**FA 7030 Search Strategies**

**PUBMED**

(“respiration disorders”[mesh:noexp] OR dyspnea[mesh] OR “altitude sickness”[mesh] OR apnea[mesh] OR “respiratory distress syndrome”[mesh] OR “respiratory insufficiency”[mesh] OR hypoxia[mesh] OR cyanosis[mesh] OR hypercapnia[mesh] OR hypoventilation[mesh] OR asthma[mesh] OR “pulmonary disease, chronic obstructive”[mesh] OR emphysema[mesh] OR drowning[mesh] OR “near drowning”[mesh] OR “carbon monoxide poisoning”[mesh] OR “decompression sickness”[mesh] OR diving/ae[mesh] OR diving/in[mesh] OR “organophosphate poisoning”[mesh] OR dyspnea[tiab] OR dyspnoea[tiab] OR apnea[tiab] OR apnoea[tiab] OR cyanos\*[tiab] OR hypoxi\*[tiab] OR “near drowning” [tiab] OR “shortness of breath” [tiab] OR breathless\*[tiab] OR “difficulty breathing” [tiab] OR wheez\*[tiab] OR anoxi\*[tiab] OR “inflight emergenc\*”[tiab] OR “in-flight emergenc\*”[tiab] or “in flight emergenc\*”[tiab] OR “compressed air diving”[tiab] OR “oxygen insufficiency”[tiab]) AND (“oxygen inhalation therapy”[mesh] OR “hyperbaric oxygenation”[mesh] OR oxygen/ad[mesh] OR oxygen/tu[mesh] OR oxygen[tiab] OR “emergency oxygen”[tiab]) AND (“first aid”[mesh] OR “emergency treatment”[mesh:noexp] OR emergencies[mesh] OR ”emergency care”[tiab] OR “wilderness medicine”[mesh] OR “life support care”[mesh] OR “St John\*”[tiab] OR “Red Cross”[mesh] OR “Red Cross”[tiab] OR “Royal Life Saving”[tiab] OR “Surf Life Sav\*”[tiab] OR sport\*[tiab] OR lifeguard\*[tiab] OR lifesav\*[tiab] OR “first respon\*”[tiab] OR “life sav\*”[tiab] OR “life support\*”[tiab] OR “wilderness medicine”[tiab] OR prehospital[tiab] OR pre-hospital[tiab] OR “out-of-hospital”[tiab] OR “out of hospital”[tiab]) NOT (ECMO [tiab] or extracorporeal oxygenation [mesh]) NOT (animals[mesh] NOT humans[mesh])

**EMBASE**

("breathing disorder"/ OR dyspnea/ OR "altitude disease"/ OR apnea/ OR "respiratory distress syndrome"/ OR "respiratory failure"/ OR hypoxia/ OR cyanosis/ OR hypercapnia/ OR hypoventilation/ OR asthma/ OR "chronic obstructive lung disease"/ OR emphysema/ OR drowning/ OR "near drowning"/ OR "carbon monoxide intoxication"/ OR "decompression sickness"/ OR "organophosphate poisoning"/ OR dyspnea.tw. OR dyspnoea.tw. OR apnea.tw. OR apnoea.tw. OR cyanos\*.tw. OR hypoxi\*.tw. OR "near drowning".tw. OR "shortness of breath".tw. OR breathless\*.tw. OR "difficulty breathing".tw. OR wheez\*.tw. OR anoxi\*.tw. OR "inflight emergenc\*".tw. OR "in-flight emergenc\*".tw. OR "in flight emergenc\*".tw. OR "compressed air diving".tw. OR "oxygen insufficiency".tw.) AND (exp "oxygen therapy"/ OR "hyperbaric oxygen therapy"/ OR oxygen.tw. OR "emergency oxygen".tw.) AND ("first aid"/ OR "emergency treatment"/ OR emergency/ OR "emergency care".tw. OR  "wilderness medicine"/ OR "St John\*".tw. OR "Red Cross"/ OR "Red Cross".tw. OR "Royal Life Saving".tw. OR "Surf Life Sav\*".tw. OR sport\*.tw. OR lifeguard\*.tw. OR lifesav\*.tw. OR "first respon\*".tw. OR "life sav\*".tw. OR "life support\*".tw. OR "wilderness medicine".tw. OR prehospital.tw. OR pre-hospital.tw. OR out-of-hospital.tw. OR "out of hospital".tw.) NOT (ECMO.tw OR exp extracorporeal oxygenation/) NOT (exp animals/ NOT exp humans/)

