

# Empty review evaluation

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## Key Points:

- An 'empty review' is a review that has no included studies

- Empty reviews may ask important questions but not be cost-effective to produce

- Since 2013, there have been fewer first publications of empty Cochrane reviews about health topics in the Cochrane Library although the proportion of empty reviews varies between Cochrane Review Groups

- The importance of empty review questions needs to be revisited through qualitative evaluation in consultation with review authors and key stakeholders

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## Introduction

An 'empty review' is a review that reports no included studies (Montgomery, 2011). Production of these so-called empty reviews continues to be an area of contention in healthcare evidence synthesis and decision-making. It is possible for a Cochrane review to have no included studies if the field is new or the review question has a narrow scope i.e. components of the PICO (population, intervention, comparator, outcomes) are very specific. Publishing these empty reviews may help to highlight gaps in the evidence base and incentivise more research into marginalised groups and people who have rare conditions, as well as innovative treatments. However, there is a cost to producing systematic reviews, and it may be argued that the publication of empty reviews is not an efficient approach to addressing evidence gaps, particularly if limited resources need to be prioritised for sustainable development. The purpose of this report is to encourage more discussions about the value of empty reviews and their contribution to future evidence production.

## Aims

1. Identify empty reviews of health topics published in the Cochrane Library between 16 August 2010 and 15 August 2021
2. Evaluate these findings in the context of the original 'Running on empty' project (Montgomery, 2011)

## Background

More than a decade ago, the Cochrane Empty Reviews Project Group convened and reported on the issue of empty reviews within the *Cochrane Database of Systematic reviews (CDSR)*. They undertook a quantitative and qualitative evaluation of all empty reviews published from inception of the *CDSR* to 15 August 2010 (spanning approximately 15 years)(Montgomery, 2011).

## Methods

The report author (KJ) undertook single data extraction between August and December 2021. The evaluation included 51 of 52 Cochrane Review Groups (CRGs) in existence at the time that addressed health topics (not the Methodology Review Group). Empty review titles and their year of publication were recorded along with the total number of reviews published by a CRG, the number and proportion of empty reviews, and the year of first publication of empty reviews. These data were collected from the Abstract sections and PRISMA flowcharts. For some reviews, such as overviews of reviews, it was often necessary to locate included studies from the Results section. As per the original project (Montgomery, 2011), additional data fields extracted were the number of excluded studies, those awaiting classification, and ongoing studies in empty reviews. These data were limited to reporting in the 'Characteristics of studies' section of the Cochrane review.

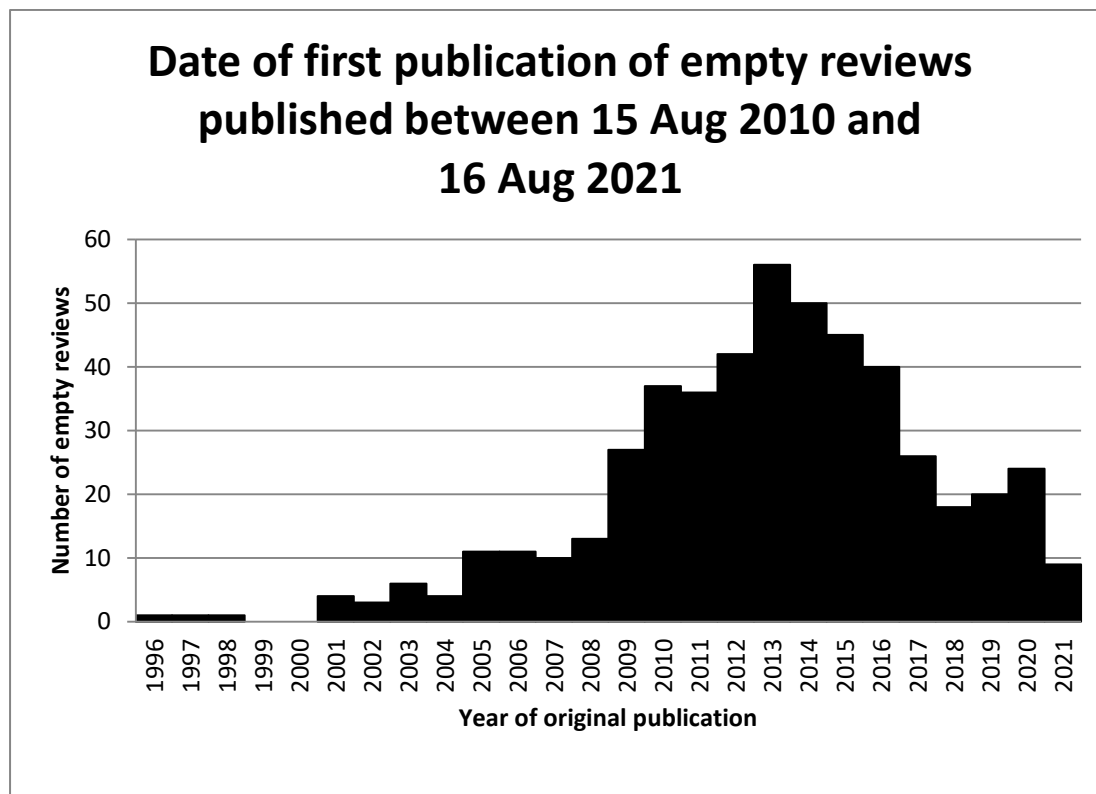
## Results

### Number and proportion of empty reviews in the CDSR

Between 16 August 2010 and 15 August 2021, a total of 6488 records were identified for new and updated reviews in the CDSR (from 51 CRGs), of which 495 were empty (7.6%). This is similar to the proportion of empty reviews published in the previous 2010 analysis (8.6%) (Montgomery, 2011). One potential explanation for the slight decrease in the proportion of empty reviews is the recent proliferation of reviews that extend eligibility to include non-randomised study designs in addition to randomised controlled trials (*see Appendix Tables 1-8 for a full list of all empty reviews identified, organised by thematic Networks of CRGs*).

