

Appendix C - Evidence to Decision (EtDs) Tables

QUESTION

Should nonoperative management vs. appendectomy be used for adult patients with acute, uncomplicated appendicitis?	
POPULATION:	adult patients with acute, uncomplicated appendicitis
INTERVENTION:	nonoperative management
COMPARISON:	appendectomy
MAIN OUTCOMES:	Return to work; Length of stay; Length of stay (low risk of bias studies); Cost; Quality of life; Readmission; Death; Death; Postoperative abscess; New course of antibiotics; IR drain; Conversion to operative management or reoperation (all); Conversion to operative management or reoperation (short term); Conversion to operative management or reoperation (long term);
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem						
Is the problem a priority?						
JUDGEMENT	RESEARCH EVIDENCE					ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know						
Desirable Effects						
How substantial are the desirable anticipated effects?						
JUDGEMENT	RESEARCH EVIDENCE					ADDITIONAL CONSIDERATIONS
<input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know						Small 100%
	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
					Risk with appendectomy	Risk difference with nonoperative management
	Return to work	1411 (4 RCTs)	⊕⊕⊕⊕ High	-	The mean return to work was 0	MD 1.78 lower (3.48 lower to 0.08 lower)
	Cost	180 (1 RCT)	⊕⊕⊕⊕ High	-	The mean cost was 0	SMD 1.01 lower (1.32 lower to 0.7 lower)
	Quality of life	1347 (1 RCT)	⊕⊕⊕○ Moderate ^a	-	The mean quality of life was 0	SMD 0.08 higher (0.03 lower to 0.18 higher)
					Study population	

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New course of antibiotics	30 (1 RCT)	⊕⊕○○ Low ^{a,b}	OR 0.87 (0.05 to 15.28)	71 per 1,000	9 fewer per 1,000 (68 fewer to 469 more)
<p>a. The confidence interval for this outcome crosses the threshold for significance.</p> <p>b. Suboptimal power.</p>					

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																																																
<ul style="list-style-type: none"> ● Large ○ Moderate ○ Small ○ Trivial ○ Varies ○ Don't know 	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>№ of participants (studies) Follow-up</th> <th>Certainty of the evidence (GRADE)</th> <th>Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th>Risk with appendectomy</th> <th>Risk difference with nonoperative management</th> </tr> </thead> <tbody> <tr> <td>Length of stay (low risk of bias studies)</td> <td>1691 (4 RCTs)</td> <td>⊕⊕⊕○ Moderate^a</td> <td>-</td> <td>The mean length of stay (low risk of bias studies) was 0</td> <td>MD 0.3 higher (0.5 lower to 1.11 higher)</td> </tr> <tr> <td rowspan="2">Readmission</td> <td rowspan="2">1428 (2 RCTs)</td> <td rowspan="2">⊕⊕⊕⊕ High</td> <td rowspan="2">OR 6.10 (4.21 to 8.84)</td> <td colspan="2">Study population</td> </tr> <tr> <td>53 per 1,000</td> <td>201 more per 1,000 (137 more to 277 more)</td> </tr> <tr> <td rowspan="2">Postoperative abscess</td> <td rowspan="2">399 (3 RCTs)</td> <td rowspan="2">⊕○○○ Very low^{a,d,e}</td> <td rowspan="2">OR 1.91 (0.38 to 9.50)</td> <td colspan="2">Study population</td> </tr> <tr> <td>10 per 1,000</td> <td>9 more per 1,000 (6 fewer to 78 more)</td> </tr> <tr> <td rowspan="2">IR drain</td> <td rowspan="2">1332 (1 RCT)</td> <td rowspan="2">⊕⊕⊕○ Moderate^d</td> <td rowspan="2">OR 4.02 (1.66 to 9.71)</td> <td colspan="2">Study population</td> </tr> <tr> <td>5 per 1,000</td> <td>14 more per 1,000 (3 more to 38 more)</td> </tr> <tr> <td rowspan="2">Conversion to operative management or reoperation (all)</td> <td rowspan="2">381 (4 RCTs)</td> <td rowspan="2">⊕⊕⊕⊕ High^e</td> <td rowspan="2">OR 20.09 (5.39 to 74.90)</td> <td colspan="2">Study population</td> </tr> <tr> <td>5 per 1,000</td> <td>91 more per 1,000 (22 more to 279 more)</td> </tr> <tr> <td rowspan="2">Conversion to operative management or reoperation (short term)</td> <td rowspan="2">41 (1 RCT)</td> <td rowspan="2">⊕⊕○○ Low^{a,d}</td> <td rowspan="2">OR 13.06 (0.66 to 260.45)</td> <td colspan="2">Study population</td> </tr> <tr> <td>0 per 1,000</td> <td>0 fewer per 1,000 (0 fewer to 0 fewer)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2">Study population</td> </tr> </tbody> </table>	Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)						Risk with appendectomy	Risk difference with nonoperative management	Length of stay (low risk of bias studies)	1691 (4 RCTs)	⊕⊕⊕○ Moderate ^a	-	The mean length of stay (low risk of bias studies) was 0	MD 0.3 higher (0.5 lower to 1.11 higher)	Readmission	1428 (2 RCTs)	⊕⊕⊕⊕ High	OR 6.10 (4.21 to 8.84)	Study population		53 per 1,000	201 more per 1,000 (137 more to 277 more)	Postoperative abscess	399 (3 RCTs)	⊕○○○ Very low ^{a,d,e}	OR 1.91 (0.38 to 9.50)	Study population		10 per 1,000	9 more per 1,000 (6 fewer to 78 more)	IR drain	1332 (1 RCT)	⊕⊕⊕○ Moderate ^d	OR 4.02 (1.66 to 9.71)	Study population		5 per 1,000	14 more per 1,000 (3 more to 38 more)	Conversion to operative management or reoperation (all)	381 (4 RCTs)	⊕⊕⊕⊕ High ^e	OR 20.09 (5.39 to 74.90)	Study population		5 per 1,000	91 more per 1,000 (22 more to 279 more)	Conversion to operative management or reoperation (short term)	41 (1 RCT)	⊕⊕○○ Low ^{a,d}	OR 13.06 (0.66 to 260.45)	Study population		0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)					Study population		large 100%
	Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																																																													
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	Conversion to operative management or reoperation (long term)	310 (2 RCTs)	⊕⊕⊕⊕ High ^e	OR 30.37 (5.77 to 159.77)	6 per 1,000	159 more per 1,000 (30 more to 504 more)	
<p>a. The confidence interval for this outcome crosses the threshold for significance.</p> <p>b. The studies contributing to this outcome were very inconsistent, with non overlapping confidence intervals and opposing estimates of harm or benefit.</p> <p>c. The studies contributing to this outcome were at high risk of bias on the Newcastle-Ottawa scale due to concerns over the comparability of the two groups.</p> <p>d. Suboptimal power.</p> <p>e. This outcome included a study at high risk of bias on the Cochrane Risk of Bias tool due to concerns over their reporting of outcomes.</p>							

Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Very low <input checked="" type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		Low 100%

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input checked="" type="radio"/> Possibly important uncertainty or variability <input type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		Possibly important uncertainty or variability 100%

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS

Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> ● Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		Favors the comparison 100%
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Acceptability

Is the intervention acceptable to key stakeholders?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		Probably yes 100%

Feasibility

Is the intervention feasible to implement?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		Probably yes 100%

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

Appendix C - Evidence to Decision (EtDs) Tables

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention •	Conditional recommendation for either the intervention or the comparison ○	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Immunocompromised patients, pregnant patients, patients with poor access to care (insurance, rural vs urban, distance), presence of fecalith on imaging, IBD patients, recurrent appendicitis, geriatric patients, patients at higher risk for operative management, morbidly obese

Implementation considerations

Monitoring and evaluation

Research priorities

longer term studies – long term outcome data
prioritizing quality of life studies

