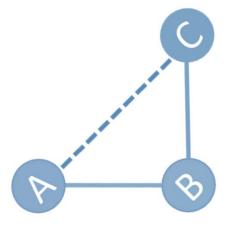


Learning from Systematic Review and Network meta-analysis (NMA)

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Ramathibodi International Academic Conference (RIAC) 2018
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At Marriott Marquis Bangkok Queen's Park



Network meta-analysis of antibiotic prophylaxis for prevention of surgical-site infection after groin hernia surgery

T. Boonchan^{1,3}, C. Wilasrusmee², M. McEvoy⁴, J. Atria⁴ and A. Thakkinstian⁵

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Correspondence: Dr. A. Tabakhansan, Section for Clinical Epidemiology and Economics, Faculty of Medicine, Rumabilised Herpital, 270 Rama VI.

Rosel, Fachners, Bangluis 19490, Thulland (contail: monatrin.thusbrochhidol.ac.ch., 39 ast balkenneur; 36 R. Ramabilised)

und: First-generation cephalosporins (such as cefatolin) are recommended as antihoric pro-Background: Errst-generation cephalosporins (such as cefatolin) are recommended as antifixotic pro-phylaris to grein hernia repair, but other broad-spectrum antifixotics have also been prescribed in tiraled paractics. This was a systematic review and network meta-analysis; to creature the efficacy of different

phylaxis in groin bernia repais, but other broad-spectrum antibiotics have also been prescribed in clinical practice. This was a systematic review and network meta-analysis to compare the efficacy of different antibiotic clusters for oversention of survival-site infection (NSR) after bernia renair. antihiotic classors for precention of surgical-site infection (SSI) after hertia repair.

Mothods: RCTs were identified that compared efficacy of antihiotic prophylaxis on SSI after inguinal methods: RCTs were identified that compared efficacy of antihiotic prophylaxis on SSI after inguinal methods: RCTs were identified that compared efficacy of antihiotic prophylaxis on SSI after inguinal methods. The compared that the support of antihiotic prophylaxis on SSI after hertia required to the compared to the practice. This was a systematic review and network meta-malysis to compare the antihiotic classes for prevention of surgical-site infection (SSI) after hernia repair. Movibods: RCT's were identified that compared efficacy of antihoric prophylasis on SSI after inguinal or femoral hernia repair from PubMed and Scopus darabases up to March 2016. Data were extracted independently by two reviewers. Network meta-analysis was applied to assess treatment efficient. The

independently by two reviewers. Network meta-analysis was applied to assess treatment efficacy. The probability of being the best ambioric prophylaxis was estimated using surface under the cumulative mation report SCENIA analysis.

anking curve (SUCRA) analysis.

**Subtract Prices RCTs (\$159 patients) mer the inclusion effects. Interventions were first-generation.

PRICE 1217 resistants and anaestal-anaestants** (2 RCTs \$22) combalancements.