On 15 August 2010, the Cochrane Empty Reviews Project Group identified 376 empty reviews (8.6%) across the whole of the CDSR (52 CRGs). Although there was variation among CRGs, there was an increasing trend for empty reviews first published between 1995 and 2010. Plotted over time, there were less than 10 empty reviews first published annually in the CDSR during the late 1990s, more than 30 by 2005, and peaking at more than 60 empty reviews across the CDSR in 2009 (Montgomery, 2011). Based on these observations, it might be expected that the proportion of empty reviews first published would continue to increase. However, this trend was not found to continue over the most recent decade. The number of first publication empty reviews peaked at 56 in 2013 and then gradually declined over the subsequent years. Between January 2013 and August 2021, there was an overall trend towards a decline in first publications of empty reviews (*see Figure 1*).

Figure 1: Change over time in first publications of empty reviews in the Cochrane Library.



### Empty reviews published by CRG

Plotting the proportion of empty reviews across CRGs revealed that more than half of all CRGs addressing health topics (27/51) published 5% or more empty reviews and eight CRGs published 10% or more (see Appendix Figure 2). Of the four CRGs with at least 15% empty reviews, the review scope related to people with conditions affecting parts of the sensory system and children with long term conditions in particular. Conducting controlled trials addressing these conditions in children may be challenging which could be one potential explanation for the larger proportion of empty reviews.

While the scope of some CRGs has changed over time, it may be helpful to explore the change in production of empty reviews at a CRG level where possible. Graphical distribution from the original project suggests that twice as many CRGs published 10% or more empty reviews when compared to the recent data. Of the six CRGs with at least 15% empty reviews, their scope showed overlap with findings from the latest update (Montgomery, 2011).

Sixteen of the 51 current CRGs had a proportion of empty reviews that was higher than the overall proportion identified in the original project (8.6%) (Montgomery, 2011). Over the search period, only two CRGs were found to have published no empty reviews, with a median of five empty reviews per CRG (25<sup>th</sup> percentile: 2.5; 75<sup>th</sup> percentile: 13). It is possible that separate, updated versions of reviews may have been published in the *CDSR* with included studies, reducing the proportion of unanswered questions. Assuming no such duplication of reviews in the *CDSR*, the greatest number of new and updated empty reviews published by a single CRG was 50, representing 10.1% of the Group's published reviews. This CRG also had the largest number of published reviews overall and the number of empty reviews was greater than the total number of reviews published by four other

CRGs, including both CRGs that published no empty reviews. As such, there may be a tendency to publish fewer empty reviews if the total portfolio of reviews is smaller. In addition to review production costs, empty reviews may have less impact on clinical practice guideline development than reviews with included studies. These factors can influence review prioritisation, emphasising the need to revisit the relative impact of addressing questions that are likely to result in empty reviews.

## Reporting 'Characteristics of studies'

The completion of this section of a Cochrane review can help to better understand the evidence landscape and likelihood of studies being included in a future update of the review.

- 99 empty reviews did not report excluded studies in 'Characteristics of studies', representing 20% of all of the empty reviews located during the search period. It is noted that some reviews reported excluded studies or the absence of any excluded studies in the main text of the review instead. Although the reporting of excluded studies could be more consistently presented, these latest results do suggest an improvement since the original project, in which 25.3% of empty reviews did not report excluded studies (Montgomery, 2011).
- 459 empty reviews did not report studies awaiting classification in 'Characteristics of studies', representing 92.7% of all of the empty reviews located during the search period, which is slightly lower than in the original project, in which 96% of empty reviews did not report studies awaiting classification (Montgomery, 2011).
- 388 empty reviews did not report ongoing studies in 'Characteristics of studies', representing 78.4% of all the empty reviews located during the search period, suggesting a need for more consistent reporting but considerable improvement since the original project, in which 90.2% of empty reviews did not report ongoing studies (Montgomery, 2011).

## Standards and guidance for reporting

When the original project explored the implications for practice in Cochrane reviews, they found some ambiguity in reporting. A minority of the reviews also included recommendations. Project investigators noted a lack of guidance on the handling of empty reviews. They undertook a survey of CRG staff to explore different perspectives. The top reason given for publishing an empty review was the review question being important, followed by the review guiding future research. However, the largest proportion of respondents did not identify supporting rationale and some reported they published empty reviews but discouraged doing so. Among the reasons given for not publishing empty reviews, respondents indicated that the time and financial costs of production were too high; they referred to the negative influence on the Group's impact factor and potential for misleading reporting of available evidence (Montgomery, 2011).

Training opportunities and the development of the Methodological Expectations of Cochrane Intervention Reviews (MECIR) Standards may have helped to address some earlier concerns, such as the reporting of excluded studies (Higgins 2021). In terms of the reporting of empty review conclusions, MECIR requires that implications for practice should avoid making recommendations, whereas recommendations for future research 'should offer constructive guidance on addressing the remaining uncertainties identified by the review' (Higgins 2021). A qualitative evaluation of the implications for research might help to identify overarching themes across empty reviews but it remains unclear how this information is being used by the wider research community and funders.

In addition to the importance of a review question to stakeholders, the format of an empty review could also influence its usability in research and practice.

### Limitations of update evaluation

- This evaluation represents a snapshot in time yet the *CDSR* is continually updated and the collection can be modified retrospectively e.g. the withdrawal of a review.
- Withdrawn reviews listed in the *CDSR* were included in the total number of published reviews. As such, the proportion of empty reviews is likely an underestimation relative to the available evidence.
- Data were extracted by a single person due to resource constraints. Dual data extraction could reduce the risk of errors and single person biases (Higgins 2021).
- Unanswered review questions could have been missed through the inclusion of empty reviews as part of an overview of reviews.
- The Methodology Review Group was included in the original evaluation (with no empty reviews identified) but not in this update, which focused on reviews about health topics.