REFERENCES SUMMARY

QUESTION

Should nonoperative management vs. appendectomy be used for pediatric patients with acute, uncomplicated appendicitis?	
POPULATION:	pediatric patients with acute, uncomplicated appendicitis
INTERVENTION:	nonoperative management
COMPARISON:	appendectomy
MAIN OUTCOMES:	Return to school; Length of stay; Cost; Quality of life; Readmission; Death; ICU admission; New/postoperative abscess; New course of antibiotics; IR drain; Conversion to operative management/reoperation (all); Conversion to operative management/reoperation (short term); Conversion to operative management/reoperation (long term);
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem						
Is the problem a priority?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know						
Desirable Effects						
How substantial are the desirable anticipated effects?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know					Small 100%	
	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
					Risk with appendectomy	Risk difference with nonoperative management
	Return to school	39 (1 RCT)	⊕○○○ Very low ^{a,b,c}	-	The mean return to school was 0	MD 2 lower (6.19 lower to 2.19 higher)
	Cost	50 (1 RCT)	⊕⊕○○ Low ^{a,b}	-	The mean cost was 0	SMD 0.02 lower (0.58 lower to 0.53 higher)
	ICU admission				Study population	

Appendix C - Evidence to Decision (EtDs) Tables

	44 (1 observational study)	⊕○○○ Very low ^{a,b,d}	OR 0.24 (0.01 to 6.28)	53 per 1,000	39 fewer per 1,000 (52 fewer to 206 more)
New/postoperative abscess	284 (4 observational studies)	⊕○○○ Very low ^{a,b,d}	OR 0.13 (0.01 to 1.29)	Study population 21 per 1,000	18 fewer per 1,000 (21 fewer to 6 more)
IR drain	216 (2 observational studies)	⊕○○○ Very low ^{a,b,d}	OR 0.14 (0.00 to 6.82)	Study population 9 per 1,000	8 fewer per 1,000 (9 fewer to 49 more)
<p>a. Suboptimal sample size. b. This outcome's confidence interval is non-significant. c. This outcome included a study deemed at high risk of bias using the Cochrane Risk of Bias tool due to inadequate descriptions of study protocol. d. Nearly all the observational studies included were rated high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the two groups.</p>					

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																
<ul style="list-style-type: none"> ● Large ○ Moderate ○ Small ○ Trivial ○ Varies ○ Don't know 	<table border="1"> <thead> <tr> <th rowspan="2">Outcomes</th> <th rowspan="2">No of participants (studies) Follow-up</th> <th rowspan="2">Certainty of the evidence (GRADE)</th> <th rowspan="2">Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <th>Risk with appendectomy</th> <th>Risk difference with nonoperative management</th> </tr> </thead> <tbody> <tr> <td>Length of stay</td> <td>77146 (6 observational studies)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>-</td> <td>The mean length of stay was 0</td> <td>MD 1.4 higher (0.61 lower to 3.41 higher)</td> </tr> <tr> <td>Quality of life</td> <td>194 (2 observational studies)</td> <td>⊕○○○ Very low^{a,b,d}</td> <td>-</td> <td>The mean quality of life was 0</td> <td>SMD 0.09 lower (0.71 lower to 0.53 higher)</td> </tr> <tr> <td>Readmission</td> <td>193 (4 RCTs)</td> <td>⊕⊕⊕⊕ High^e</td> <td>OR 10.57 (2.30 to 48.69)</td> <td>Study population 31 per 1,000</td> <td>220 more per 1,000 (37 more to 575 more)</td> </tr> <tr> <td>Conversion to operative management/reoperation (all)</td> <td>100 (2 RCTs)</td> <td>⊕⊕⊕⊕ High</td> <td>OR 38.31 (4.90 to 299.69)</td> <td>Study population 0 per 1,000</td> <td>0 fewer per 1,000</td> </tr> </tbody> </table>	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)		Risk with appendectomy	Risk difference with nonoperative management	Length of stay	77146 (6 observational studies)	⊕○○○ Very low ^{a,b,c}	-	The mean length of stay was 0	MD 1.4 higher (0.61 lower to 3.41 higher)	Quality of life	194 (2 observational studies)	⊕○○○ Very low ^{a,b,d}	-	The mean quality of life was 0	SMD 0.09 lower (0.71 lower to 0.53 higher)	Readmission	193 (4 RCTs)	⊕⊕⊕⊕ High ^e	OR 10.57 (2.30 to 48.69)	Study population 31 per 1,000	220 more per 1,000 (37 more to 575 more)	Conversion to operative management/reoperation (all)	100 (2 RCTs)	⊕⊕⊕⊕ High	OR 38.31 (4.90 to 299.69)	Study population 0 per 1,000	0 fewer per 1,000	Large 100%
Outcomes	No of participants (studies) Follow-up					Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																										
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					(0 fewer to 0 fewer)	
Conversion to operative management/reoperation (short term)	100 (2 RCTs)	⊕⊕⊕⊕ High ^{a,d}	OR 5.89 (0.66 to 52.28)	Study population	0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)
Conversion to operative management/reoperation (long term)	100 (2 RCTs)	⊕⊕⊕⊕ High ^d	OR 22.71 (2.87 to 179.78)	Study population	0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)
<p>a. This outcome's confidence interval is non-significant.</p> <p>b. Nearly all the observational studies included were rated high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the two groups.</p> <p>c. This outcome included studies with non-overlapping confidence intervals.</p> <p>d. Suboptimal sample size.</p> <p>e. This outcome included a study deemed at high risk of bias using the Cochrane Risk of Bias tool due to inadequate descriptions of study protocol.</p>						

Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input checked="" type="radio"/> Very low <input type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input checked="" type="radio"/> Possibly important uncertainty or variability <input type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		Possibly important uncertainty or variability 100%

Balance of effects

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Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ● Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		Favors the comparison 100%
Acceptability		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		Probably yes 100%
Feasibility		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		Probably yes 100%

SUMMARY OF JUDGEMENTS

PROBLEM	JUDGEMENT						
	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			

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	JUDGEMENT						
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention •	Conditional recommendation for either the intervention or the comparison ○	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Immunocompromised patients, pregnant patients, patients with poor access to care (insurance, rural vs urban, distance), presence of fecalith on imaging, IBD patients, recurrent appendicitis, geriatric patients, patients at higher risk for operative management, morbidly obese. Infants, young children

Implementation considerations

Monitoring and evaluation

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Research priorities

longer term studies – long term outcome data
prioritizing quality of life studies

REFERENCES SUMMARY

QUESTION

Should nonoperative vs. operative management be used for adult patients with acute, complicated appendicitis?	
POPULATION:	adult patients with acute, complicated appendicitis
INTERVENTION:	nonoperative
COMPARISON:	operative management
MAIN OUTCOMES:	Length of stay; Cost; Readmission; Death; ICU admission; New/postoperative abscess; Reoperation; Reintervention - IR drain;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																				
Is the problem a priority?																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																		
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Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																
				Risk with operative management	Risk difference with nonoperative															
ICU admission	183 (1 observational study)	⊕○○○ Very low ^a	OR 0.16 (0.03 to 0.80)	Study population 100 per 1,000	83 fewer per 1,000 (97 fewer to 18 fewer)															
Undesirable Effects																				
How substantial are the undesirable anticipated effects?																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																		