**CINAHL**

((MH "respiration disorders") OR (MH dyspnea+) OR (MH "altitude sickness"+) OR (MH apnea+) OR (MH "respiratory distress syndrome"+) OR (MH "respiratory insufficiency"+) OR (MH hypoxia+) OR (MH cyanosis+) OR (MH hypercapnia+) OR (MH hypoventilation+) OR (MH asthma+) OR (MH "pulmonary disease, chronic obstructive"+) OR (MH emphysema+) OR (MH drowning+) OR (MH "near drowning"+) OR (MH "carbon monoxide poisoning"+) OR (MH "decompression sickness"+) OR (MH diving+) OR (MH "organophosphate poisoning"+) OR (TI dyspnea OR AB dyspnea) OR (TI dyspnoea OR AB dyspnoea) OR (TI apnea OR AB apnea) OR (TI apnoea OR AB apnoea) OR (TI cyanos\* OR AB cyanos\*) OR (TI hypoxi\* OR AB hypoxi\*) OR (TI "near drowning" OR AB "near drowning") OR (TI "shortness of breath" OR AB "shortness of breath") OR (TI breathless\* OR AB breathless\*) OR (TI "difficulty breathing" OR AB "difficulty breathing") OR (TI wheez\* OR AB wheez\*) OR (TI anoxi\* OR AB anoxi\*) OR (TI "inflight emergenc\*" OR AB "inflight emergenc\*") OR (TI "in-flight emergenc\*" OR AB "in-flight emergenc\*") OR (TI "in flight emergenc\*" OR AB "in flight emergenc\*") OR (TI "compressed air diving" OR AB "compressed air diving") OR (TI "oxygen insufficiency" OR AB "oxygen insufficiency")) AND ((MH "oxygen inhalation therapy"+) OR (MH "hyperbaric oxygenation"+) OR (MH oxygen+) OR (TI oxygen OR AB oxygen) OR (TI "emergency oxygen" OR AB "emergency oxygen")) AND ((MH "first aid"+) OR (MH "emergency treatment") OR (MH emergencies+) OR (TI "emergency care" OR AB "emergency care") OR (MH "wilderness medicine"+) OR (MH "life support care"+) OR (TI "St John\*" OR AB "St John\*") OR (MH "Red Cross"+) OR (TI "Red Cross" OR AB "Red Cross") OR (TI "Royal Life Saving" OR AB "Royal Life Saving") OR (TI "Surf Life Sav\*" OR AB "Surf life Sav\*") OR (TI sport\* OR AB sport\*) OR (TI lifeguard\* OR AB lifeguard\*) OR (TI lifesav\* OR AB lifesav\*) OR (TI "first respon\*" OR AB "first respon\*") OR (TI "life sav\*" OR AB "life sav\*") OR (TI "life support\*" OR AB "life support\*") OR (TI "wilderness medicine" OR AB "wilderness medicine") OR (TI prehospital OR AB prehospital) OR (TI pre-hospital OR AB pre-hospital) OR (TI out-of-hospital OR AB out-of-hospital) OR (TI "out of hospital" OR AB "out of hospital")) NOT (TI ECMO or AB ECMO) NOT (MH “Extracorporeal Membrane Oxygenation”) NOT ((MH animals+) NOT (MH humans+))

**COCHRANE LIBRARY**

12 results Reviews (publication date range 2000-2023, English language) run 27.7.2022

203 results Trials (publication date range 2000-2023, English language) run 27.7.2022

([mh ^"respiration disorders"] OR [mh dyspnea] OR [mh "altitude sickness"] OR [mh apnea] OR [mh "respiratory distress syndrome"] OR [mh "respiratory insufficiency"] OR [mh hypoxia] OR [mh cyanosis] OR [mh hypercapnia] OR [mh hypoventilation] OR [mh asthma] OR [mh "pulmonary disease, chronic obstructive"] OR [mh emphysema] OR [mh drowning] OR [mh "near drowning"] OR [mh "carbon monoxide poisoning"] OR [mh "decompression sickness"] OR [mh diving] OR [mh "organophosphate poisoning"] OR dyspnea:ti,ab OR dyspnoea:ti,ab OR apnea:ti,ab OR apnoea:ti,ab OR cyanos\*:ti,ab OR hypoxi\*:ti,ab OR "near drowning":ti,ab OR "shortness of breath":ti,ab OR breathless\*:ti,ab OR "difficulty breathing":ti,ab OR wheez\*:ti,ab OR anoxi\*:ti,ab OR ("inflight" NEXT emergenc\*):ti,ab OR ("in-flight" NEXT emergenc\*):ti,ab OR ("in flight" NEXT emergenc\*):ti,ab OR "compressed air diving":ti,ab OR "oxygen insufficiency":ti,ab) AND ([mh "oxygen inhalation therapy"] OR [mh "hyperbaric oxygenation"] OR [mh oxygen] OR oxygen:ti,ab OR "emergency oxygen":ti,ab) AND ([mh "first aid"] OR [mh ^"emergency treatment"] OR [mh emergencies] OR "emergency care":ti,ab OR [mh "wilderness medicine"] OR [mh "life support care"] OR ("St" NEXT John\*):ti,ab OR [mh "Red Cross"] OR "Red Cross":ti,ab OR ("Royal Life" NEXT Saving):ti,ab OR ("Surf life" NEXT Sav\*):ti,ab OR sport\*:ti,ab OR lifeguard\*:ti,ab OR lifesav\*:ti,ab OR (first NEXT respon\*):ti,ab OR ("life" NEXT sav\*):ti,ab OR ("life" NEXT support\*):ti,ab OR "wilderness medicine":ti,ab OR prehospital:ti,ab OR pre-hospital:ti,ab OR out-of-hospital:ti,ab OR "out of hospital":ti,ab) NOT (ECMO:ti,ab OR [mh "extracorporeal oxygenation"]) NOT ([mh animals] NOT [mh humans])

**PROSPERO and GOOGLE SCHOLAR**

Keyword searches using combinations of

* First aid and synonyms
* Oxygen administration and synonyms

**Inclusion and Exclusion criteria**

**Inclusion criteria**

Administration of oxygen by first aid provider

**Exclusion criteria**

Stroke, ACS/chest pain, drowning, post ROSC, compressed gas in diving (eg: SCUBA), carbon monoxide poisoning, In hospital treatment, ECMO, medical officer intervention, report of same trial as another included paper, educational (not research), comment on research (not original research), audit, hypoxic training