### Conclusions

After a steady increase since the mid-nineties, this update reveals a recent decline in the number of first publications of empty reviews about health topics by Cochrane. Diversification in review methods may have contributed to this decline; however, there continues to be substantial variation between CRGs in the proportion of empty reviews published. The production of these reviews and their format could have significant implications for the sustainability of review production, which will need to be examined in more depth. This update also highlights particular populations where there appear to be evidence gaps, which may have implications for improving health equity in research. It is anticipated the findings will stimulate further exploration of the value of empty reviews as Cochrane looks forward to developing a new model of review production. For example, it may be possible to create a filter for empty reviews in the Cochrane Library to help identify evidence gaps and inform prioritisation in the context of underrepresented populations and innovative treatments. Future work will need to include revisiting the importance of the review questions in empty reviews through qualitative evaluation in consultation with review authors and key stakeholders. Further improvement in the reporting of excluded studies, those awaiting classification and ongoing studies could help to develop the evidence landscape. In terms of addressing production costs for important review questions, new streamlined formats for publishing empty reviews may be required.

### Acknowledgements

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### References

Higgins JPT, Lasserson T, Chandler J, Tovey D, Thomas J, Flemyng E, Churchill R. *Methodological Expectations of Cochrane Intervention Reviews*. Cochrane: London, Version February 2021.

Montgomery P, Yaffe J, Hopewell S, Shepard L on behalf of the Empty Reviews Project Group. [meeting report]. Running on Empty: The Cochrane Empty Reviews Project report of findings and consensus group feedback; 2011 November. <https://emptyreviews.files.wordpress.com> (accessed 10 January 2022).

## Appendix

Table 1: Abdomen and Endocrine Network CRGs

CRG	Year	Title
Colorectal	2011	<a href="#">Single incision versus conventional multi-incision appendectomy for suspected appendicitis</a>
Gut	2020	<a href="#">Surgery versus radical endotherapies for early cancer and high-grade dysplasia in Barrett's oesophagus</a>
Gut	2016	<a href="#">Fasting for haemostasis in children with gastrointestinal bleeding</a>
Gut	2016	<a href="#">Percutaneous endoscopic gastrostomy versus percutaneous radiological gastrostomy for swallowing disturbances</a>
Gut	2014	<a href="#">Botulinum toxin for upper oesophageal sphincter dysfunction in neurological swallowing disorders</a>
Gut	2013	<a href="#">Surveillance of gastric intestinal metaplasia for the prevention of gastric cancer</a>
Gut	2012	<a href="#">Screening for oesophageal cancer</a>
Hepato-Biliary	2021	<a href="#">Beta-blockers versus placebo or no intervention for primary prophylaxis of oesophageal variceal bleeding in children with chronic liver disease or portal vein thrombosis</a>
Hepato-Biliary	2020	<a href="#">Band ligation versus sclerotherapy for primary prophylaxis of oesophageal variceal bleeding in children with chronic liver disease or portal vein thrombosis</a>
Hepato-Biliary	2020	<a href="#">Sclerotherapy versus beta-blockers for primary prophylaxis of oesophageal variceal bleeding in children and adolescents with chronic liver disease or portal vein thrombosis</a>
Hepato-Biliary	2019	<a href="#">Band ligation versus beta-blockers for primary prophylaxis of oesophageal variceal bleeding in children with chronic liver disease or portal vein thrombosis</a>
Hepato-Biliary	2016	<a href="#">Booster dose vaccination for preventing hepatitis B</a>
Hepato-Biliary	2015	<a href="#">Vitamin K for upper gastrointestinal bleeding in people with acute or chronic liver diseases</a>
Hepato-Biliary	2015	<a href="#">Antifibrinolytic amino acids for upper gastrointestinal bleeding in people with acute or chronic liver disease</a>
Hepato-Biliary	2013	<a href="#">Surgical resection versus liver transplant for patients with hepatocellular carcinoma</a>
Hepato-Biliary	2013	<a href="#">Laparoscopic versus open liver resection for benign and malignant hepatic lesions in adults</a>
Hepato-Biliary	2012	<a href="#">Calcineurin inhibitor minimisation versus continuation of calcineurin inhibitor treatment for liver transplant recipients</a>
Hepato-Biliary	2011	<a href="#">Lamivudine with or without adefovir dipivoxil for postoperative hepatocellular carcinoma</a>
Hepato-Biliary	2011	<a href="#">Routine drainage for orthotopic liver transplantation</a>

Kidney & Transplant	2016	<a href="#">Urinary alkalinisation for symptomatic uncomplicated urinary tract infection in women</a>
Kidney & Transplant	2015	<a href="#">Early versus delayed erythropoietin for the anaemia of end-stage kidney disease</a>
Kidney & Transplant	2015	<a href="#">Screening with urinary dipsticks for reducing morbidity and mortality</a>
Kidney & Transplant	2013	<a href="#">Interventions for HIV-associated nephropathy</a>
Kidney & Transplant	2012	<a href="#">Sodium bicarbonate supplements for treating acute kidney injury</a>
Kidney & Transplant	2010	<a href="#">Heparin and related substances for preventing diabetic kidney disease</a>
Metabolic and Endocrine	2019	<a href="#">Calcium, vitamin D or recombinant parathyroid hormone for managing post-thyroidectomy hypoparathyroidism</a>
Metabolic and Endocrine	2016	<a href="#">Sodium-glucose cotransporter (SGLT) 2 inhibitors for prevention or delay of type 2 diabetes mellitus and its associated complications in people at risk for the development of type 2 diabetes mellitus</a>
Metabolic and Endocrine	2015	<a href="#">Chinese herbal medicines for hypothyroidism</a>
Metabolic and Endocrine	2011	<a href="#">Computer-assisted versus oral-and-written family history taking for identifying people with elevated risk of type 2 diabetes mellitus</a>
Metabolic and Endocrine	2011	<a href="#">Low-fat diets for acquired hypercholesterolaemia</a>

