

_evel	Intervention	Prognosis	Diagnosis	Etiology
Least biased I	Systematic Review of level II studies	Systematic Review of Level II studies	Systematic Review of Level II studies	Systematic Review of Level II studies
П	RCT	Inception cohort study	Cross sectional study among consecutive patients	Prospective cohord study
III	Non-randomized controlled clinical trial Controlled before and after study Cohort study Case control study	•Untreated controls in an RCT •Retrospectively assembled cohort study	•Cross sectional study among non- consecutive patients •Case control study	•Retrospective cohort study •Case control stud
Most biased IV	Case series	Case series	Case series Cohort of patients at different stages of disease	Cross sectional study

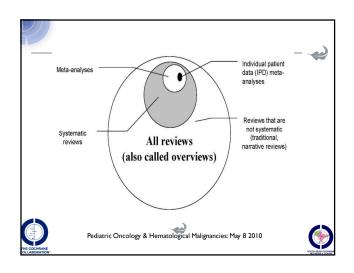
What is the difference between a systematic review and meta-analysis?

- The application of scientific strategies that limit bias to the systematic assembly, critical appraisal, and synthesis of all relevant studies on a specific topic
- Many (not all) systematic reviews use meta analysis to synthesize data
- Meta-analysis is the statistical technique used to combine the results of several independent studies that are similar in the methods, populations studied, interventions and outcomes

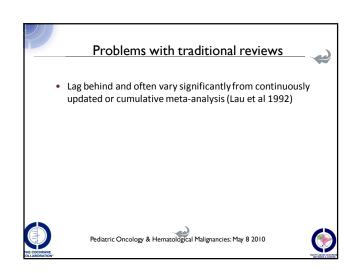


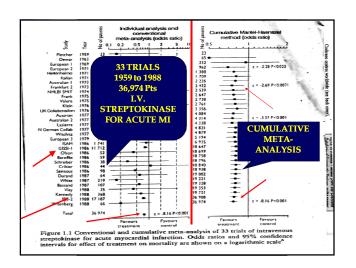
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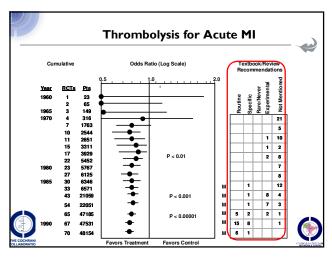


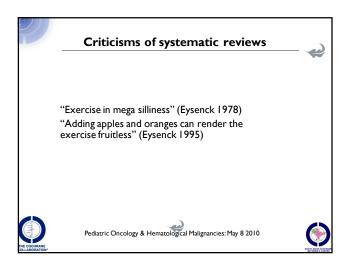


Narrative Review	Systematic Review	
No Methods section; not reproducible	Clearly described protocol with detailed methods	
Limited searching for trials (often limited to Medline);leads to 'publication bias'	Comprehensive searching for published and unpublished trials with no language restrictions	
Include different study designs, often do not evaluate validity	Mostly include only RCTs or next best study design; evaluates validity	
Over-reliance on p values	Estimates size of effect with confidence intervals (precision)	
Uses 'vote counting'; each trial given same weight	Differentially weights trials so that larger trials with more information and precise results are given more weight	
Descriptive	Meta-analysis pools results of similar trials; provides a 'tower of power'	
Subjective; Biased	Objective (two or more authors who independently undertake review)	