RCTs \$227 resistants and anaestal-anaestants**. Results: Ffrcen RCTs (5139 patients) mer the inclusion criteria. Interventions were first-generation of RCTs (5139 patients) and second-generation (2 RCTs, 523) cephalospeciats, B-lacramily-lacramate (2 RCTs, 523) cephalospeciats, B-lacramily-lacramate (2 RCTs, 523) cephalospeciats, B-lacramily-lacramate (3 RCTs, 523) cephalospeciats, B-lacramily-lacramate (3 RCTs, 523) cephalospeciats, B-lacramily-lacramate (3 RCTs, 523) cephalospeciats, B-lacramily-lacramate (4 RCTs, 523) cephalospeciats, B-lacramily-lacramate (5 RCTs, 523) cephalospeciats, B-lacramate (5 RCTs, 523) cephalospeciats, B-lacramate (5 RCTs, 523) cephalospeciats, B-lacramate (5 RCTs, 523) cephalo 7 RCTs, 1237 parients) and second-generation (2 RCTs, 532) cephalosporins, β-lactamiβ-lactamase inhibitors (6 RCTs, 619) and fluorosquindones (2 RCTs, 58), with placebo as the most common the DPTC, 5100. inhibitors (6 RCTs, 619) and fluorosquinolosus (2 RCTs, 381), with placelos as the most common comparator (14 RCTs, 2190). A network neta-analysis showed that p-factangle-lateranase inhibitors and fire-operators (14 RCTs, 2190). A network neta-analysis showed that p-factangle-lateranase inhibitors and fire-operators are shown as the showed that p-factangle-lateranase inhibitors and fire-operators are shown as the shown of the show comparator (14 RUTs, 2190). A network meta-analysis showed that p-factant@-lacramase inhibitors and first-generation explainoporrins were significantly superior to placebo, with a pooled risk ratio of 0.44 (9.5 and 0.75) and 0.67 (0.47 to 0.75) and 0.67 (0.47 to 0.75) and 0.67 (0.47 to 0.47 to first-generation expladeoportins were significantly superior to placebo, with a pooled risk ratio of 0.44 (9.5 m) per cent c.l. 0.25 to 0.75 and 0.62 (0.42 to 0.92) respectively. However, none of the surficient answering the surfice of the surfic Ner cest, c.l. 9.25 to 9.75) and 9.62 (0.42 to 0.92) respectively. However, more of the antibiotic classes was significantly different from the others. SUCRA results indicated that \$\theta\$-factami@blactamase inhibitors and the others are constructed from and appeared reconceptions for hear according to the contraction make according to the contraction of the contraction make according to the contraction of t

significantly different from the others. SUCRA results indicated that \$\tilde{\theta}\$-dectam@-lactamase inhib.

First generation cephalosporins were ranked first and second respectively for best prophylation.

Figure 1. Lactange 1. L neration cephalosporins were ranked first and second respectively for best prophysics.

Store F-1 actum/f-1-actumes: inhibitors followed by first-generation cephalosporins ranked as the first-generation ceptalosporins are ranked as the first-generation ceptalosporins are ranked as the first-generation ceptalosporins. Conclusion: § 3 actum/f-lacramase inhibitors tollowed by tirst-generation cephal most effective SSI prophylaxis for adult partients undergoing groin bettils repair.

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published ordine in Wiley Ordine Library (ware bije.co.uk). DOI: 10.1002/bije.10441

Inguinal and remoral between account for around 70 - 75 per angumas and return to me times account the account of all bernia operations. The rate of hemia repair is cent or an merina operations. The LIK and 58 bet 100 000 in ten per trouver population in the U.S.A. (Groin hernis repairs can be performed as either the U.S.A.). open or laparoscopic procedures, with or without the use of open or suparoscopic procedures, with or without the use of a prosphetic mesh, termed herntoplasty and herntorthaphy a prosmeur mesa, termeu nemuopuscy ami ueranottrajony respectively. Although heraia repair is considered a clean procedure, the postoperative wound infection tree is higher procedure, the postoperative would unconstitute is night;
than expected for other clean procedures, approximately. chain expected for other cicali procedures, approximately 4–5 per cem³. The most common pushogen is Staphylo-

ORERS SHIFTERD Ambiotic prophylaxis is therefore recommended in amonoric prophysius is increase recommended in many guidelines, particularly for reducing infection risk when prosthetic material is employed. 7. The

prophylactic efficacy of different auribiosis classes has propayment emercy or americal autopool, cases mea-been studied, including first-generation (such as cephalorioeen soumes, incruming riss-generation (such as coponions of the celebration), second-generation (celurosine) and unie, certeonai, sevanti-generation (celonicid, celonicide) cephalosporins, nura-generatora (cetomica, ceroatime) cepasiosporias, p-lactan/p-lacianase inhibitors (amoxicilin-clavidanie poucumo y automora (signatumo (si асій, апцисціпі—значаствіц это пагатършноватез терато Вохасіп, levofloxacin)^{8—21}, Fira-generation серілісь sporins are the most commonly recommended for several ressons (cost, tolerability, efficacy, safety and acceptable pharmsQskinetics.45), but other classes are being used

increasingly in cuincia practice.