Table 2: Acute and Emergency Care Network CRGs

CRG	Year	Title
Acute Respiratory Infections	2018	<a href="#">Short-course versus long-course therapy of the same antibiotic for community-acquired pneumonia in adolescent and adult outpatients</a>
Acute Respiratory Infections	2017	<a href="#">Short-course versus long-course intravenous therapy with the same antibiotic for severe community-acquired pneumonia in children aged two months to 59 months</a>
Acute Respiratory Infections	2016	<a href="#">Oral Astragalus (Huang qi) for preventing frequent episodes of acute respiratory tract infection in children</a>
Acute Respiratory Infections	2015	<a href="#">Chinese medicinal herbs for mumps</a>
Acute Respiratory Infections	2015	<a href="#">Acupuncture for mumps in children</a>
Acute Respiratory Infections	2014	<a href="#">Decongestants, antihistamines and nasal irrigation for acute sinusitis in children</a>

Acute Respiratory Infections	2012	<a href="#">Chinese medicinal herbs for acute bronchitis</a>
Acute Respiratory Infections	2011	<a href="#">Chinese medicinal herbs for measles</a>
Acute Respiratory Infections	2011	<a href="#">Advising patients to increase fluid intake for treating acute respiratory infections</a>
Anaesthesia	2016	<a href="#">Local versus general anaesthesia for adults undergoing pars plana vitrectomy surgery</a>
Anaesthesia	2015	<a href="#">Sedation versus general anaesthesia for provision of dental treatment to patients younger than 18 years</a>
Anaesthesia	2014	<a href="#">Neostigmine for reversal of neuromuscular block in paediatric patients</a>
Bone, Joint and Muscle Trauma	2013	<a href="#">Conservative interventions for treating diaphyseal fractures of the forearm bones in children</a>
Bone, Joint and Muscle Trauma	2012	<a href="#">Hyperbaric oxygen therapy for promoting fracture healing and treating fracture non-union</a>
Bone, Joint and Muscle Trauma	2012	<a href="#">Surgical versus non-surgical interventions for treating humeral shaft fractures in adults</a>
Bone, Joint and Muscle Trauma	2011	<a href="#">Surgical interventions for diaphyseal fractures of the radius and ulna in children</a>
Emergency and Critical Care	2018	<a href="#">Vascular access specialist teams for device insertion and prevention of failure</a>
Emergency and Critical Care	2016	<a href="#">Central venous catheter (CVC) removal for patients of all ages with candidaemia</a>
Emergency and Critical Care	2015	<a href="#">Adjunctive hyperbaric oxygen for necrotizing fasciitis</a>
Emergency and Critical Care	2014	<a href="#">Conservative versus interventional management for primary spontaneous pneumothorax in adults</a>
Emergency and Critical Care	2014	<a href="#">Permissive hypoxaemia versus normoxaemia for mechanically ventilated critically ill patients</a>
Emergency and Critical Care	2014	<a href="#">High-flow nasal cannula therapy for respiratory support in children</a>
Emergency and Critical Care	2013	<a href="#">De-escalation of antimicrobial treatment for adults with sepsis, severe sepsis or septic shock</a>
Emergency and Critical Care	2013	<a href="#">Hypothermia for neuroprotection in children after cardiopulmonary arrest</a>
Emergency and Critical Care	2012	<a href="#">Adrenaline auto-injectors for the treatment of anaphylaxis with and without cardiovascular collapse in the community</a>
Emergency and Critical Care	2012	<a href="#">Glucocorticoids for the treatment of anaphylaxis</a>
Emergency and Critical Care	2010	<a href="#">Early versus late pre-intensive care unit admission broad spectrum antibiotics for severe sepsis in adults</a>
Injuries	2019	<a href="#">Prophylactic antibiotics for penetrating abdominal trauma</a>
Injuries	2019	<a href="#">Indomethacin for intracranial hypertension secondary to severe traumatic brain injury in adults</a>
Injuries	2015	<a href="#">Hemodialysis for lithium poisoning</a>
Injuries	2015	<a href="#">Non-operative management versus operative management in high-grade blunt hepatic injury</a>



Injuries	2015	<a href="#">Snake antivenom for snake venom induced consumption coagulopathy</a>
Injuries	2014	<a href="#">Advanced trauma life support training for hospital staff</a>
Injuries	2014	<a href="#">Vision screening of older drivers for preventing road traffic injuries and fatalities</a>
Injuries	2014	<a href="#">Non-operative versus operative treatment for blunt pancreatic trauma in children</a>
Injuries	2013	<a href="#">Plasma transfusion strategies for critically ill patients</a>
Injuries	2013	<a href="#">Selective computed tomography (CT) versus routine thoracoabdominal CT for high-energy blunt-trauma patients</a>
Injuries	2013	<a href="#">The Lund concept for severe traumatic brain injury</a>
Injuries	2013	<a href="#">Anticonvulsants for preventing seizures in patients with chronic subdural haematoma</a>
Injuries	2013	<a href="#">Damage control surgery for abdominal trauma</a>

Table 3: Cancer Network CRGs

CRG	Year	Title
Breast Cancer	2013	<a href="#">Mammography in combination with breast ultrasonography versus mammography for breast cancer screening in women at average risk</a>
Childhood Cancer	2021	<a href="#">Physical therapy interventions, other than general physical exercise interventions, in children and adolescents before, during and following treatment for cancer</a>
Childhood Cancer	2016	<a href="#">Interventions for promoting participation in shared decision-making for children with cancer</a>
Childhood Cancer	2016	<a href="#">Antibody therapies for lymphoma in children</a>
Childhood Cancer	2015	<a href="#">Extracorporeal photopheresis versus standard treatment for acute graft-versus-host disease after haematopoietic stem cell transplantation in paediatric patients</a>
Childhood Cancer	2015	<a href="#">Extracorporeal photopheresis versus alternative treatment for chronic graft-versus-host disease after haematopoietic stem cell transplantation in paediatric patients</a>
Childhood Cancer	2015	<a href="#">Cyclophosphamide versus ifosfamide for paediatric and young adult bone and soft tissue sarcoma patients</a>
Childhood Cancer	2015	<a href="#">Minimally invasive surgery versus open surgery for the treatment of solid abdominal and thoracic neoplasms in children</a>
Gynae, Neuro-Oncology &	2020	<a href="#">Interventions to reduce the time to diagnosis of brain tumours</a>

