[All Fields] OR ""severes""[All Fields] OR ""severing""[All Fields] OR ""severities""[All Fields] OR ""severity""[All Fields] OR ""severs""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ""post-burn""[All Fields] OR ((""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND ""Injury-Related""[All Fields])) AND ((""High-Flow""[All Fields] AND (""nasalance""[All Fields] OR ""nasality""[All Fields] OR ""nasalization""[All Fields] OR ""nasalized""[All Fields] OR ""nasally""[All Fields] OR ""nose""[MeSH Terms] OR ""nose""[All Fields] OR ""nasal""[All Fields] OR ""nasals""[All Fields]) AND (""cell respiration""[MeSH Terms] OR (""cell""[All Fields] AND ""respiration""[All Fields]) OR ""cell respiration""[All Fields] OR ""oxygenation""[All Fields] OR ""oxygen""[MeSH Terms] OR ""oxygen""[All Fields] OR ""oxygen s""[All Fields] OR ""oxygenate""[All Fields] OR ""oxygenated""[All Fields] OR ""oxygenates""[All Fields] OR ""oxygenating""[All Fields] OR ""oxygenations""[All Fields] OR ""oxygenative""[All Fields] OR ""oxygenator s""[All Fields] OR	**792**

		""oxygenators""[MeSH Terms] OR ""oxygenators""[All Fields] OR ""oxygenator""[All Fields] OR ""oxygene""[All Fields] OR ""oxygenic""[All Fields] OR ""oxygenous""[All Fields] OR ""oxygens""[All Fields]) OR (""high""[All Fields] AND (""flow camb""[Journal] OR ""flow""[All Fields]) AND (""cannula""[MeSH Terms] OR ""cannula""[All Fields] OR (""nasal""[All Fields] AND ""cannula""[All Fields]) OR ""nasal cannula""[All Fields]) OR ""HFNC""[All Fields] OR (""oxygen inhalation therapy""[MeSH Terms] OR (""oxygen""[All Fields] AND ""inhalation""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen inhalation therapy""[All Fields] OR (""oxygen""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen therapy""[All Fields]))",	
#16	inhalation injury	"(""administration, inhalation""[MeSH Terms] OR (""administration""[All Fields] AND ""inhalation""[All Fields]) OR ""inhalation administration""[All Fields] OR ""inhalant""[All Fields] OR ""inhalability""[All Fields] OR ""inhalable""[All Fields] OR ""inhalants""[All Fields] OR ""inhalated""[All Fields] OR ""inhalation""[MeSH Terms] OR ""inhalation""[All Fields] OR ""inhal""[All Fields] OR ""inhalations""[All Fields] OR ""inhale""[All Fields] OR ""inhaled""[All Fields] OR ""inhaling""[All Fields] OR ""inhalational""[All Fields] OR ""inhalative""[All Fields] OR ""inhalatively""[All Fields] OR ""inhalent""[All Fields] OR ""inhaler s""[All Fields] OR ""inhales""[All Fields] OR ""nebulizers and vaporizers""[MeSH Terms] OR (""nebulizers""[All Fields] AND ""vaporizers""[All Fields]) OR ""nebulizers and vaporizers""[All Fields] OR ""inhalator""[All Fields] OR ""inhalators""[All Fields] OR ""inhaler""[All Fields] OR ""inhalers""[All Fields]) AND (""injurie""[All Fields] OR ""injuried""[All Fields] OR ""injuries""[MeSH Subheading] OR ""injuries""[All Fields] OR ""wounds and injuries""[MeSH Terms] OR (""wounds""[All Fields] AND ""injuries""[All Fields]) OR ""wounds and injuries""[All Fields] OR ""injurious""[All Fields] OR ""injury s""[All Fields] OR ""injuryed""[All Fields] OR ""injurys""[All Fields] OR ""injury""[All Fields])"	**17,031**
#17	(((((((((Burn Unit) OR (Burn Centers)) OR (Burn Center)) OR (Major Burns)) OR (critical burn patient)) OR (severe burn patients)) OR (post-burn)) OR (Burn Injury-Related)) AND ((((High-Flow Nasal Oxygen) OR (high flow nasal cannula)) OR (HFNC)) OR (oxygen therapy))) AND (inhalation injury)	,(""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""unit""[All Fields]) OR ""burn unit""[All Fields] OR (""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""centers""[All Fields]) OR ""burn centers""[All Fields]) OR (""burn centre""[All Fields] OR ""burn units""[MeSH Terms] OR (""burn""[All Fields] AND ""units""[All Fields]) OR ""burn units""[All Fields] OR (""burn""[All Fields] AND ""center""[All Fields]) OR ""burn center""[All Fields]) OR ((""major""[All Fields] OR ""majored""[All Fields] OR ""majoring""[All Fields] OR ""majorities""[All Fields] OR ""majority""[All Fields] OR ""majors""[All Fields]) AND (""burning""[All Fields] OR ""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burned""[All Fields] OR ""burnings""[All Fields])) OR ((""critical""[All Fields] OR ""critically""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ((""sever""[All Fields] OR ""severe""[All Fields] OR ""severed""[All Fields] OR ""severely""[All Fields] OR ""severer""[All Fields] OR ""severes""[All Fields] OR ""severing""[All Fields] OR ""severities""[All Fields] OR ""severity""[All Fields] OR ""severs""[All Fields]) AND (""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND (""patient s""[All Fields] OR ""patients""[MeSH Terms] OR ""patients""[All Fields] OR ""patient""[All Fields] OR ""patients s""[All Fields])) OR ""post-burn""[All Fields] OR ((""burns""[MeSH Terms] OR ""burns""[All Fields] OR ""burn""[All Fields]) AND ""Injury-Related""[All Fields])) AND ((""High-Flow""[All Fields] AND (""nasalance""[All Fields] OR ""nasality""[All Fields] OR ""nasalization""[All Fields] OR ""nasalized""[All Fields] OR ""nasally""[All Fields] OR ""nose""[MeSH Terms] OR ""nose""[All Fields] OR ""nasal""[All Fields] OR ""nasals""[All Fields]) AND (""cell respiration""[MeSH Terms] OR (""cell""[All Fields] AND ""respiration""[All Fields]) OR ""cell respiration""[All Fields] OR ""oxygenation""[All Fields] OR ""oxygen""[MeSH Terms] OR ""oxygen""[All Fields] OR ""oxygen s""[All Fields] OR ""oxygenate""[All Fields] OR ""oxygenated""[All Fields] OR ""oxygenates""[All Fields] OR ""oxygenating""[All Fields] OR ""oxygenations""[All Fields] OR ""oxygenative""[All Fields] OR ""oxygenator s""[All Fields] OR ""oxygenators""[MeSH Terms] OR ""oxygenators""[All Fields] OR ""oxygenator""[All Fields] OR ""oxygene""[All Fields] OR ""oxygenic""[All Fields] OR ""oxygenous""[All Fields] OR ""oxygens""[All Fields])) OR (""high""[All Fields] AND (""flow camb""[Journal] OR ""flow""[All Fields]) AND (""cannula""[MeSH Terms] OR ""cannula""[All Fields] OR (""nasal""[All Fields] AND ""cannula""[All Fields]) OR ""nasal cannula""[All Fields]) OR ""HFNC""[All Fields] OR (""oxygen inhalation therapy""[MeSH Terms] OR (""oxygen""[All Fields] AND ""inhalation""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen inhalation therapy""[All Fields] OR (""oxygen""[All Fields] AND ""therapy""[All Fields]) OR ""oxygen therapy""[All Fields]))	**178**