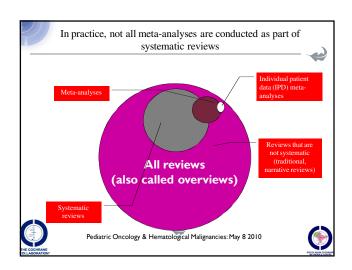


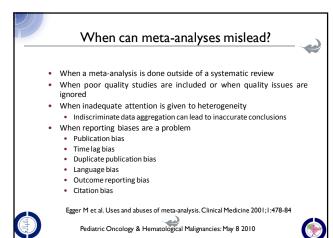




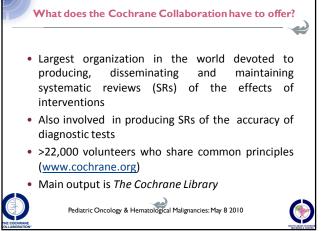


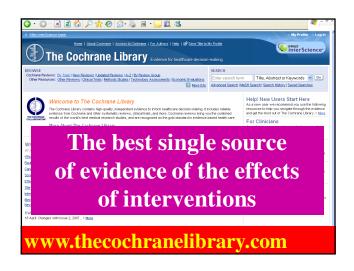




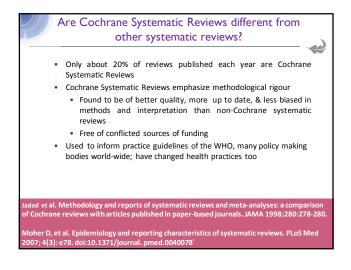


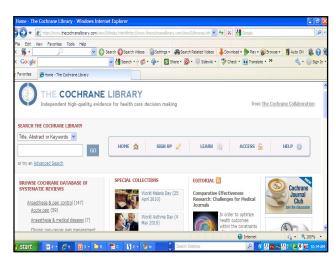


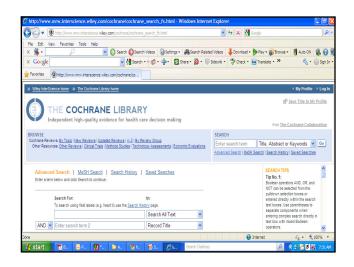




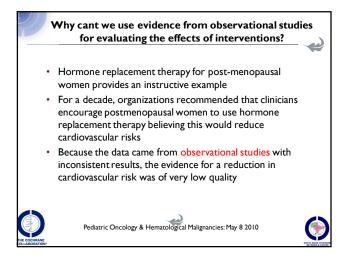
The Cochrane Library is a collection of Evidence-Based Medicine databases:			
Database	Issue 3 2009		
The Cochrane Database of Systematic Reviews (CDSR; Cochrane Reviews)			
The Cochrane Database of Reviews of Effects (DARE; Other Reviews)	10,894		
The Cochrane Central Register of Controlled Trials (CENTRAL; Clinical Trials)	5,86,829		
The Cochrane Methodology Register (CMR; Methods Studies)	11,837		
Health Technology Assessment Database (HTA; Technology Assessments)	7947		
NHS Economic Evaluation Database (NHSEED; Economic Evaluations)	26,917		
About the Cochrane Collaboration	94		

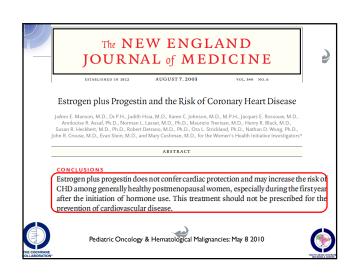












Farquhar C, Marjoribanks J, Lethaby A, Suckling JA, Lamberts Q. Long term hormone therapy for peri-menopausal and postmenopausal women. Cochrane Database of Systematic Reviews 2009, Issue 2. Art. No.: CD004143

Objectives

 To assess the effect of long-term HT on mortality, cardiovascular outcomes, cancer, gallbladder disease, cognition, fractures and quality of life.

Selection criteria

- Randomised double-blind trials of HT versus placebo, taken for at least one year by peri-menopausal or postmenopausal women.
- HT included oestrogens, with or without progestogens, via oral, trans-dermal, subcutaneous or trans-nasal routes.



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Farquhar C, Marjoribanks J, Lethaby A, Suckling JA, Lamberts Q. Long term hormone therapy for peri-menopausal and postmenopausal women. Cochrane Database of Systematic Reviews 2009, Issue 2. Art. No.: CD004143



Main results

- Nineteen trials involving 41,904 women were included.
- In relatively healthy women, combined continuous HT significantly increased the risk of venous thrombo-embolism or coronary event (after one year's use), stroke (after three years),
- Among women aged over 65 who were relatively healthy (i.e. generally fit, without overt disease) and taking continuous combined HT, there was a statistically significant increase in the incidence of dementia.