Orphan		
Gynae, Neuro-Oncology & Orphan	2020	<a href="#">Pharmacological treatment of depression in people with a primary brain tumour</a>
Gynae, Neuro-Oncology & Orphan	2020	<a href="#">Health education interventions to promote early presentation and referral for women with symptoms of endometrial cancer</a>
Gynae, Neuro-Oncology & Orphan	2019	<a href="#">Interventions for the treatment of Paget's disease of the vulva</a>
Gynae, Neuro-Oncology & Orphan	2019	<a href="#">Palliative interventions for controlling vaginal bleeding in advanced cervical cancer</a>
Gynae, Neuro-Oncology & Orphan	2017	<a href="#">Biopsy versus resection for the management of low-grade gliomas</a>
Gynae, Neuro-Oncology & Orphan	2016	<a href="#">Chemotherapy for resistant or recurrent gestational trophoblastic neoplasia</a>
Gynae, Neuro-Oncology & Orphan	2015	<a href="#">Laetrile treatment for cancer</a>
Gynae, Neuro-Oncology & Orphan	2015	<a href="#">Perioperative enhanced recovery programmes for gynaecological cancer patients</a>
Gynae, Neuro-Oncology & Orphan	2015	<a href="#">Follow-up strategies after treatment (large loop excision of the transformation zone (LLETZ)) for cervical intraepithelial neoplasia (CIN): Impact of human papillomavirus (HPV) test</a>
Gynae, Neuro-Oncology & Orphan	2014	<a href="#">Vaginal dilator therapy for women receiving pelvic radiotherapy</a>
Gynae, Neuro-Oncology & Orphan	2014	<a href="#">Surgical treatment of stage IA2 cervical cancer</a>
Gynae, Neuro-Oncology & Orphan	2014	<a href="#">Exenterative surgery for recurrent gynaecological malignancies</a>
Gynae, Neuro-Oncology & Orphan	2013	<a href="#">Follow-up protocols for women with cervical cancer after primary treatment</a>
Gynae, Neuro-Oncology & Orphan	2013	<a href="#">Patient-reported outcome measures for follow-up after gynaecological cancer treatment</a>
Gynae, Neuro-Oncology & Orphan	2013	<a href="#">Chemotherapy for thymic carcinoma and advanced thymoma in adults</a>
Gynae, Neuro-Oncology & Orphan	2013	<a href="#">Chemotherapy and/or radiotherapy in combination with surgery for ovarian carcinosarcoma</a>

Orphan		
Gynae, Neuro-Oncology & Orphan	2012	<a href="#">Electric fans for reducing adverse health impacts in heatwaves</a>
Haematology	2017	<a href="#">Plasma transfusions prior to lumbar punctures and epidural catheters for people with abnormal coagulation</a>
Haematology	2015	<a href="#">Comparison of different platelet transfusion thresholds prior to insertion of central lines in patients with thrombocytopenia</a>
Haematology	2014	<a href="#">Deferasirox for managing iron overload in people with myelodysplastic syndrome</a>
Haematology	2013	<a href="#">Allogeneic stem cell transplantation versus conventional therapy for advanced primary cutaneous T-cell lymphoma</a>
Lung Cancer	2019	<a href="#">Interventions for smoking cessation in people diagnosed with lung cancer</a>
Urology	2011	<a href="#">Screening for testicular cancer</a>

Table 4: Children and Families Network CRGs

CRG	Year	Title
CF & Genetic Disorders	2021	<a href="#">Timing of pancreatic enzyme replacement therapy (PERT) in cystic fibrosis</a>
CF & Genetic Disorders	2021	<a href="#">Hematopoietic stem cell transplantation for people with <math>\beta</math>-thalassaemia</a>
CF & Genetic Disorders	2020	<a href="#">Gene therapy for sickle cell disease</a>
CF & Genetic Disorders	2020	<a href="#">Rituximab for treating inhibitors in people with inherited severe hemophilia</a>
CF & Genetic Disorders	2020	<a href="#">Hematopoietic stem cell transplantation for people with sickle cell disease</a>
CF & Genetic Disorders	2020	<a href="#">Newborn screening for galactosaemia</a>
CF & Genetic Disorders	2020	<a href="#">Interventions for treating intrahepatic cholestasis in people with sickle cell disease</a>

CF & Genetic Disorders	2020	<a href="#">Antibiotic treatment for nontuberculous mycobacteria lung infection in people with cystic fibrosis</a>
CF & Genetic Disorders	2020	<a href="#">Gene therapy for haemophilia</a>
CF & Genetic Disorders	2020	<a href="#">Antibiotic treatment for Burkholderia cepacia complex in people with cystic fibrosis experiencing a pulmonary exacerbation</a>
CF & Genetic Disorders	2020	<a href="#">Interventions for preventing and managing advanced liver disease in cystic fibrosis</a>
CF & Genetic Disorders	2020	<a href="#">Antibiotic treatment for Stenotrophomonas maltophilia in people with cystic fibrosis</a>
CF & Genetic Disorders	2019	<a href="#">Treatment of dental complications in sickle cell disease</a>
CF & Genetic Disorders	2019	<a href="#">Regular long-term red blood cell transfusions for managing chronic chest complications in sickle cell disease</a>
CF & Genetic Disorders	2019	<a href="#">Medical interventions for chronic rhinosinusitis in cystic fibrosis</a>
CF & Genetic Disorders	2019	<a href="#">Antibiotics for treating osteomyelitis in people with sickle cell disease</a>
CF & Genetic Disorders	2019	<a href="#">Antibiotics for treating acute chest syndrome in people with sickle cell disease</a>
CF & Genetic Disorders	2019	<a href="#">Duration of intravenous antibiotic therapy in people with cystic fibrosis</a>
CF & Genetic Disorders	2019	<a href="#">Treatment of dental and orthodontic complications in thalassaemia</a>
CF & Genetic Disorders	2019	<a href="#">Enteral tube feeding for cystic fibrosis</a>
CF & Genetic Disorders	2019	<a href="#">Computer and mobile technology interventions to promote medication adherence and disease management in people with thalassemia</a>
CF & Genetic Disorders	2019	<a href="#">Interventions for promoting participation in shared decision-making for children and adolescents with cystic fibrosis</a>
CF & Genetic Disorders	2019	<a href="#">Eradication therapy for Burkholderia cepacia complex in people with cystic fibrosis</a>