| | | AND ((""administration, inhalation""[MeSH Terms] OR (""administration""[All Fields] AND ""inhalation""[All Fields]) OR ""inhalation administration""[All Fields] OR ""inhalant""[All Fields] OR ""inhalability""[All Fields] OR ""inhalable""[All Fields] OR ""inhalants""[All Fields] OR ""inhalated""[All Fields] OR ""inhalation""[MeSH Terms] OR ""inhalation""[All Fields] OR ""inhal""[All Fields] OR ""inhalations""[All Fields] OR ""inhale""[All Fields] OR ""inhaled""[All Fields] OR ""inhaling""[All Fields] OR ""inhalational""[All Fields] OR ""inhalative""[All Fields] OR ""inhalatively""[All Fields] OR ""inhalent""[All Fields] OR ""inhaler s""[All Fields] OR ""inhales""[All Fields] OR ""nebulizers and vaporizers""[MeSH Terms] OR (""nebulizers""[All Fields] AND ""vaporizers""[All Fields]) OR ""nebulizers and vaporizers""[All Fields] OR ""inhalator""[All Fields] OR ""inhalators""[All Fields] OR ""inhaler""[All Fields] OR ""inhalers""[All Fields]) AND (""injurie""[All Fields] OR ""injuried""[All Fields] OR ""injuries""[MeSH Subheading] OR ""injuries""[All Fields] OR ""wounds and injuries""[MeSH Terms] OR (""wounds""[All Fields] AND ""injuries""[All Fields]) OR ""wounds and injuries""[All Fields] OR ""injurious""[All Fields] OR ""injury s""[All Fields] OR ""injuryed""[All Fields] OR ""injurys""[All Fields] OR ""injury""[All Fields]))" | |

Final search strings for each database

Database	Search string	Result
PubMed	(((((((((Burn Unit) OR (Burn Centers)) OR (Burn Center)) OR (Major Burns)) OR (critical burn patient)) OR (severe burn patients)) OR (post-burn)) OR (Burn Injury-Related)) AND ((((High-Flow Nasal Oxygen) OR (high flow nasal cannula)) OR (HFNC)) OR (oxygen therapy))) AND (inhalation injury)	178
Scopus	critical burn patient or burn center and High-Flow Nasal Oxygen or high flow nasal cannula and inhalation injury	212
CINAHL	critical burn patient or burn center and High-Flow Nasal Oxygen or high flow nasal cannula and inhalation injury and oxygen	248
Web of Science	severe burn patients and High-Flow Nasal Oxygen or hfnc or oxygen and inhalation injury	158
Total		**796**