

Guidelines Update to Laparoscopy in the Era of COVID-19 Literature

Appendix A - Search Strategies

Summary - Run Date: January 12, 2023
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OVERALL SEARCH RESULTS	Total records identified by database searches	1,438
	Records located by handsearching trials, databases, and references	54
	Total trials identified in searches	50
	Total duplicates identified (across KQs, by HAB, in Endnote, in Covidence)	539
	Total unique records screened (across KQs)	903

Databases searched (Coverage)

Medicine Embase/Elsevier (1947-Present) PubMed/NLM (1809/1966-Present)	Clinical Trials Clinicaltrials.gov/NLM (2000-Present) ICTRP (International Clinical Trials Registry Platform)/WHO (1997-Present)	Systematic Reviews Cochrane Library*/ Cochrane (2009-Present)
Databases handsearched for articles published by the trials retrieved by Clinicaltrials.gov, ICTRP and Cochrane: ICTRP, Clinicaltrials.gov, PubMed, and Google Scholar		
*For Cochrane searches: Replace [MH xxxxx] with the appropriate MeSH search term		

1. Is nonoperative management superior to operative management in patients with disease processes amenable to either approach and active COVID infection?

Database	Final search strategies	Results
PubMed Q1	((Appendicitis[mh] OR appendicitis[tiab] OR Cholecystitis[mh] OR (Gallbladder[tiab] AND (Inflammation[tiab] OR Empyema [tiab])) OR Cholecystitis[tiab] AND (covid[tiab] OR "covid 19"[mh] OR "covid 19 vaccines"[mh] OR "covid-19 serotherapy"[mh] OR "covid 19 testing"[mh] OR "sars cov 2"[tiab] OR "SARS-CoV-2"[tiab] OR "ncov"[tiab] OR coronavirus[mh] OR coronavirus[tiab] OR Coronaviridae[mh] OR Coronaviridae[tiab]) AND ("Clinical Study"[pt] OR "Comparative Study"[pt] OR "Epidemiologic studies" [mh] OR "Evaluation Study"[pt] OR "Meta-Analysis"[pt] OR "Multicenter Study"[pt] OR "Systematic Review"[pt] OR "Validation Study" [pt] OR randomized[tiab] OR analysis[tiab] OR study[tiab] OR studies [tiab] OR "Practice Guideline"[pt] OR "practice guidelines as topic"[mh] OR guideline[tiab] OR guidelines[tiab])) NOT (Case reports[pt] OR "case report"[tw] OR letter[pt] OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR mouse[tiab] OR mice[tiab] OR porcine[tiab] OR rabbits[tiab])	325
Embase Q1	((('Appendicitis'/exp OR appendicitis OR 'Cholecystitis'/exp OR (('gallbladder'/exp OR gallbladder) AND (('empyema'/exp OR empyema) OR ('inflammation'/exp OR inflammation))) OR Cholecystitis) AND ('coronavirus disease 2019'/exp OR 'coronavirus disease 2019' OR 'sars-cov-2 vaccine'/exp OR 'sars-cov-2 vaccine' OR 'coronaviridae infection'/exp OR 'coronaviridae infection' OR 'coronavirinae'/exp OR coronavirinae OR covid:kw,ab,ti) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim) NOT ([animals]/lim OR [conference abstract]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study')	463
Cochrane Q1	([MH Appendicitis] OR [MH Cholecystitis] OR (Cholecystitis):ti,ab,kw OR ((Gallbladder*):ti,ab,kw AND ((Inflammation):ti,ab,kw OR (Empyema):ti,ab,kw)) OR (Cholecystitis):ti,ab,kw) AND ((SARS-CoV-2):ti,ab,kw OR (covid):ti,ab,kw OR (2019 ncov):ti,ab,kw OR (coronavirus):ti,ab,kw)	14

Clinical Trials Q1	Covid-19 Appendicitis OR Cholecystitis OR (Gallbladder Empyema)	16
ICTRP Q1	(Appendicitis OR Cholecystitis OR (Gallbladder Empyema)) AND covid19	7
KQ1 SEARCH RESULTS	Total records identified by database searches	825
	Additional records located by handsearching	18
	Total trials identified in searches	28
	Total duplicates found	311
	Total records available for screening	504

2. Is a longer delay of elective operations superior to a shorter delay of elective operations in patients with recent COVID infection?