CF & Genetic Disorders	2019	<a href="#">Hydroxyurea (hydroxycarbamide) for transfusion-dependent <math>\beta</math>-thalassaemia</a>
CF & Genetic Disorders	2019	<a href="#">Desmopressin acetate (DDAVP) for preventing and treating acute bleeds during pregnancy in women with congenital bleeding disorders</a>
CF & Genetic Disorders	2018	<a href="#">Vaccines for preventing invasive salmonella infections in people with sickle cell disease</a>
CF & Genetic Disorders	2018	<a href="#">Conjugate Haemophilus influenzae type b vaccines for sickle cell disease</a>
CF & Genetic Disorders	2018	<a href="#">Treatment for chronic methicillin-sensitive Staphylococcus aureus pulmonary infection in people with cystic fibrosis</a>
CF & Genetic Disorders	2018	<a href="#">Immunosuppressive drug therapy for preventing rejection following lung transplantation in cystic fibrosis</a>
CF & Genetic Disorders	2018	<a href="#">Embolisation for pulmonary arteriovenous malformation</a>
CF & Genetic Disorders	2017	<a href="#">Splenectomy versus conservative management for acute sequestration crises in people with sickle cell disease</a>
CF & Genetic Disorders	2017	<a href="#">Hematopoietic stem cell transplantation for Gaucher disease</a>
CF & Genetic Disorders	2017	<a href="#">Maternal and foetal outcomes following natural vaginal versus caesarean section (c-section) delivery in women with bleeding disorders and carriers</a>
CF & Genetic Disorders	2017	<a href="#">Fluid replacement therapy for acute episodes of pain in people with sickle cell disease</a>
CF & Genetic Disorders	2016	<a href="#">Antibiotics for treating community-acquired pneumonia in people with sickle cell disease</a>
CF & Genetic Disorders	2016	<a href="#">Antifungal therapies for allergic bronchopulmonary aspergillosis in people with cystic fibrosis</a>
CF & Genetic Disorders	2016	<a href="#">Inhaled bronchodilators for acute chest syndrome in people with sickle cell disease</a>
CF & Genetic Disorders	2016	<a href="#">Pneumococcal vaccines for cystic fibrosis</a>
CF & Genetic Disorders	2016	<a href="#">Neuraminidase inhibitors for the treatment of influenza infection in people with cystic fibrosis</a>

CF & Genetic Disorders	2016	<a href="#">Anti-inflammatory drugs and analgesics for managing symptoms in people with cystic fibrosis-related arthritis</a>
CF & Genetic Disorders	2015	<a href="#">Newborn screening for homocystinuria</a>
CF & Genetic Disorders	2014	<a href="#">Surgical interventions for treating pectus excavatum</a>
CF & Genetic Disorders	2014	<a href="#">Interventions for treating acute bleeding episodes in people with acquired hemophilia A</a>
CF & Genetic Disorders	2014	<a href="#">Psychological therapies for thalassaemia</a>
CF & Genetic Disorders	2012	<a href="#">Chemical pleurodesis versus surgical intervention for persistent and recurrent pneumothoraces in cystic fibrosis</a>
CF & Genetic Disorders	2012	<a href="#">Disease modifying anti-rheumatic drugs in people with cystic fibrosis-related arthritis</a>
CF & Genetic Disorders	2012	<a href="#">Totally implantable vascular access devices for cystic fibrosis</a>
CF & Genetic Disorders	2012	<a href="#">Carnitine supplementation for inborn errors of metabolism</a>
Fertility Regulation	2014	<a href="#">Hormonal contraception for women exposed to HIV infection</a>
Gynae & Fertility	2017	<a href="#">Surgery for tubal infertility</a>
Gynae & Fertility	2017	<a href="#">Septum resection for women of reproductive age with a septate uterus</a>
Gynae & Fertility	2013	<a href="#">Tamoxifen or letrozole versus standard methods for women with estrogen-receptor positive breast cancer undergoing oocyte or embryo cryopreservation in assisted reproduction</a>
Gynae & Fertility	2013	<a href="#">Prophylactic antibiotics for transcervical intrauterine procedures</a>
Gynae & Fertility	2013	<a href="#">Minimally invasive versus open surgery for reversal of tubal sterilization</a>
Gynae & Fertility	2012	<a href="#">Long versus short course treatment with metformin and clomiphene citrate for ovulation induction in women with PCOS</a>
Gynae & Fertility	2012	<a href="#">Progestogens with or without oestrogen for irregular uterine bleeding associated with anovulation</a>
Incontinence	2013	<a href="#">Catheter policies for management of long term voiding problems in adults with neurogenic bladder disorders</a>
Neonatal	2021	<a href="#">Continuous versus bolus intermittent intragastric tube feeding for preterm and low birth weight infants with gastro-oesophageal reflux disease</a>