The efficacy of antilinoic prophylaxis in hermoplasty increasingly in clinical practice 16,27 the ethousy of annunous prophysics in occumination remains controversial, and some surgeons still feel that antibiotic prophylaxis is not necessary, even for proceanumous: propulytases to not necessary, even on proce-dures with a mesh. Results of previous systematic reviews

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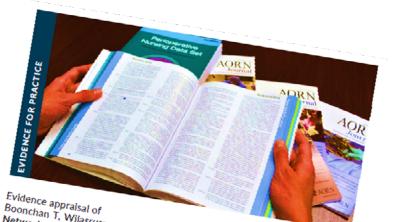
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Our NMA

 Network meta-analysis of antibiotic prophylaxis for prevention of surgical-site infection after groin hernia surgery. BJS 2017;104(2):e106-e17.

CRD42015025398



Boonchan T, Wilasrusmee C, McEvoy M, Attia J, Thakkinstian A. Network meta-analysis of antibiotic prophylaxis for prevention of surgical-site infection after groin hernia surgery. Br J Surg. 2017;104(2):e106-e117. doj:10.1002/bjs.10441.

Appraisal

Editor's note: Reading research and incorporating valid research results into practice is a vital part of ensuring that perioperative nursing practice is evidence based. The ACRN Research Evidence Appraisal Tools can help perioperative nurses evaluate research. There are three tools for evaluation of the different types of evidence: the Research Evidence Appraisal Tool-Study, the Research Evidence Appraisal Tool-Summary, and the Non-Research Evidence Appraisal

Tool, These tools are used to evaluate the existence upon which AORN's guidelines are based. The tools can be used to appraise the level of evidence and quality of evidence for a single research study, a summary of multiple research studies, or nonvescorch evidence. Each section of the fool is discussed to help readers understand why the study received o particular appraisal score and what that rating means to perioperative nursing practice. Clinical judgment should be used to determine whether the findings of an individual study are of value and relevance in a particular setting or patient cdre situation, individuals intending to put this study's findings into practice are encouraged to review the original article to http://doi.org/10.1002/som.12011

n the United States, hernia repair may be performed as either an open or alaparoscopic procedure with or without mesh (le, hemioplasty and hemiorrhaphy, respectively). Although hemis repair is concidered a clean procedure, its rate of surgical site infection (SSI) is higher than expected when compared with other clean surgical procedures (eg. breast surgery, orthopedic surgery). Many of the guidelines (eg. the Centers for Disease Control and Prevention and Hospital Infection Control Practices Advisory Committee guidelines for the prevention of \$5(s) recommend antibiotic prophylaxis for reducing infection risk, especially when employing prosthetic material such as mesh. Researchers have coucled the efficacy of different antibiotic classes, with first-generation cephalosporins being the most commonly recommended for reasons related to cost, tolerability, efficacy, safety, and acceptable pharmacokinetics, although other classes of ambiotics are increasingly being used in clinical practice. However, the efficacy of antibiotic prophylaxis in hemioplasty remains controversial. Some curgeons continue to believe that antibiotic prophylaxis is not necessary, even for procedures in which mesh is used.

Evidence Appraisal Score: ΙB

A score of I B:

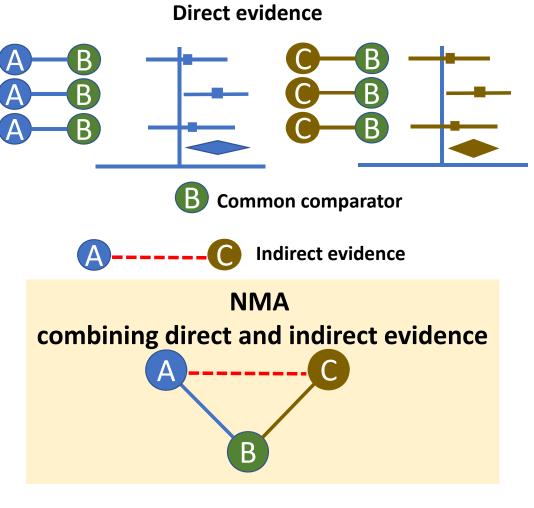
The results of this meta-analysis are appropriate for perioperative nurses to use in guiding their practice.

https://aornjournal.onlinelibrary.wiley.com/doi/epdf/10.1002/aorn.12011

Why NMA?