Appendix C - Evidence to Decision (EtDs) Tables

Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
				Risk with operative management	Risk difference with nonoperative
Length of stay	60 (1 RCT)	⊕⊕⊕○ Moderate ^a	-	The mean length of stay was 0	MD 1.12 higher (0.65 higher to 1.59 higher)
Cost	305 (1 observational study)	⊕○○○ Very low ^{a,b,c}	-	The mean cost was 0	MD 124 higher (9724.44 lower to 9972.44 higher)
Readmission	60 (1 RCT)	⊕⊕⊕○ Moderate ^a	OR 10.55 (1.23 to 90.66)	Study population 33 per 1,000	233 more per 1,000 (7 more to 724 more)
Death	60 (1 RCT)	⊕⊕⊕○ Moderate ^a	OR 7.39 (0.15 to 372.38)	Study population 0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)
New/postoperative abscess	60 (1 RCT)	⊕⊕○○ Low ^{a,b}	OR 3.27 (0.77 to 13.83)	Study population 100 per 1,000	167 more per 1,000 (21 fewer to 506 more)
Reoperation	60 (1 RCT)	⊕⊕⊕○ Moderate ^a	OR 29.00 (3.49 to 241.13)	Study population 33 per 1,000	467 more per 1,000 (74 more to 859 more)
<p>a. Suboptimal sample size. b. Non-significant confidence interval. c. This outcome was based on a study rated at high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the two groups.</p>					

large 100%

Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT

RESEARCH EVIDENCE

ADDITIONAL CONSIDERATIONS

Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> ● Very low ○ Low ○ Moderate ○ High ○ No included studies 		very low 100%
<h3>Values</h3>		
Is there important uncertainty about or variability in how much people value the main outcomes?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Important uncertainty or variability ● Possibly important uncertainty or variability ○ Probably no important uncertainty or variability ○ No important uncertainty or variability 		Possibly important uncertainty or variability 100%
<h3>Balance of effects</h3>		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ● Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		Favors the comparison 100%
<h3>Acceptability</h3>		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		Probably yes 100%
<h3>Feasibility</h3>		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies 		Probably yes 100%

Appendix C - Evidence to Decision (EtDs) Tables

○ Don't know		
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SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention •	Conditional recommendation for either the intervention or the comparison ○	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
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CONCLUSIONS

Recommendation

Justification

malignancy rate

Subgroup considerations

Appendix C - Evidence to Decision (EtDs) Tables

Immunocompromised patients, pregnant patients, patients with poor access to care (insurance, rural vs urban, distance), presence of fecalith on imaging, IBD patients, recurrent appendicitis, geriatric patients, patients at higher risk for operative management, morbidly obese

Discrete abscess*, longer duration of sx (>1wk) *
Cecal inflammation on admission imaging, septic patients

Implementation considerations

Monitoring and evaluation

Research priorities

REFERENCES SUMMARY

QUESTION

Should nonoperative management vs. operative management be used for pediatric patients with acute, complicated appendicitis?	
POPULATION:	pediatric patients with acute, complicated appendicitis
INTERVENTION:	nonoperative management
COMPARISON:	operative management
MAIN OUTCOMES:	Return to school; Length of stay; Cost; Quality of life; Readmission; Abscess; New course of antibiotics; Conversion to operative management/reoperation;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem		
Is the problem a priority?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		
Desirable Effects		
How substantial are the desirable anticipated effects?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 		
Undesirable Effects		
How substantial are the undesirable anticipated effects?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input checked="" type="radio"/> Large <input type="radio"/> Moderate <input type="radio"/> Small <input type="radio"/> Trivial <input type="radio"/> Varies <input type="radio"/> Don't know 		large 100%

Appendix C - Evidence to Decision (EtDs) Tables

Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
				Risk with operative management	Risk difference with nonoperative management
Return to school	131 (1 RCT)	⊕⊕⊕○ Moderate ^a	-	The mean return to school was 0	MD 5.6 higher (2.82 higher to 8.38 higher)
Length of stay	171 (2 RCTs)	⊕⊕○○ Low ^{a,b}	-	The mean length of stay was 0	MD 1.2 higher (1.16 lower to 3.56 higher)
Cost	131 (1 RCT)	⊕⊕○○ Low ^{a,b}	-	The mean cost was 0	MD 4929 higher (567.98 lower to 10425.98 higher)
Quality of life	40 (1 RCT)	⊕⊕○○ Low ^{a,c}	-	The mean quality of life was 0	SMD 2.88 lower (3.79 lower to 1.97 lower)
Readmission	131 (1 RCT)	⊕⊕⊕○ Moderate ^a	OR 5.39 (1.89 to 15.37)	Study population 78 per 1,000	235 more per 1,000 (60 more to 488 more)
Abscess	171 (2 RCTs)	⊕⊕⊕⊕ High ^a	OR 2.23 (1.10 to 4.50)	Study population 190 per 1,000	154 more per 1,000 (15 more to 324 more)
New course of antibiotics	316 (1 observational study)	⊕○○○ Very low ^{a,d}	OR 2.42 (1.01 to 5.84)	Study population 48 per 1,000	60 more per 1,000 (0 fewer to 178 more)
Conversion to operative management/reoperation	40 (1 RCT)	⊕⊕○○ Low ^{a,b}	OR 11.18 (0.56 to 222.98)	Study population 0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)

a. Suboptimal sample size.
b. This outcome's confidence interval is non-significant.
c. This outcome included an RCT where the two groups had statistically significant differences at baseline, raising concerns about the randomization process.

Appendix C - Evidence to Decision (EtDs) Tables

	<p>d. This outcome included studies rated high or unclear risk of bias on the Newcastle Ottawa scale due to concerns about the comparability of the two groups.</p>	
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Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Very low <input checked="" type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		<p>Low 100%</p>

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input checked="" type="radio"/> Possibly important uncertainty or variability <input type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		<p>Possibly important uncertainty or variability 100%</p>

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input checked="" type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know 		<p>favors the comparison 100%</p>

Appendix C - Evidence to Decision (EtDs) Tables

Acceptability		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Probably yes 100%

Feasibility		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Probably yes 100%

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input checked="" type="radio"/>	Conditional recommendation for either the intervention or the comparison <input type="radio"/>	Conditional recommendation for the intervention <input type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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CONCLUSIONS

Appendix C - Evidence to Decision (EtDs) Tables

Recommendation

Justification

Subgroup considerations

Immunocompromised patients, pregnant patients, patients with poor access to care (insurance, rural vs urban, distance), presence of fecalith on imaging, IBD patients, recurrent appendicitis, geriatric patients, patients at higher risk for operative management, morbidly obese

Discrete abscess*, longer duration of sx (>1wk)
Cecal inflammation on admission imaging, septic patients

Implementation considerations

Monitoring and evaluation

Research priorities

REFERENCES SUMMARY

QUESTION

Should operation >12 hours after diagnosis vs. operation <12 hours after diagnosis be used for patients with uncomplicated appendicitis undergoing appendectomy?	
POPULATION:	patients with uncomplicated appendicitis undergoing appendectomy
INTERVENTION:	operation >12 hours after diagnosis
COMPARISON:	operation <12 hours after diagnosis
MAIN OUTCOMES:	Length of hospital stay; Abscess; Readmission; Reoperation; Drain placement;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																																
Is the problem a priority?																																
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																														
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 																																
Desirable Effects																																
How substantial are the desirable anticipated effects?																																
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																														
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Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> ● Very low ○ Low ○ Moderate ○ High ○ No included studies 		
<h3>Values</h3>		
Is there important uncertainty about or variability in how much people value the main outcomes?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 		
<h3>Balance of effects</h3>		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ● Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		
<h3>Acceptability</h3>		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		
<h3>Feasibility</h3>		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ○ Probably yes ● Yes ○ Varies 		

Appendix C - Evidence to Decision (EtDs) Tables

○ Don't know		
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SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention ○	Conditional recommendation for either the intervention or the comparison •	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Appendix C - Evidence to Decision (EtDs) Tables

Immunocompromised patients

Implementation considerations

OR through put may justify doing the case overnight if there is no availability during the following day.
Upper limit of waiting -