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Farquhar C, Marjoribanks J, Lethaby A, Suckling JA, Lamberts Q. Long term hormone therapy for peri-menopausal and postmenopausal women. Cochrane Database of Systematic Reviews 2009, Issue 2. Art. No.: CD004143

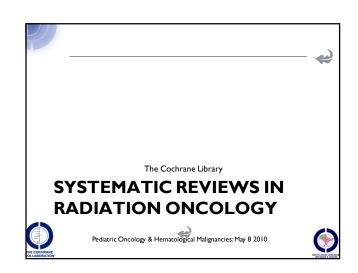
Authors' conclusions

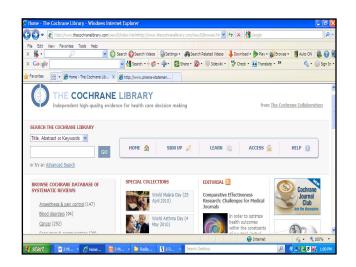
 HT is not indicated for the routine management of chronic disease. We need more evidence on the safety of HT for menopausal symptom control, though short-term use appears to be relatively safe for healthy younger women



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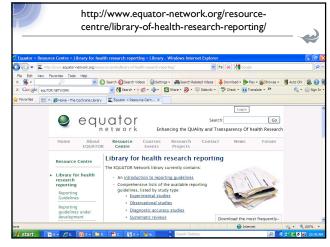


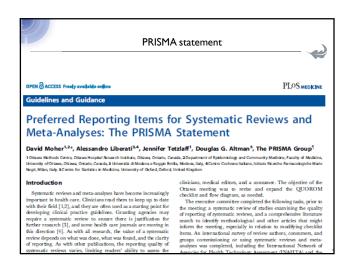




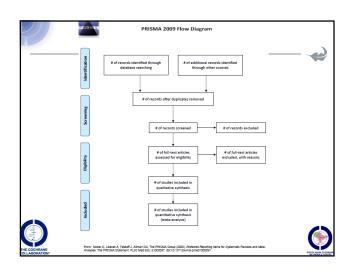


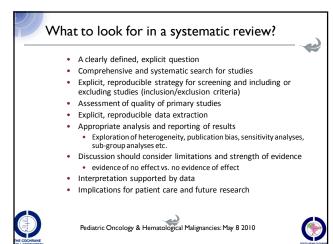




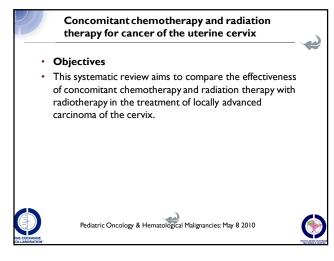


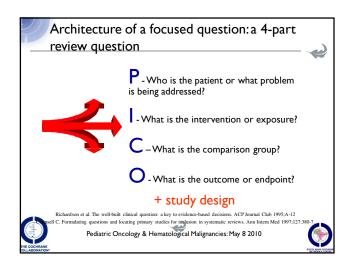
Section/topic	#	Checklist item	Reported on page
TITLE			
Title	- 1	Identify the report as a systematic review, meta-analysis, or both.	
ABSTRACT	•		
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, partiapants, and interventions; study appraisal and symhesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., if for each meta-analysis.	