Neonatal	2021	<a href="#">Bed sharing versus no bed sharing for healthy term neonates</a>
Neonatal	2020	<a href="#">Branched-chain amino acid supplementation for improving growth and development in term and preterm neonates</a>
Neonatal	2020	<a href="#">Stem cell-based interventions for the prevention of morbidity and mortality following hypoxic-ischaemic encephalopathy in newborn infants</a>
Neonatal	2020	<a href="#">Clonidine for pain in non-ventilated infants</a>
Neonatal	2020	<a href="#">Surfactant for pulmonary haemorrhage in neonates</a>
Neonatal	2019	<a href="#">Prostanoids and their analogues for the treatment of pulmonary hypertension in neonates</a>
Neonatal	2019	<a href="#">Stem cell-based interventions for the prevention and treatment of germinal matrix-intraventricular haemorrhage in preterm infants</a>
Neonatal	2019	<a href="#">Formula versus maternal breast milk for feeding preterm or low birth weight infants</a>
Neonatal	2019	<a href="#">Banked preterm versus banked term human milk to promote growth and development in very low birth weight infants</a>
Neonatal	2019	<a href="#">Enteral lactoferrin for the treatment of sepsis and necrotizing enterocolitis in neonates</a>
Neonatal	2019	<a href="#">Education of family members to support weaning to solids and nutrition in infants born preterm</a>
Neonatal	2018	<a href="#">Early planned removal versus expectant management of peripherally inserted central catheters to prevent infection in newborn infants</a>
Neonatal	2018	<a href="#">Prostaglandin E1 for maintaining ductal patency in neonates with ductal-dependent cardiac lesions</a>
Neonatal	2017	<a href="#">Mesenchymal stem cells for the prevention and treatment of bronchopulmonary dysplasia in preterm infants</a>
Neonatal	2017	<a href="#">Saline irrigation for the management of skin extravasation injury in neonates</a>
Neonatal	2017	<a href="#">Infant pacifiers for reduction in risk of sudden infant death syndrome</a>
Neonatal	2016	<a href="#">Heparin for the treatment of thrombosis in neonates</a>
Neonatal	2016	<a href="#">Instruments for assessing readiness to commence suck feeds in preterm infants: effects on time to establish full oral feeding and duration of hospitalisation</a>
Neonatal	2016	<a href="#">High frequency jet ventilation versus high frequency oscillatory ventilation for pulmonary dysfunction in preterm infants</a>
Neonatal	2016	<a href="#">Early removal versus expectant management of central venous catheters in neonates with bloodstream infection</a>

Neonatal	2016	<a href="#">Protocolized versus non-protocolized weaning for reducing the duration of invasive mechanical ventilation in newborn infants</a>
Neonatal	2016	<a href="#">Transcutaneous carbon dioxide monitoring for the prevention of neonatal morbidity and mortality</a>
Neonatal	2015	<a href="#">Specialist teams for neonatal transport to neonatal intensive care units for prevention of morbidity and mortality</a>
Neonatal	2015	<a href="#">Strategies for the discontinuation of humidified high flow nasal cannula (HHFNC) in preterm infants</a>
Neonatal	2014	<a href="#">Non-nutritive sucking for gastro-oesophageal reflux disease in preterm and low birth weight infants</a>
Neonatal	2013	<a href="#">Hydralazine in infants with persistent hypoxemic respiratory failure</a>
Neonatal	2013	<a href="#">Acupuncture for hypoxic ischemic encephalopathy in neonates</a>
Neonatal	2012	<a href="#">Routine neonatal circumcision for the prevention of urinary tract infections in infancy</a>
Neonatal	2012	<a href="#">Prophylactic antibiotics to reduce morbidity and mortality in newborn infants with intercostal catheters</a>
Neonatal	2012	<a href="#">Surfactant for bacterial pneumonia in late preterm and term infants</a>
Neonatal	2011	<a href="#">Patient isolation measures for infants with candida colonization or infection for preventing or reducing transmission of candida in neonatal units</a>
Neonatal	2011	<a href="#">Oral immunoglobulin for the treatment of rotavirus diarrhea in low birth weight infants</a>
Neonatal	2011	<a href="#">Fluid restriction and prophylactic indomethacin versus prophylactic indomethacin alone for prevention of morbidity and mortality in extremely low birth weight infants</a>
Neonatal	2011	<a href="#">Pharyngeal instillation of surfactant before the first breath for prevention of morbidity and mortality in preterm infants at risk of respiratory distress syndrome</a>
Neonatal	2010	<a href="#">Milrinone for persistent pulmonary hypertension of the newborn</a>
Neonatal	2010	<a href="#">Respiratory function monitoring to reduce mortality and morbidity in newborn infants receiving resuscitation</a>
Neonatal	2010	<a href="#">Octreotide for the treatment of chylothorax in neonates</a>
Pregnancy & Childbirth	2018	<a href="#">Transplacental versus direct fetal corticosteroid treatment for accelerating fetal lung maturation where there is a risk of preterm birth</a>
Pregnancy & Childbirth	2018	<a href="#">Interventions for investigating and identifying the causes of stillbirth</a>
Pregnancy & Childbirth	2018	<a href="#">Planned birth at or near term for improving health outcomes for pregnant women with pre-existing diabetes and their infants</a>
Pregnancy &	2017	<a href="#">Exercise for pregnant women with pre-existing diabetes for improving maternal and fetal outcomes</a>



Childbirth		
Pregnancy & Childbirth	2017	<a href="#">Antenatal maternal education for improving postnatal perineal healing for women who have birthed in a hospital setting</a>
Pregnancy & Childbirth	2017	<a href="#">Planned caesarean section versus planned vaginal birth for severe pre-eclampsia</a>
Pregnancy & Childbirth	2017	<a href="#">Interconception care for women with a history of gestational diabetes for improving maternal and infant outcomes</a>
Pregnancy & Childbirth	2017	<a href="#">Elective repeat caesarean section versus induction of labour for women with a previous caesarean birth</a>
Pregnancy & Childbirth	2016	<a href="#">Baby-led compared with scheduled (or mixed) breastfeeding for successful breastfeeding</a>
Pregnancy & Childbirth	2016	<a href="#">Regimens of fetal surveillance of suspected large-for-gestational-age fetuses for improving health outcomes</a>
Pregnancy & Childbirth	2016	<a href="#">Melatonin for women in pregnancy for neuroprotection of the fetus</a>
Pregnancy & Childbirth	2016	<a href="#">Pharmacological interventions for generalised itching (not caused by systemic disease or skin lesions) in pregnancy</a>
Pregnancy & Childbirth	2015	<a href="#">Nutritional advice for improving outcomes in multiple pregnancies</a>
Pregnancy & Childbirth	2015	<a href="#">Reduction of the number of fetuses for women with a multiple pregnancy</a>
Pregnancy & Childbirth	2015	<a href="#">Risk-scoring systems for predicting preterm birth with the aim of reducing associated adverse outcomes</a>
Pregnancy & Childbirth	2015	<a href="#">Expedited versus conservative approaches for vaginal delivery in breech presentation</a>
Pregnancy & Childbirth	2015	<a href="#">Directed preconception health programs and interventions for improving pregnancy outcomes for women who are overweight or obese</a>
Pregnancy & Childbirth	2015	<a href="#">Planned early delivery versus expectant management for monoamniotic twins</a>
Pregnancy & Childbirth	2015	<a href="#">Routine blood cultures in the management of pyelonephritis in pregnancy for improving outcomes</a>