Database	Final search strategies	Results
PubMed Q2	(("Elective Surgical Procedures"[mh] OR ((surgery[sh] OR surgery[tiab] OR surgeries[tiab] OR surgerys[tiab] OR "surgical procedures, operative"[mh] OR surgical[tiab] OR surgically[tiab]) AND (elective[tiab] OR electively[tiab] OR elect[tiab] OR elected[tiab] OR electing[tiab] OR elects[tiab]))) AND (delay[tiab] OR delayed[tiab] OR delaying[tiab] OR delays[tiab] OR "Time-to-Treatment"[mh] OR "delayed diagnosis"[mh] OR "time interval"[tiab] OR "time intervals"[tiab] OR "timely care"[tiab] OR "timely treatment"[tiab] OR timeliness[tiab] OR "Time Factors"[mh]) AND (covid[tiab] OR "covid 19"[mh] OR "covid 19 vaccines"[mh] OR "covid-19 serotherapy"[mh] OR "covid 19 testing"[mh] OR "sars cov 2"[tiab] OR "SARS-CoV-2"[tiab] OR "ncov"[tiab] OR coronavirus[mh] OR coronavirus[tiab] OR Coronaviridae[mh] OR Coronaviridae[tiab]) AND ("Clinical Study"[pt] OR "Comparative Study"[pt] OR "Epidemiologic studies" [mh] OR "Evaluation Study"[pt] OR "Meta-Analysis"[pt] OR "Multicenter Study"[pt] OR "Systematic Review"[pt] OR "Validation Study"[pt] OR randomized[tiab] OR analysis[tiab] OR study[tiab] OR studies [tiab] OR "Practice Guideline"[pt] OR "practice guidelines as topic"[mh] OR guideline[title] OR guidelines[title])) NOT (Case reports[pt] OR "case report"[tw] OR letter[pt] OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR mouse[tiab] OR mice[tiab] OR porcine[tiab] OR rabbits[tiab] OR Eye Diseases[mh] OR (1905 : 2009[PDAT]) OR "president-elect"[tiab])	318
Embase Q2	(('elective surgery'/exp OR (('surgery'/exp OR surgery OR 'surgical':kw,ab,ti OR 'surgically':kw,ab,ti OR 'surgery':kw,ab,ti OR 'surgeries':kw,ab,ti) AND ('elective':kw,ab,ti OR 'electively':kw,ab,ti OR 'elect':kw,ab,ti OR 'elected':kw,ab,ti OR 'electing':kw,ab,ti OR 'elects':kw,ab,ti)) OR 'elective surgery') AND ('coronavirus disease 2019'/exp OR 'coronavirus disease 2019' OR 'sars-cov-2 vaccine'/exp OR 'sars-cov-2 vaccine' OR 'coronaviridae infection'/exp OR 'coronaviridae infection' OR 'coronavirinae'/exp OR 'coronavirinae' OR covid:kw,ab,ti) AND ('delayed surgery'/exp OR 'delayed surgery' OR 'delayed diagnosis'/exp OR 'delayed diagnosis' OR 'time to treatment'/exp OR 'time to treatment' OR 'time interval'/exp OR 'time interval' OR 'timeliness'/exp OR 'timeliness' OR 'time factor'/exp OR 'time factor' OR 'delay':kw,ab,ti OR 'delayed':kw,ab,ti OR 'delaying':kw,ab,ti OR 'delays':kw,ab,ti OR 'timely care':kw,ab,ti OR 'timely treatment':kw,ab,ti) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim)) NOT ([animals]/lim OR [conference abstract]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study')	263
Cochrane Q2	[MH Surgical Procedures, Operative] OR (((elective):ti,ab,kw OR (electively):ti,ab,kw OR (elect):ti,ab,kw OR (elected):ti,ab,kw OR (electing):ti,ab,kw OR (elects):ti,ab,kw) AND ((surgery):ti,ab,kw OR (surgeries):ti,ab,kw OR (surgerys):ti,ab,kw OR (surgical):ti,ab,kw OR (surgically):ti,ab,kw)) AND ([MH Delayed Diagosis] OR [MH Time-to-Treatment] OR [MH Time Factors] OR (delay):ti,ab,kw OR (delayed):ti,ab,kw OR (delaying):ti,ab,kw OR (delays):ti,ab,kw OR (time interval):ti,ab,kw OR (time intervals):ti,ab,kw OR (timely	10

	care):ti,ab,kw OR (timely treatment):ti,ab,kw OR (timeliness):ti,ab,kw) AND ((SARS-CoV-2):ti,ab,kw OR (covid):ti,ab,kw OR (2019 ncov):ti,ab,kw OR (coronavirus):ti,ab,kw OR [MH Covid-19] OR [MH Covid-19 Testing] OR [MH Coronavirus])	
Clinical Trials Q2	Covid-19 AND Elective AND (Delayed OR timely)	22
ICTRP Q2	Covid-19 AND Elective AND Delay	0
KQ2 SEARCH RESULTS	Total records identified by database searches	613
	Additional records located by handsearching	12
	Total trials identified in searches	22
	Total duplicates found	189
	Total records available for screening	414