Monitoring and evaluation

Upper limit of waiting -

Research priorities

REFERENCES SUMMARY

QUESTION

Should operation >12 hours from diagnosis vs. operation <12 hours from diagnosis be used for pediatric patients with uncomplicated appendicitis undergoing appendectomy?	
POPULATION:	pediatric patients with uncomplicated appendicitis undergoing appendectomy
INTERVENTION:	operation >12 hours from diagnosis
COMPARISON:	operation <12 hours from diagnosis
MAIN OUTCOMES:	Abscess; Readmission; Reoperation;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																				
Is the problem a priority?																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																		
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 																				
Desirable Effects																				
How substantial are the desirable anticipated effects?																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																		
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Appendix C - Evidence to Decision (EtDs) Tables

	<ul style="list-style-type: none"> b. The studies contributing to this outcome had non-overlapping confidence intervals. c. This outcome had a fragility index of 0. d. This outcome contained studies that were rated high risk of bias on the Newcastle Ottawa scale due to comparability of the intervention and comparison arms. 	
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Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																				
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	<table border="1"> <thead> <tr> <th rowspan="2">Outcomes</th> <th rowspan="2">№ of participants (studies) Follow-up</th> <th rowspan="2">Certainty of the evidence (GRADE)</th> <th rowspan="2">Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <th>Risk with operation <12 hours from diagnosis</th> <th>Risk difference with operation >12 hours from diagnosis</th> </tr> </thead> <tbody> <tr> <td>Reoperation</td> <td>2756 (1 observational study)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>OR 1.04 (0.45 to 2.41)</td> <td>Study population 8 per 1,000</td> <td>0 fewer per 1,000 (4 fewer to 11 more)</td> </tr> <tr> <td>Abscess</td> <td>3004 (2 observational studies)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>OR 2.60 (0.05 to 127.83)</td> <td>Study population 57 per 1,000</td> <td>79 more per 1,000 (54 fewer to 829 more)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> a. This outcome contained studies that were rated unclear risk of bias on the Newcastle Ottawa scale due to comparability of the intervention and comparison arms. b. This outcome had a fragility index of 0. c. This outcome had a non-significant confidence interval. 	Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)		Risk with operation <12 hours from diagnosis	Risk difference with operation >12 hours from diagnosis	Reoperation	2756 (1 observational study)	⊕○○○ Very low ^{a,b,c}	OR 1.04 (0.45 to 2.41)	Study population 8 per 1,000	0 fewer per 1,000 (4 fewer to 11 more)	Abscess	3004 (2 observational studies)	⊕○○○ Very low ^{a,b,c}	OR 2.60 (0.05 to 127.83)	Study population 57 per 1,000	79 more per 1,000 (54 fewer to 829 more)	
Outcomes	№ of participants (studies) Follow-up					Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)														
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Reoperation	2756 (1 observational study)	⊕○○○ Very low ^{a,b,c}	OR 1.04 (0.45 to 2.41)	Study population 8 per 1,000	0 fewer per 1,000 (4 fewer to 11 more)																	
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Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input checked="" type="radio"/> Very low <input type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		

Appendix C - Evidence to Decision (EtDs) Tables

Values		
Is there important uncertainty about or variability in how much people value the main outcomes?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> Important uncertainty or variability <input type="radio"/> Possibly important uncertainty or variability <input checked="" type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability		

Balance of effects		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input checked="" type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know		

Acceptability		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		

Feasibility		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		

SUMMARY OF JUDGEMENTS

PROBLEM	JUDGEMENT						
	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know

Appendix C - Evidence to Decision (EtDs) Tables

	JUDGEMENT						
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention ○	Conditional recommendation for either the intervention or the comparison •	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
---	--	--	--	---

CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Immunocompromised patients

Implementation considerations

OR through put may justify doing the case overnight if there is no availability during the following day.

Upper limit of waiting

Appendix C - Evidence to Decision (EtDs) Tables

Monitoring and evaluation

Upper limit of waiting

Research priorities

REFERENCES SUMMARY

QUESTION

Should Suction and lavage vs. suction alone be used for adult patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	adult patients undergoing appendectomy for perforated appendicitis
INTERVENTION:	Suction and lavage
COMPARISON:	suction alone
MAIN OUTCOMES:	Organ space infection*; Postoperative drain placement; Hospital length of stay (LOS); Readmission; Reoperation*; Death*;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																																					
Is the problem a priority?																																					
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																			
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		100% Yes																																			
Desirable Effects																																					
How substantial are the desirable anticipated effects?																																					
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																			
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>No of participants (studies) Follow-up</th> <th>Certainty of the evidence (GRADE)</th> <th>Relative effect (95% CI)</th> <th>Anticipated absolute effects* (95% CI)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td> <table border="1"> <thead> <tr> <th>Risk with suction alone</th> <th>Risk difference with Suction and lavage</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> </td> </tr> </thead> <tbody> <tr> <td>Hospital length of stay (LOS)</td> <td>546 (2 RCTs)</td> <td>⊕○○○ Very low^{abc}</td> <td>-</td> <td> <table border="1"> <tbody> <tr> <td>The mean hospital length of stay (LOS) was 0</td> <td>MD 1.28 lower (3.32 lower to .76 higher)</td> </tr> </tbody> </table> </td> </tr> <tr> <td>Organ space infection*</td> <td>713 (4 RCTs)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>RR 0.92 (0.41 to 2.06)</td> <td> <table border="1"> <thead> <tr> <th colspan="2">Study population</th> </tr> </thead> <tbody> <tr> <td>93 per 1,000</td> <td>7 fewer per 1,000 (55 fewer to 98 more)</td> </tr> </tbody> </table> </td> </tr> <tr> <td>Death*</td> <td></td> <td></td> <td></td> <td>Study population</td> </tr> </tbody> </table>	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)					<table border="1"> <thead> <tr> <th>Risk with suction alone</th> <th>Risk difference with Suction and lavage</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Risk with suction alone	Risk difference with Suction and lavage			Hospital length of stay (LOS)	546 (2 RCTs)	⊕○○○ Very low ^{abc}	-	<table border="1"> <tbody> <tr> <td>The mean hospital length of stay (LOS) was 0</td> <td>MD 1.28 lower (3.32 lower to .76 higher)</td> </tr> </tbody> </table>	The mean hospital length of stay (LOS) was 0	MD 1.28 lower (3.32 lower to .76 higher)	Organ space infection*	713 (4 RCTs)	⊕○○○ Very low ^{a,b,c}	RR 0.92 (0.41 to 2.06)	<table border="1"> <thead> <tr> <th colspan="2">Study population</th> </tr> </thead> <tbody> <tr> <td>93 per 1,000</td> <td>7 fewer per 1,000 (55 fewer to 98 more)</td> </tr> </tbody> </table>	Study population		93 per 1,000	7 fewer per 1,000 (55 fewer to 98 more)	Death*				Study population	83% Small 17% Large
Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																																	
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Death*				Study population																																	

Appendix C - Evidence to Decision (EtDs) Tables

		286 (1 RCT)	⊕○○○○ Very low ^{a,c,d}	RR 0.31 (0.02 to 6.39)	11 per 1,000	8 fewer per 1,000 (11 fewer to 62 more)
Readmission		367 (2 RCTs)	⊕○○○○ Very low ^{a,b,c}	RR 0.90 (0.36 to 2.24)	Study population	
					121 per 1,000	12 fewer per 1,000 (77 fewer to 150 more)
<p>a. This outcome included a study rated at high risk of bias on the Cochrane Risk of Bias Tool due to inadequate description of the randomization process and ambiguity surrounding the number of patients lost to follow up.</p> <p>b. The papers contributing to this outcome had non-overlapping confidence intervals.</p> <p>c. This outcome's confidence interval is non-significant.</p> <p>d. This outcome's fragility index is 0.</p>						