NMA

- To make treatment estimates for an entire treatment <u>network</u> instead of scanning each individual pair-wise comparison
- To give the "<u>full picture</u>" to clinicians
- Gain precision by considering all available evidence, not just A vs. B or B vs C comparisons.
- Potential to more explicitly <u>"rank"</u> treatments using summary outputs





PRISMA Extension for NMA#3 Rationale

"Mention of why a network meta-analysis has been conducted"

First-generation cephalosporins (Cefazolin) are the most commonly recommended

But higher generation of antibiotics are being used increasingly in clinical practice.

No direct evidences of RCTs that compared between different antibiotics.

Conventional meta-analyses was unable to answer which antibiotic class is the best.

Learning from NMA

Preparation phase

Conducting phase

Publication phase

Team forming

Assessing the Feasibility of Conducting a NMA

Analysis Plan

NMA registration

Searching

Risk bias assessment

Analysis and Interpretation

Submission preparation

Journal selection

Submission

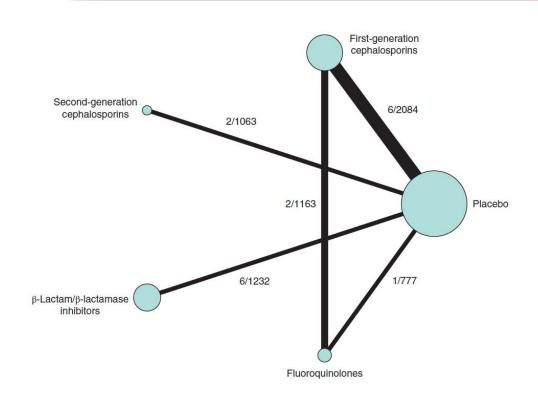
Team forming

- **Both experts in clinical therapeutic and statistic fields**
- Risk bias assessment/data extraction should be performed independently by 2 individuals who expertise the clinical therapeutic
- To make unbiased consensus by the third party, the third party should be blinded from the differences results assessed by the 2 individuals.
- ☑ Clearly discuss role and responsibilities
- **☑** Clearly discuss timeline

Should be performed

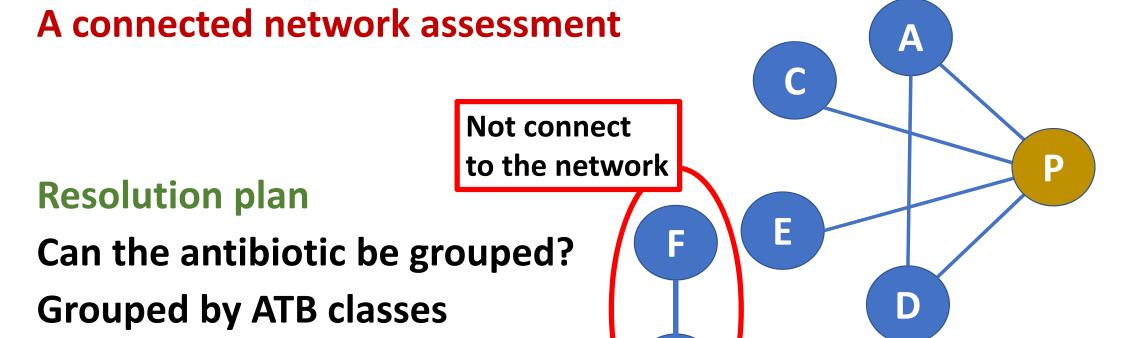
 to determine whether the NMA is feasible.

 to identify the clinical and statistical assumptions required to conduct the NMA.



Key

- A connected network
- The RCT are suitable for comparison : Homogeneous to facilitate reliable comparison
- Report data on common outcome
- Interested outcome was available in each RCT
- Sufficient data for comparison



Key of NMA: the studies do not differ in any characteristics that may influence the size of prophylaxis effect.