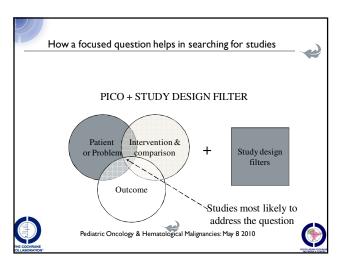


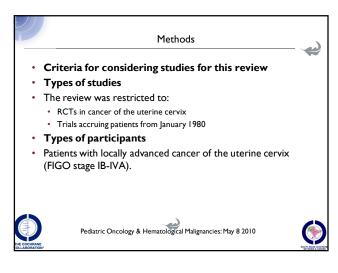


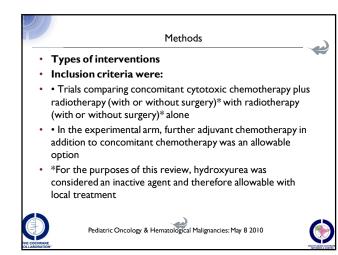


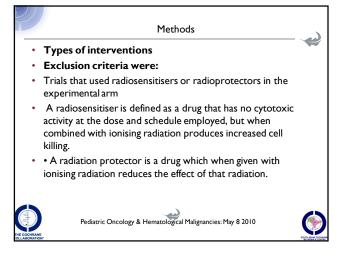


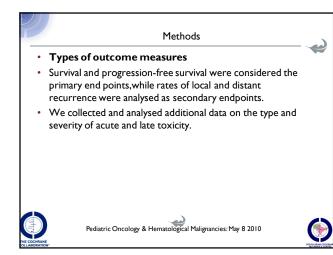


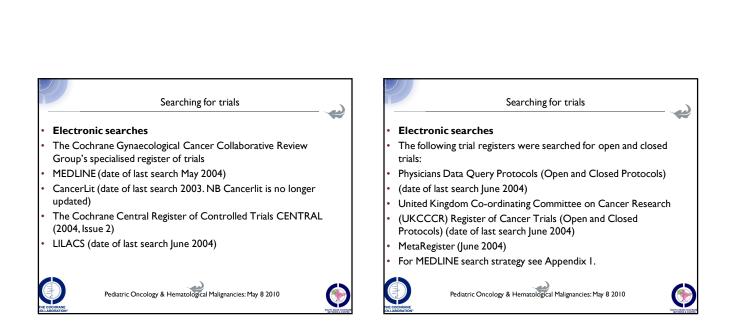




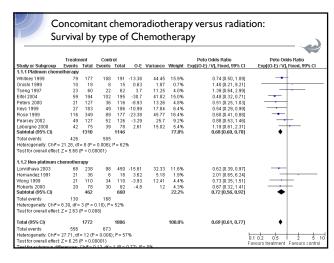


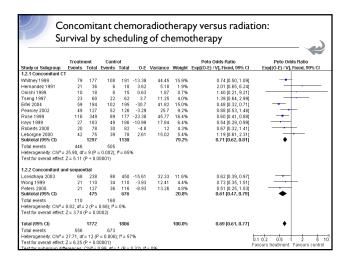


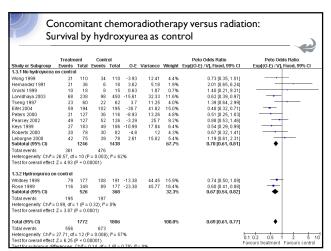


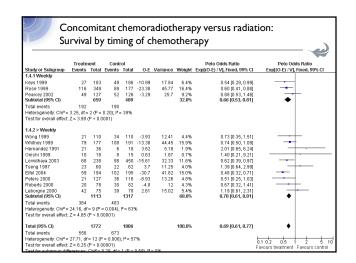


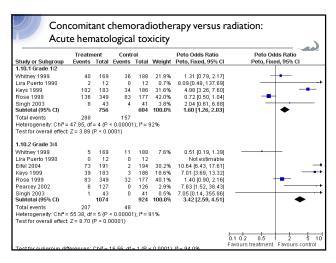


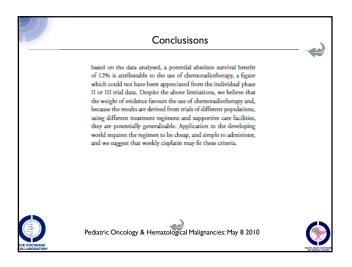












Reducing uncertainties about the effects of chemoradiotherapy for cervical cancer: individual patient data meta-analysis

Chemoradiotherapy for Cervical Cancer Meta-analysis Collaboration (CCCMAC)

1 See list of members in acknowledgements section, UK

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