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																								
<ul style="list-style-type: none"> ○ Large ○ Moderate ● Small ○ Trivial ○ Varies ○ Don't know 	<table border="1"> <thead> <tr> <th rowspan="2">Outcomes</th> <th rowspan="2">№ of participants (studies) Follow-up</th> <th rowspan="2">Certainty of the evidence (GRADE)</th> <th rowspan="2">Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <th>Risk with suction alone</th> <th>Risk difference with Suction and lavage</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Postoperative drain placement</td> <td rowspan="2">453 (3 RCTs)</td> <td rowspan="2">⊕○○○○ Very low^{a,b,c}</td> <td rowspan="2">RR 1.11 (0.53 to 2.30)</td> <td colspan="2">Study population</td> </tr> <tr> <td>50 per 1,000</td> <td>6 more per 1,000 (24 fewer to 65 more)</td> </tr> <tr> <td rowspan="2">Reoperation*</td> <td rowspan="2">453 (3 RCTs)</td> <td rowspan="2">⊕○○○○ Very low^{a,b,c}</td> <td rowspan="2">RR 1.68 (0.59 to 4.79)</td> <td colspan="2">Study population</td> </tr> <tr> <td>31 per 1,000</td> <td>21 more per 1,000 (13 fewer to 117 more)</td> </tr> </tbody> </table> <p>a. This outcome included a study rated at high risk of bias on the Cochrane Risk of Bias Tool due to inadequate description of the randomization process and ambiguity surrounding the number of patients lost to follow up.</p> <p>b. This outcome's confidence interval is non-significant.</p> <p>c. This outcome's fragility index is 0.</p>	Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)		Risk with suction alone	Risk difference with Suction and lavage	Postoperative drain placement	453 (3 RCTs)	⊕○○○○ Very low ^{a,b,c}	RR 1.11 (0.53 to 2.30)	Study population		50 per 1,000	6 more per 1,000 (24 fewer to 65 more)	Reoperation*	453 (3 RCTs)	⊕○○○○ Very low ^{a,b,c}	RR 1.68 (0.59 to 4.79)	Study population		31 per 1,000	21 more per 1,000 (13 fewer to 117 more)	100% Small
Outcomes	№ of participants (studies) Follow-up					Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																		
		Risk with suction alone	Risk difference with Suction and lavage																							
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Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
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Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> ● Very low ○ Low ○ Moderate ○ High ○ No included studies 		100% Very low
<h3>Values</h3>		
Is there important uncertainty about or variability in how much people value the main outcomes?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 		87.5% Probably no important uncertainty or variability 12.5% Possibly important uncertainty or variability
<h3>Balance of effects</h3>		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ● Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		100% Does not favor either the intervention or the comparison
<h3>Acceptability</h3>		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		87.5% Probably yes 12.5% Yes
<h3>Feasibility</h3>		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ○ Probably yes ● Yes 		87.5% Yes 12.5% Probably yes

Appendix C - Evidence to Decision (EtDs) Tables

<input type="radio"/> Varies <input type="radio"/> Don't know		
--	--	--

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input type="radio"/>	Conditional recommendation for either the intervention or the comparison <input checked="" type="radio"/>	Conditional recommendation for the intervention <input type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Appendix C - Evidence to Decision (EtDs) Tables

Pus in all 4 quadrants, immunocompromised patients

Implementation considerations

Volume of irrigation fluid used, antibiotic irrigation/type of irrigation

Monitoring and evaluation

Research priorities

standardized irrigation technique in future randomized studies

REFERENCES SUMMARY

QUESTION

Should Suction and lavage vs. suction alone be used for pediatric patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	pediatric patients undergoing appendectomy for perforated appendicitis
INTERVENTION:	Suction and lavage
COMPARISON:	suction alone
MAIN OUTCOMES:	Organ space infection*; Death*; Post operative drain placement; Hospital length of stay (LOS); Readmission; Reoperation*;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem						
Is the problem a priority?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know					100% Yes	
Desirable Effects						
How substantial are the desirable anticipated effects?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<input type="radio"/> Trivial <input checked="" type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know					85.7% Small 14.3% moderate	
	Outcomes	Nº of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
	Organ space infection*	406 (3 RCTs)	⊕⊕○○○ Low ^{a,b}	RR 0.92 (0.57 to 1.49)	Risk with suction alone	Risk difference with Suction and lavage
					Study population	
					144 per 1,000	11 fewer per 1,000 (62 fewer to 70 more)
					Study population	

Appendix C - Evidence to Decision (EtDs) Tables

	Post operative drain placement	320 (2 RCTs)	⊕⊕○○ Low ^{a,b}	RR 0.75 (0.37 to 1.53)	100 per 1,000	25 fewer per 1,000 (63 fewer to 53 more)
	Hospital length of stay (LOS)	320 (2 RCTs)	⊕⊕○○ Low ^{a,c}	-	The mean hospital length of stay (LOS) was 0	MD 0.33 lower (0.97 lower to 0.32 higher)
	Readmission	320 (2 RCTs)	⊕⊕⊕○ Moderate ^{a,b}	RR 0.24 (0.04 to 1.45)	Study population 38 per 1,000 28 fewer per 1,000 (36 fewer to 17 more)	
<p>a. This outcome has a non-significant confidence interval.</p> <p>b. This outcome has a fragility index of 0.</p> <p>c. N< 400 with continuous variable.</p>						

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																					
<ul style="list-style-type: none"> ○ Large ○ Moderate ● Small ○ Trivial ○ Varies ○ Don't know 	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>No of participants (studies) Follow-up</th> <th>Certainty of the evidence (GRADE)</th> <th>Relative effect (95% CI)</th> <th>Anticipated absolute effects* (95% CI)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td> <table border="1"> <tr> <th>Risk with suction alone</th> <th>Risk difference with Suction and lavage</th> </tr> </table> </td> </tr> </thead> <tbody> <tr> <td>Reoperation*</td> <td>1105 (4 RCTs)</td> <td>⊕⊕⊕○ Moderate^{a,b}</td> <td>RR 2.57 (0.47 to 13.97)</td> <td> <table border="1"> <tr> <td>Study population</td> <td></td> </tr> <tr> <td>5 per 1,000</td> <td>8 more per 1,000 (3 fewer to 63 more)</td> </tr> </table> </td> </tr> </tbody> </table> <p>a. This outcome has a non-significant confidence interval.</p> <p>b. This outcome has a fragility index of 1.</p>	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)					<table border="1"> <tr> <th>Risk with suction alone</th> <th>Risk difference with Suction and lavage</th> </tr> </table>	Risk with suction alone	Risk difference with Suction and lavage	Reoperation*	1105 (4 RCTs)	⊕⊕⊕○ Moderate ^{a,b}	RR 2.57 (0.47 to 13.97)	<table border="1"> <tr> <td>Study population</td> <td></td> </tr> <tr> <td>5 per 1,000</td> <td>8 more per 1,000 (3 fewer to 63 more)</td> </tr> </table>	Study population		5 per 1,000	8 more per 1,000 (3 fewer to 63 more)	100% Small
Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																			
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Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
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Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> <input type="radio"/> Very low <input checked="" type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		100% Low
<h3>Values</h3>		
Is there important uncertainty about or variability in how much people value the main outcomes?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input type="radio"/> Possibly important uncertainty or variability <input checked="" type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		87.5% Probably no important uncertainty or variability 12.5% Possibly important uncertainty or variability
<h3>Balance of effects</h3>		
Does the balance between desirable and undesirable effects favor the intervention or the comparison?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input checked="" type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know 		100% Does not favor either the intervention or the comparison
<h3>Acceptability</h3>		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		87.5% Probably yes 12.5% Yes
<h3>Feasibility</h3>		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies 		87.5% Yes 12.5% Probably yes