Similarity of the studies assessment: 4 elements

- **☑** Quality of methods employed to conducting RCT Risk/Bias Assessment and Sensitivities analysis
- ✓ Confounding factors in relation to participant population
 Get clinical input to determine inclusion/exclusion, data extraction
- ✓ Similarity of prophylaxis (common reference and intervention)
 Frequency, dose
- **☑** Similarity of outcomes and outcome measures

Key of NMA: Useable data for the interested outcome

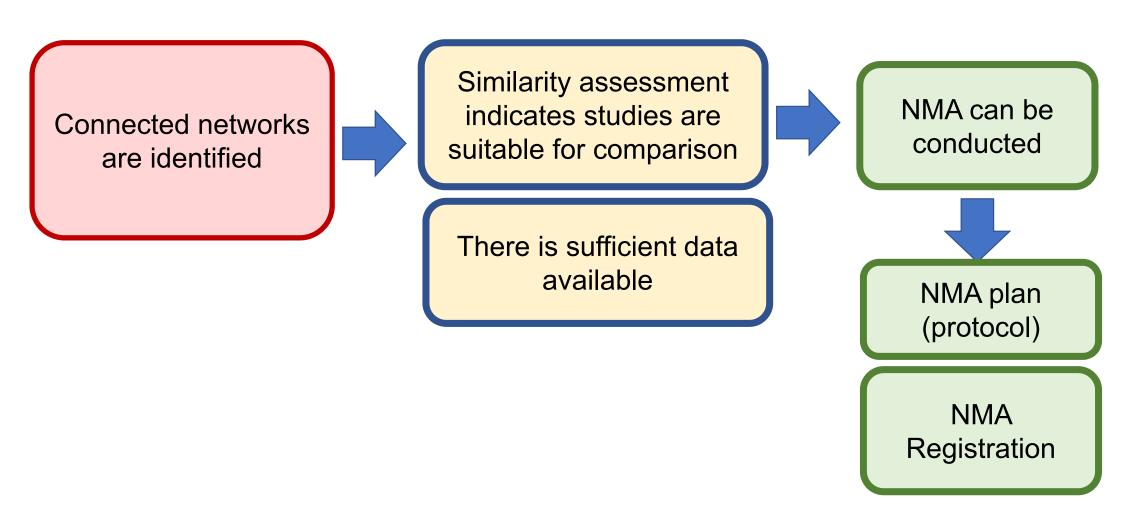
Data required for binary outcomes

- **☑** Number of patients in each prophylaxis treatment arm
- **✓** Number of patients or proportion of patients experiencing the "event of interest"

Example: Some studies were not clearly reported "number of interested event" but report in percent (%) without statement what is the <u>denominator</u>.

Number of patients randomized into the treatment arm at beginning OR number of patient at the end of the RCT flow chart

Can we conduct an NMA?



NMA registration

Registration of systematic reviews: PROSPERO

Why

- Helps minimize bias in the conduct and reporting of the review –
- Reduce duplication of effort between groups
- Keep systematic reviews updated
- To comply with the PRISMA-NMA #5
- Supported by PLoS journals, BMJ and BMJ Open, BioMed Central Cochrane Collaboration, and BJOG journals' Editorial Board.

NMA registration

Trick and Tips

Check the standard PROSPERO eligibility criteria before submission to get the fast acceptance.

Performing NMA

Define the inclusion/exclusion criteria

Search and select studies

Extraction of data, Risk of bias assessment

Network building and statistical analyses

Synthesis of results

Interpretation of results and conclusions

Define the inclusion/exclusion criteria

"Study question" is important for successful publication

Key: Not able to answer by the previous available publication or conventional meta-analysis

Treatments (antibiotic classes) of the network (nodes) should be precisely defined.

Key: Ensure that the grouping is acceptable.

Follow PRISMA-NMA extension guide and recommendations (e.g. Cochrane Collaboration) to conduct the NMA.

Key: Read the guideline and recommendation before performing

Define the inclusion/exclusion criteria

PICOS – inclusion

Any RCT regardless of sample size was included if it met the following criteria: included adult patients who underwent groin hernia repair (inguinal or femoral hernia, laparoscopic or open repair) with, or without using prosthetic material; compared any systemic administration of antibiotic with antibiotic, placebo or no treatment; prophylactic antibiotics included any generation of cephalosporins, β-lactam antibiotics combined with β-lactamase inhibitors, or fluoroquinolones; and had SSI as the outcome. Studies were excluded if there were insufficient data for pooling after three failed attempts to contact the authors regarding data provision, or if they compared different doses of the same antibiotic class.

S: Study design

P: Patients with groin hernia

→ I vs C

Antibiotic vs Placebo -- or Antibiotic vs Antibiotic

- For prophylaxis
- Systemic ATB

O: SSI

Define the inclusion/exclusion criteria

Exclusion – (limitation)

as the outcome. Studies were excluded if there were insufficient data for pooling after three failed attempts to contact the authors regarding data provision, or if they compared different doses of the same antibiotic class.

Search and select studies

Ensure that the search is **broad enough**.

Search terms for the PICO.

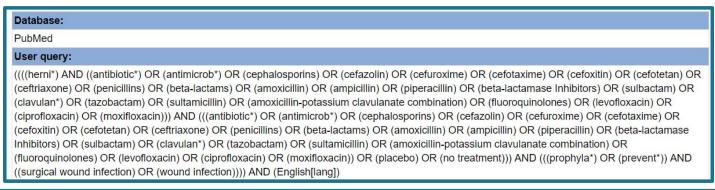
- Patient: herni*;
- Intervention: antibiotic*, antimicrob*, Cephalosporins, Cefazolin, Cefuroxime, Cefotaxime, Cefoxitin, Cefotetan, Ceftriaxone, Penicillins, Beta-lactams, Amoxicillin, Ampicillin, Piperacillin, Beta-lactamase Inhibitors, Sulbactam, Clavulan*, Tazobactam, Sultamicillin, Amoxicillin—potassium clavulanate combination, Fluoroquinolones, Levofloxacin, Ciprofloxacin, Moxifloxacin;
- <u>C</u>omparator: placebo, no treatment;
- Outcome: prophyla*, prevent*, surgical wound infection, wound infection

Clearly define cutoff date (up to 23 March 2016)
Clearly define Databases (PubMed, Scopus)

Search and select studies

Tricks and Tips

- Don't forget to save final "search query" for publication





Data extraction

Clearly describe method of data extraction

- 2 person, Independently
- 3rd personconsensus for disagreement

Clearly define what data will be extracted

Table 1 Characteristics of included RCTs

				SSI		Follow-up
Reference	Antibiotic regimen	Class of antibiotic	Setting	definition	Country	(days)
Herniorrhaphy						
8	Cephaloridine 1 g single dose i.m. followed by 1 g i.m. × 2 doses <i>versus</i> no antibiotic	First-generation cephalosporins <i>versus</i> no antibiotic	Single	n.r.	UK	At least 28
9	Cefonicid 1 g i.v. <i>versus</i> placebo	Second-generation cephalosporins <i>versus</i> placebo	Multi	S/S	USA	At least 42
10	Amoxicillin-clavulanate 1.2 g i.v. <i>versus</i> placebo	β-Lactam/β-lactamase inhibitors <i>versus</i> placebo	Multi	S/S	UK	28-42
Hernioplasty						
11	Ampicillin-sulbactam 1·5 g i.v. versus placebo	β-Lactam/β-lactamase inhibitors <i>versus</i> placebo	Single	CDC	Turkey	365
12	Cefuroxime 1.5 g i.v. versus placebo	Second-generation cephalosporins <i>versus</i> placebo	Multi	CDC	The Netherlands	84

Table 2 Further details of included RCTs

Reference	No. of subjects	Mean age (years)	% men	Mean BMI (kg/m²)	ASA grade (I/II/III/IV)	% ASA grade > II	% diabetes mellitus	% resident/non- certified surgeon	Mean duration of surgery (min)
Herniorrhaphy									
8	97	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
9	612	50	90.4	24.7	n.r.	n.r.	4.0	n.r.	n.r.
10	563	57	94.7	73*	n.r.	n.r.	n.r.	n.r.	50% > 35 min
Hernioplasty									
11	269	56	92.6	25.0	198/71/0/0	0	0	n.r.	63.5
12	1008	58	96.3	n.r.	n.r.	n.r.	0	43.4	39.9
13	99	58	90	26.1	l or II	0	18	24	64.5
14	360	61	98-1	n.r.	284/76/0/0	0	n.r.	n.r.	53.1