Appendix C - Evidence to Decision (EtDs) Tables

o Don't know		
--------------	--	--

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention o	Conditional recommendation against the intervention o	Conditional recommendation for either the intervention or the comparison •	Conditional recommendation for the intervention o	Strong recommendation for the intervention o
---	--	--	--	---

CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Appendix C - Evidence to Decision (EtDs) Tables

Pus in all 4 quadrants, immunocompromised patients

Implementation considerations

Volume of irrigation fluid used, antibiotic irrigation/type of irrigation

Monitoring and evaluation

Research priorities

standardized irrigation technique in future randomized studies

REFERENCES SUMMARY

QUESTION

Should routine drain placement vs. no routine drain placement be used for adult patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	adult patients undergoing appendectomy for complicated appendicitis
INTERVENTION:	routine drain placement
COMPARISON:	no routine drain placement
MAIN OUTCOMES:	Organ space infection*; Required new course of antibiotics*; Postoperative drain placement/replacement*; Readmission; Reoperation*; Death*; Length of stay;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																																				
Is the problem a priority?																																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																		
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		100% Yes																																		
Desirable Effects																																				
How substantial are the desirable anticipated effects?																																				
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																																		
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Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																																
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Appendix C - Evidence to Decision (EtDs) Tables

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ● Very low ○ Low ○ Moderate ○ High ○ No included studies 		100% Very low

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 		100% Probably no important uncertainty or variability

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Favors the comparison ● Probably favors the comparison ○ Does not favor either the intervention or the comparison ○ Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		83.3% Probably favors the comparison 16.7% Favors the comparison

Acceptability

Is the intervention acceptable to key stakeholders?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes ○ Yes ○ Varies ○ Don't know 		83.3% Probably yes 16.7% Probably no

Feasibility

Is the intervention feasible to implement?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ No ○ Probably no ● Probably yes 		83.3% Probably yes 16.7% Probably no

Appendix C - Evidence to Decision (EtDs) Tables

<input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		
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SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input checked="" type="radio"/>	Conditional recommendation for either the intervention or the comparison <input type="radio"/>	Conditional recommendation for the intervention <input type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Appendix C - Evidence to Decision (EtDs) Tables

Immunosuppressed patients, antibiotic duration

Implementation considerations

There could be other outcomes we did not look at, such as drains falling out post operatively

Monitoring and evaluation

Research priorities

Randomized controlled trials, standardizing the type and size of drain used, standardizing the type and duration of post operative antibiotic therapy

REFERENCES SUMMARY

QUESTION

Should routine drain placement vs. no routine drain placement be used for pediatric patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	pediatric patients undergoing appendectomy for complicated appendicitis
INTERVENTION:	routine drain placement
COMPARISON:	no routine drain placement
MAIN OUTCOMES:	Organ space infection*; Postoperative drain placement/replacement*; Readmission; Reoperation*;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																										
Is the problem a priority?																										
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																								
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Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																						
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Appendix C - Evidence to Decision (EtDs) Tables

Undesirable Effects																																																		
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		Outcomes	Nº of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																																												
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<p>a. This outcome included a study rated at high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the two groups.</p> <p>b. The studies contributing to this outcome had non-overlapping confidence intervals.</p> <p>c. Fragility index of 0.</p> <p>d. Non-significant confidence interval</p>																																																		
<h3>Certainty of evidence</h3> <p>What is the overall certainty of the evidence of effects?</p>																																																		
JUDGEMENT	RESEARCH EVIDENCE					ADDITIONAL CONSIDERATIONS																																												
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Appendix C - Evidence to Decision (EtDs) Tables

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input type="radio"/> Possibly important uncertainty or variability <input checked="" type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		100% Probably no important uncertainty or variability
<h3>Balance of effects</h3> <p>Does the balance between desirable and undesirable effects favor the intervention or the comparison?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Favors the comparison <input checked="" type="radio"/> Probably favors the comparison <input type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know 		83.3% Probably favors the comparison 16.7% Favors the comparison
<h3>Acceptability</h3> <p>Is the intervention acceptable to key stakeholders?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		83.3% Probably yes 16.7% Probably no
<h3>Feasibility</h3> <p>Is the intervention feasible to implement?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		83.3% Probably yes 16.7% Probably no

SUMMARY OF JUDGEMENTS

PROBLEM	JUDGEMENT						
	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies

Appendix C - Evidence to Decision (EtDs) Tables

	JUDGEMENT						
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention ○	Conditional recommendation against the intervention •	Conditional recommendation for either the intervention or the comparison ○	Conditional recommendation for the intervention ○	Strong recommendation for the intervention ○
---	---	---	--	---

CONCLUSIONS

Recommendation

Justification

Subgroup considerations

Immunosuppressed patients, antibiotic duration

Implementation considerations

There could be other outcomes we did not look at, such as drains following out post operatively

Monitoring and evaluation

Appendix C - Evidence to Decision (EtDs) Tables

Research priorities

Randomized controlled trials, standardizing the type and size of drain used, standardizing the type and duration of post operative antibiotic therapy

REFERENCES SUMMARY

QUESTION

Should Short term postoperative antibiotics vs. long term post operative antibiotics be used for Adult patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	Adult patients undergoing appendectomy for complicated appendicitis
INTERVENTION:	Short term postoperative antibiotics
COMPARISON:	long term post operative antibiotics
MAIN OUTCOMES:	Organ space infection; Required new course of antibiotic; C diff infection; Postoperative drain placement; Hospital length of stay; Readmission; Reoperation; Total complications;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem						
Is the problem a priority?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 						
Desirable Effects						
How substantial are the desirable anticipated effects?						
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS	
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input type="radio"/> Small <input checked="" type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 					Moderate 100%	
	Outcomes	Nº of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)	
					Risk with long term post operative antibiotics	Risk difference with Short term postoperative antibiotics
	Organ space infection*	80 (1 RCT)	⊕○○○ Very low ^{a,b,c}	RR 0.63 (0.16 to 2.46)	Study population 122 per 1,000	45 fewer per 1,000 (102 fewer to 178 more)
	C diff infection*	636 (2 observational studies)	⊕○○○ Very low ^{b,d}	RR 0.14 (0.01 to 2.59)	Study population 10 per 1,000	9 fewer per 1,000 (10 fewer to 15 more)

Appendix C - Evidence to Decision (EtDs) Tables


Hospital length of stay	80 (1 RCT)	⊕⊕○○ Low ^{a,c}	-	The mean hospital length of stay was 0	MD 0.9 lower (1.65 lower to 0.15 lower)
Reoperation*	885 (2 observational studies)	⊕○○○ Very low ^{b,d,e}	OR 0.82 (0.26 to 2.62)	Study population	98 per 1,000 16 fewer per 1,000 (70 fewer to 123 more)
Total complications	80 (1 RCT)	⊕○○○ Very low ^{a,b,c}	RR 0.61 (0.27 to 1.40)	Study population	293 per 1,000 114 fewer per 1,000 (214 fewer to 117 more)
<p>a. "Allocation to the short treatment group was violated in seven (17.9%) cases where antibiotic therapy was extended by the treating physician."</p> <p>b. The confidence interval of this outcome is non-significant.</p> <p>c. This outcome is based on one study with an N= 80.</p> <p>d. This outcome had a fragility index of 0.</p> <p>e. This outcome includes data from studies rated high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the intervention and comparison arms.</p>					