Risk of bias assessment

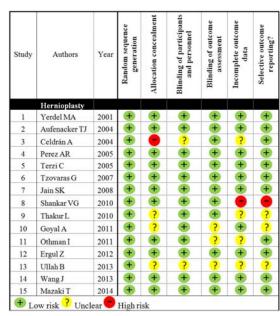
Clearly describe methodological quality and risk of bias assessment tool to preserve similarity and consistency.

Tool

Cochrane Collaboration's tool for assessing risk of bias in randomized trials

How

Two authors independently Any disagreement was resolved by discussion.



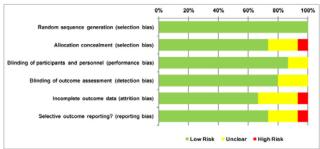


Fig. S2 Summary of risk-of-bias assessments

Network building

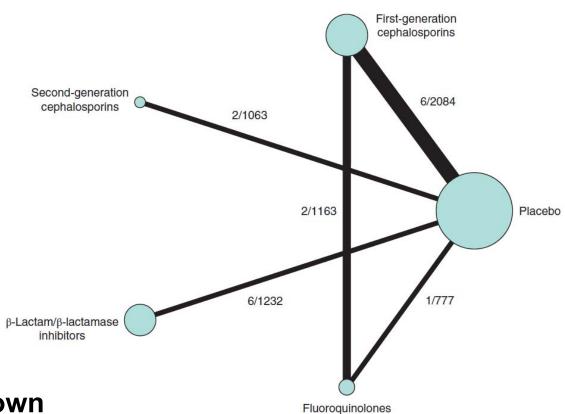
'Network plot"

Nodes:

- Interventions being compared
- Weighted by number of studies;

Edges:

- Available direct comparisons
- Weighted by numbers of included subjects



Numbers of studies/subjects are shown

Network building

'Contribution plot': presenting the influence of each direct piece of evidence

Direct comparisons in the network

		PBvs1CEP	PBvs2CEP	PBvsB-LAC	PBvsQUIN	1CEPvsQUIN
5.	Mixed estimates					
Network meta-analysis estimates	PBvs1CEP	67.7			16.2	16.2
	PBvs2CEP		100.0			
	PBvsB-LAC			100.0		
Sis	PBvsQUIN	29.5		.9.	41.0	29.5
aly	1CEPvsQUIN	28.0	*	4	28.0	44.0
an						
eta	Indirect estimates					
ہ ⊒	1CEPvs2CEP	36.8	45.6	14	8.8	8.8
WO	1CEPvsB-LAC	36.8		45.6	8.8	8.8
Net	2CEPvsB-LAC		50.0	50.0		
	2CEPvsQUIN	17.3	41.4		24.1	17.3
	B-LACvsQUIN	17.3		41.4	24.1	17.3
Entire network		23.6	23.2	23.2	15.8	14.2
Included s	tudies	6	2	6	1	2

Clearly defined the method of analysis:

Direct comparison (conventional method)

Network meta-analysis- "consistent with details submitted to PROSPERO" - if not, amend PROSPERO with reason of changes

- One-stage approach
- Two-stage approach

Network meta-analysis- Two-stage approach results were presented in **Table format**

Table 3 Comparisons of antibiotic prophylaxis effects on surgical-site infection in hernioplasty