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																											
<input type="radio"/> Large <input type="radio"/> Moderate <input type="radio"/> Small <input checked="" type="radio"/> Trivial <input type="radio"/> Varies <input type="radio"/> Don't know	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>No of participants (studies) Follow-up</th> <th>Certainty of the evidence (GRADE)</th> <th>Relative effect (95% CI)</th> <th>Anticipated absolute effects* (95% CI)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td> <table border="1"> <tr> <th>Risk with long term post operative antibiotics</th> <th>Risk difference with Short term postoperative antibiotics</th> </tr> </table> </td> </tr> </thead> <tbody> <tr> <td>Required new course of antibiotic</td> <td>80 (1 RCT)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>RR 1.05 (0.23 to 4.90)</td> <td>Study population 73 per 1,000 4 more per 1,000 (56 fewer to 285 more)</td> </tr> <tr> <td>Postoperative drain placement</td> <td>80 (1 RCT)</td> <td>⊕○○○ Very low^{a,b,c}</td> <td>RR 1.05 (0.16 to 7.10)</td> <td>Study population 49 per 1,000 2 more per 1,000 (41 fewer to 298 more)</td> </tr> <tr> <td>Readmission*</td> <td></td> <td></td> <td></td> <td>Study population</td> </tr> </tbody> </table>	Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)					<table border="1"> <tr> <th>Risk with long term post operative antibiotics</th> <th>Risk difference with Short term postoperative antibiotics</th> </tr> </table>	Risk with long term post operative antibiotics	Risk difference with Short term postoperative antibiotics	Required new course of antibiotic	80 (1 RCT)	⊕○○○ Very low ^{a,b,c}	RR 1.05 (0.23 to 4.90)	Study population 73 per 1,000 4 more per 1,000 (56 fewer to 285 more)	Postoperative drain placement	80 (1 RCT)	⊕○○○ Very low ^{a,b,c}	RR 1.05 (0.16 to 7.10)	Study population 49 per 1,000 2 more per 1,000 (41 fewer to 298 more)	Readmission*				Study population	Trivial 83% Small 17%
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Readmission*				Study population																									

Appendix C - Evidence to Decision (EtDs) Tables

	80 (1 RCT)	 Very low ^{a,b,c}	RR 1.05 (0.23 to 4.90)	73 per 1,000	4 more per 1,000 (56 fewer to 285 more)	
<p>a. "Allocation to the short treatment group was violated in seven (17.9%) cases where antibiotic therapy was extended by the treating physician."</p> <p>b. The confidence interval of this outcome is non-significant.</p> <p>c. This outcome is based on one study with an N= 80.</p>						

Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input checked="" type="radio"/> Very low <input type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies 		Very low 100%

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Important uncertainty or variability <input type="radio"/> Possibly important uncertainty or variability <input checked="" type="radio"/> Probably no important uncertainty or variability <input type="radio"/> No important uncertainty or variability 		Probably no important uncertainty or variability 83% Possibly important uncertainty or variability 17%

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input checked="" type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know 		Favors the intervention 83% Probably favors the intervention 17%

Acceptability

Is the intervention acceptable to key stakeholders?

Appendix C - Evidence to Decision (EtDs) Tables

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Yes 100%
Feasibility Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Yes 83% Probably yes 17%

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input type="radio"/>	Conditional recommendation for either the intervention or the comparison <input type="radio"/>	Conditional recommendation for the intervention <input checked="" type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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100%

CONCLUSIONS

Recommendation

Appendix C - Evidence to Decision (EtDs) Tables

Justification

Subgroup considerations

immunocompromised

Implementation considerations

patient education, physician education (ID, primary care physicians, hospitalists)

Monitoring and evaluation

monitoring infection rate/readmission rate

Research priorities

specifying how short a course is acceptable/efficacious

REFERENCES SUMMARY

QUESTION

Should Short term postoperative antibiotics vs. long term post operative antibiotics be used for Pediatric patients undergoing appendectomy for complicated appendicitis?	
POPULATION:	Pediatric patients undergoing appendectomy for complicated appendicitis
INTERVENTION:	Short term postoperative antibiotics
COMPARISON:	long term post operative antibiotics
MAIN OUTCOMES:	Organ space infection; Required new course of antibiotics; C diff infection; Postoperative drain placement; Hospital length of stay; Readmission; Reoperation;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																									
Is the problem a priority?																									
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																							
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Appendix C - Evidence to Decision (EtDs) Tables

Required new course of antibiotics	179 (1 observational study)	⊕○○○ Very low ^{a,b,c}	OR 0.93 (0.45 to 1.94)	207 per 1,000	12 fewer per 1,000 (102 fewer to 129 more)
C diff infection*	686 (1 RCT)	⊕⊕○○ Low ^{a,b}	RR 0.64 (0.18 to 2.25)	Study population	
				18 per 1,000	6 fewer per 1,000 (15 fewer to 22 more)
Postoperative drain placement	1010 (3 observational studies)	⊕○○○ Very low ^{a,b,c,d,e}	OR 0.75 (0.52 to 1.09)	Study population	
				148 per 1,000	33 fewer per 1,000 (65 fewer to 11 more)
Hospital length of stay	788 (2 RCTs)	⊕⊕○○ Low ^a	-	The mean hospital length of stay was 0	MD 0.33 lower (4.03 lower to 3.38 higher)
Readmission*	686 (1 RCT)	⊕⊕○○ Low ^{a,b}	RR 0.44 (0.21 to 0.91)	Study population	
				65 per 1,000	37 fewer per 1,000 (52 fewer to 6 fewer)
<p>a. The confidence interval for this outcome is non-significant.</p> <p>b. The fragility index for this outcome is 0.</p> <p>c. This study was rated unclear risk of bias on the Newcastle Ottawa scale due to lack of information about follow up.</p> <p>d. This outcome includes results from studies rated high risk of bias on the Newcastle Ottawa scale due to concerns over comparability of the two groups.</p> <p>e. This outcome includes results from studies rated high risk of bias on the Newcastle Ottawa scale due to concerns over their selection criteria.</p>					

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																		
<ul style="list-style-type: none"> ○ Large ○ Moderate ● Small ○ Trivial ○ Varies ○ Don't know 	<table border="1"> <thead> <tr> <th>Outcomes</th> <th>№ of participants (studies) Follow-up</th> <th>Certainty of the evidence (GRADE)</th> <th>Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <th>Risk with long term post operative antibiotics</th> <th>Risk difference with Short term postoperative antibiotics</th> </tr> </thead> <tbody> <tr> <td>Reoperation</td> <td>686 (1 RCT)</td> <td>⊕⊕○○ Low^{a,b}</td> <td>RR 6.72 (0.35 to 129.62)</td> <td>Study population 0 per 1,000</td> <td>0 fewer per 1,000 (0 fewer to 0 fewer)</td> </tr> </tbody> </table> <p>a. The confidence interval for this outcome is non-significant.</p>	Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)						Risk with long term post operative antibiotics	Risk difference with Short term postoperative antibiotics	Reoperation	686 (1 RCT)	⊕⊕○○ Low ^{a,b}	RR 6.72 (0.35 to 129.62)	Study population 0 per 1,000	0 fewer per 1,000 (0 fewer to 0 fewer)	<p>Small 83%</p> <p>Trivial 17%</p>
Outcomes	№ of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																
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Appendix C - Evidence to Decision (EtDs) Tables

	<p>b. The fragility index for this outcome is 0.</p>	
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Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ● Very low ○ Low ○ Moderate ○ High ○ No included studies 		<p>very low 100%</p>

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 		<p>Probably no important uncertainty or variability 83% Possibly important uncertainty or variability 17%</p>

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Favors the comparison ○ Probably favors the comparison ○ Does not favor either the intervention or the comparison ● Probably favors the intervention ○ Favors the intervention ○ Varies ○ Don't know 		<p>Probably favors the intervention 100%</p>

Acceptability

Is the intervention acceptable to key stakeholders?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS

Appendix C - Evidence to Decision (EtDs) Tables

<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Yes 100%
Feasibility Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know		Yes 100%

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input type="radio"/>	Conditional recommendation for either the intervention or the comparison <input type="radio"/>	Conditional recommendation for the intervention <input checked="" type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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100%

CONCLUSIONS

Recommendation

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Justification

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immunocompromised

Implementation considerations

patient education, physician education (ID, primary care physicians, hospitalists)