	Risk ratio				
	First-generation cephalosporins	Second-generation cephalosporins	β-Lactam/ β-lactamase inhibitors	Fluoroquinolones	
Reference antibiotic					
First-generation cephalosporins	0.62 (0.42, 0.92)* [65.5; 11.5]	1.32 (0.55, 3.16)	0.70 (0.36, 1.38)	1.23 (0.71, 2.15)	
Second-generation cephalosporins	0.76 (0.32, 1.82)	0.82 (0.37, 1.79)* [40.7; 10.7]	0.54 (0.21, 1.39)	0.94 (0.36, 2.45)	
β-Lactam/β-lactamase inhibitors	1.42 (0.73, 2.78)	1.87 (0.72, 4.84)	0·44 (0·25, 0·75)* [91·0; 74·4]	1.75 (0.80, 3.82)	
Fluoroquinolones	0.81 (0.46, 1.42)	1.07 (0.41, 2.80)	0.57 (0.26, 1.25)	0.77 (0.44, 1.34)* [41.0; 3.4]	

Values are the risk ratio, with 95 per cent confidence intervals in parentheses, of surgical-site infection with use of test antibiotic (in column heading) versus reference antibiotic or *placebo. Values below 1.00 show benefit for test antibiotic compared with reference antibiotic. Values in square brackets are surface under the cumulative ranking curve area; percentage probability of test antibiotic being best prophylaxis.

Evaluate uncertainty - present using plots

- Inconsistency Agreement between direct and indirect treatment effects, was assessed using a designby-treatment interaction model.
- Predictive intervals were also estimated and plotted (predictive interval plots) to see the RRs after taking into account uncertainty from both heterogeneity and inconsistency.

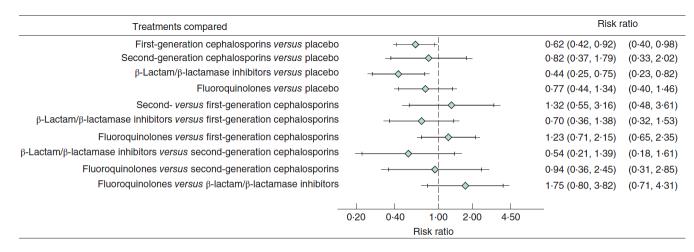


Fig. 4 Predictive interval plots for antibiotic prophylaxis network of groin hernioplasty. Values in parentheses are 95 per cent confidence intervals, followed by 95 per cent predictive intervals that take future uncertainty into account. These are also plotted as bold and extended lines respectively. The dashed line indicates no treatment effect (risk ratio = 1.00)

Ranking method

Estimated probability of being best prophylaxis using the surface under the cumulative ranking curve (SUCRA) method.

Rankograms

Graphical presentations of the ranking

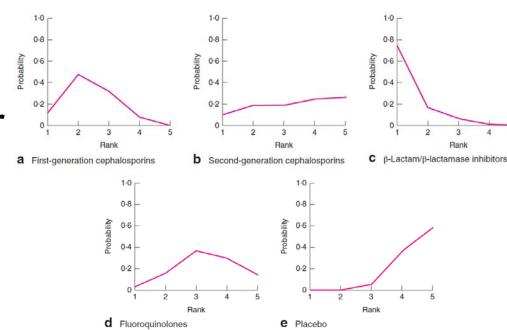


Fig. 3 Rankograms showing use of antibiotic prophylaxis for reducing surgical-site infection after hernioplasty: a first-generation cephalosporins, \mathbf{b} second-generation cephalosporins, \mathbf{c} β -lactam/ β -lactamase inhibitors, \mathbf{d} fluoroquinolones and \mathbf{e} placebo

A number needed to treat (NNT) was estimated

to more easy to understand by reader and to summary at the end.

$$NNT = \frac{1}{I_{\text{placebo}} \times (1 - \text{pooled RR})}$$

The pooled SSI incidence in the placebo group was 6.1% (95% CI 4.2 to 8.1)

The estimated NNTs

1st Gen cephalosporins: 43 (95% CI 28 to 202)

 β -lactam/β-lactamase inhibitors : 29 (95% CI 21 to 66)

Publication phase- Tricks and Tips

Read "SCOPE" of the journal - Is your topic in the journal scope?

Read author information in the interested journal

- Word and reference limits
- Number of tables & figures for publication in print Select the key table and Figures – See PRISMA-NMA

Read previously NMA published in the journal to explore the format

Write: PRISMA for Network Meta-Analyses (PRISMA-NMA) – Follow the guideline step by step.