Monitoring and evaluation

monitoring infection rate/readmission rate

Research priorities

specifying how short a course is acceptable/efficacious

Appendix C - Evidence to Decision (EtDs) Tables

REFERENCES SUMMARY

QUESTION

Should Interval appendectomy vs. observation be used for adults with complicated appendicitis?	
POPULATION:	adults with complicated appendicitis
INTERVENTION:	Interval appendectomy
COMPARISON:	observation
MAIN OUTCOMES:	Death; Length of stay; Return to OR short term <30d; Return to OR long term >30d; Abscess; Drain; Malignancy;
SETTING:	
PERSPECTIVE:	
BACKGROUND:	
CONFLICT OF INTERESTS:	

ASSESSMENT

Problem																														
Is the problem a priority?																														
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS																									
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 																														
Desirable Effects																														
How substantial are the desirable anticipated effects?																														
JUDGEMENT	RESEARCH EVIDENCE				ADDITIONAL CONSIDERATIONS																									
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input type="radio"/> Small <input type="radio"/> Moderate <input checked="" type="radio"/> Large <input type="radio"/> Varies <input type="radio"/> Don't know 	<p>Adult malignancy rate: Interval appendectomy 14% (CI 8%-22%) based on 7 studies. I2 77% Observation 10% (CI 1%-67%) based on 2 studies. I2 98%</p> <p>Reoperation short term <30d Interval appendectomy 2% (CI 1%-5%) based on 4 studies. Observation 3% (CI 0%-23%) based on 3 studies. I2 74%</p> <table border="1"> <thead> <tr> <th rowspan="2">Outcomes</th> <th rowspan="2">No of participants (studies) Follow-up</th> <th rowspan="2">Certainty of the evidence (GRADE)</th> <th rowspan="2">Relative effect (95% CI)</th> <th colspan="2">Anticipated absolute effects* (95% CI)</th> </tr> <tr> <th>Risk with observation</th> <th>Risk difference with Interval appendectomy</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Death</td> <td rowspan="2">170 (1 observational study)</td> <td rowspan="2">⊕○○○ Very low^{a,b}</td> <td rowspan="2">OR 0.14 (0.01 to 2.63)</td> <td colspan="2">Study population</td> </tr> <tr> <td>47 per 1,000</td> <td>40 fewer per 1,000 (47 fewer to 68 more)</td> </tr> <tr> <td rowspan="2">Return to OR short term <30d</td> <td rowspan="2">52 (1 RCT)</td> <td rowspan="2">⊕⊕○○ Low^b</td> <td rowspan="2">RR 0.36 (0.02 to 8.43)</td> <td colspan="2">Study population</td> </tr> <tr> <td>37 per 1,000</td> <td>24 fewer per 1,000</td> </tr> </tbody> </table>				Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)		Risk with observation	Risk difference with Interval appendectomy	Death	170 (1 observational study)	⊕○○○ Very low ^{a,b}	OR 0.14 (0.01 to 2.63)	Study population		47 per 1,000	40 fewer per 1,000 (47 fewer to 68 more)	Return to OR short term <30d	52 (1 RCT)	⊕⊕○○ Low ^b	RR 0.36 (0.02 to 8.43)	Study population		37 per 1,000	24 fewer per 1,000		
Outcomes	No of participants (studies) Follow-up	Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																										
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Appendix C - Evidence to Decision (EtDs) Tables

					(36 fewer to 275 more)
Return to OR long term >30d*	52 (1 RCT)	⊕⊕⊕⊕ High ^c	RR 0.03 (0.00 to 0.43)	Study population	
				704 per 1,000	683 fewer per 1,000 (704 fewer to 401 fewer)
Neoplasm*	52 (1 RCT)	⊕⊕○○ Low ^{c,d}	RR 0.36 (0.11 to 1.18)	Study population	
				333 per 1,000	213 fewer per 1,000 (297 fewer to 60 more)
<p>a. The included study was rated high risk of bias on the Newcastle Ottawa scale due to concerns over the comparability of the two groups.</p> <p>b. This outcome had a low event rate and is very fragile.</p> <p>c. This outcome was underpowered.</p> <p>d. This outcome's confidence interval crosses from meaningful harm to meaningful benefit.</p>					

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS																														
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Outcomes	№ of participants (studies) Follow-up					Certainty of the evidence (GRADE)	Relative effect (95% CI)	Anticipated absolute effects* (95% CI)																								
		Risk with observation	Risk difference with Interval appendectomy																													
Length of stay	29 (1 observational study)	⊕○○○ Very low ^{a,b,c}	-	The mean length of stay was 0	MD 0.33 higher (3.41 lower to 4.07 higher)																											
Abscess	52 (1 RCT)	⊕⊕○○ Low ^{b,c}	RR 3.23 (0.14 to 75.83)	Study population																												
				0 per 1,000	0 more per 1,000 (0 fewer to 0 fewer)																											
Drain	52 (1 RCT)	⊕⊕○○ Low ^{c,d}	RR 3.23 (0.14 to 75.83)	Study population																												
				0 per 1,000	0 more per 1,000 (0 fewer to 0 fewer)																											

Appendix C - Evidence to Decision (EtDs) Tables

<h3>Certainty of evidence</h3> <p>What is the overall certainty of the evidence of effects?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> Very low <input checked="" type="radio"/> Low <input type="radio"/> Moderate <input type="radio"/> High <input type="radio"/> No included studies		100% low
<h3>Values</h3> <p>Is there important uncertainty about or variability in how much people value the main outcomes?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> Important uncertainty or variability <input type="radio"/> Possibly important uncertainty or variability <input type="radio"/> Probably no important uncertainty or variability <input checked="" type="radio"/> No important uncertainty or variability		Considerations – some patients may be more concerned about recurrent disease or risk of malignancy
<h3>Balance of effects</h3> <p>Does the balance between desirable and undesirable effects favor the intervention or the comparison?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<input type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input checked="" type="radio"/> Favors the intervention <input type="radio"/> Varies <input type="radio"/> Don't know		
<h3>Equity</h3> <p>What would be the impact on health equity?</p>		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS

Appendix C - Evidence to Decision (EtDs) Tables

<ul style="list-style-type: none"> <input type="radio"/> Reduced <input type="radio"/> Probably reduced <input type="radio"/> Probably no impact <input type="radio"/> Probably increased <input type="radio"/> Increased <input type="radio"/> Varies <input type="radio"/> Don't know 		Un or underinsured patients who cannot get an interval appendectomy covered. Access to colonoscopy post appendicitis. Further imaging scans.
Acceptability		
Is the intervention acceptable to key stakeholders?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input checked="" type="radio"/> Probably yes <input type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		
Feasibility		
Is the intervention feasible to implement?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 		

SUMMARY OF JUDGEMENTS

	JUDGEMENT						
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention		Favors the intervention	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Appendix C - Evidence to Decision (EtDs) Tables

Strong recommendation against the intervention ○	Conditional recommendation against the intervention ○	Conditional recommendation for either the intervention or the comparison ○	Conditional recommendation for the intervention ●	Strong recommendation for the intervention ○
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CONCLUSIONS

Recommendation

Justification

Subgroup considerations

All neoplasms from the RCT were found in patients aged 40 and older-> would be more likely to operate with increasing age.
Frail or high-risk operative candidates -> need to weigh risk benefit of taking such a patient to the OR if they have little anticipated survival.
More likely to recommend operation in patients with personal or family history of colorectal or gastrointestinal cancer.

Implementation considerations

Monitoring and evaluation

Long term outcomes in younger patients who are managed with continued expectant management.

Research priorities

Long term outcomes in younger patients who are managed with continued expectant management.

Appendix C - Evidence to Decision (EtDs) Tables

REFERENCES SUMMARY

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