Pregnancy & Childbirth	2014	<a href="#">Creatine for women in pregnancy for neuroprotection of the fetus</a>
Pregnancy & Childbirth	2014	<a href="#">Hepatitis B vaccination during pregnancy for preventing infant infection</a>
Pregnancy & Childbirth	2014	<a href="#">Interventions for women in subsequent pregnancies following obstetric anal sphincter injury to reduce the risk of recurrent injury and associated harms</a>
Pregnancy & Childbirth	2014	<a href="#">Prophylactic antibiotics for manual removal of retained placenta in vaginal birth</a>
Pregnancy & Childbirth	2014	<a href="#">Antibiotics prior to amniotomy for reducing infectious morbidity in mother and infant</a>
Pregnancy & Childbirth	2014	<a href="#">Interventions for treating postpartum constipation</a>
Pregnancy & Childbirth	2014	<a href="#">Hypnosis for induction of labour</a>
Pregnancy & Childbirth	2014	<a href="#">Antenatal breast milk expression by women with diabetes for improving infant outcomes</a>
Pregnancy & Childbirth	2014	<a href="#">Customised versus population-based growth charts as a screening tool for detecting small for gestational age infants in low-risk pregnant women</a>
Pregnancy & Childbirth	2013	<a href="#">Interventions for hyperthyroidism pre-pregnancy and during pregnancy</a>
Pregnancy & Childbirth	2013	<a href="#">Transabdominal amnioinfusion for improving fetal outcomes after oligohydramnios secondary to preterm prelabour rupture of membranes before 26 weeks</a>
Pregnancy & Childbirth	2013	<a href="#">Support for mothers, fathers and families after perinatal death</a>
Pregnancy & Childbirth	2013	<a href="#">Antenatal immunoglobulin for fetal red blood cell alloimmunization</a>
Pregnancy & Childbirth	2013	<a href="#">Deflation of gastric band balloon in pregnancy for improving outcomes</a>
Pregnancy & Childbirth	2013	<a href="#">Methods for administering subcutaneous heparin during pregnancy</a>
Pregnancy & Childbirth	2013	<a href="#">Interventions for improving outcomes for pregnant women who have experienced genital cutting</a>

Pregnancy & Childbirth	2013	<a href="#">Interventions for supporting parents' decisions about autopsy after stillbirth</a>
Pregnancy & Childbirth	2013	<a href="#">Vibroacoustic stimulation for fetal assessment in labour in the presence of a nonreassuring fetal heart rate trace</a>
Pregnancy & Childbirth	2013	<a href="#">Antenatal interventions for reducing weight in obese women for improving pregnancy outcome</a>
Pregnancy & Childbirth	2013	<a href="#">Laparoscopic surgery for presumed benign ovarian tumor during pregnancy</a>
Pregnancy & Childbirth	2012	<a href="#">Symphysiotomy for feto-pelvic disproportion</a>
Pregnancy & Childbirth	2012	<a href="#">Trial of instrumental delivery in theatre versus immediate caesarean section for anticipated difficult assisted births</a>
Pregnancy & Childbirth	2012	<a href="#">Interventions in the workplace to support breastfeeding for women in employment</a>
Pregnancy & Childbirth	2012	<a href="#">Maternity waiting facilities for improving maternal and neonatal outcome in low-resource countries</a>
Pregnancy & Childbirth	2012	<a href="#">Pulmonary artery flow catheters for directing management in pre-eclampsia</a>
Pregnancy & Childbirth	2012	<a href="#">Caesarean section for non-medical reasons at term</a>
Pregnancy & Childbirth	2012	<a href="#">Different magnesium sulphate regimens for neuroprotection of the fetus for women at risk of preterm birth</a>
Pregnancy & Childbirth	2011	<a href="#">Treatment of valvular heart disease during pregnancy for improving maternal and neonatal outcome</a>
Pregnancy & Childbirth	2011	<a href="#">Haematological interventions for treating disseminated intravascular coagulation during pregnancy and postpartum</a>
Pregnancy & Childbirth	2011	<a href="#">Antenatal interventions for preventing the transmission of cytomegalovirus (CMV) from the mother to fetus during pregnancy and adverse outcomes in the congenitally infected infant</a>
Pregnancy & Childbirth	2010	<a href="#">Alternative positions for the baby at birth before clamping the umbilical cord</a>

Table 5: Circulation and Breathing Network CRGs

CRG	Year	Title
Airways	2018	<a href="#">Continuous versus intermittent antibiotics for bronchiectasis</a>
Airways	2018	<a href="#">Oral versus inhaled antibiotics for bronchiectasis</a>
Airways	2016	<a href="#">Patient- and parent-initiated oral steroids for asthma exacerbations</a>
Airways	2016	<a href="#">Inhaled corticosteroids with combination inhaled long-acting beta2-agonists and long-acting muscarinic antagonists for chronic obstructive pulmonary disease</a>
Airways	2016	<a href="#">Codeine versus placebo for chronic cough in children</a>
Airways	2015	<a href="#">Interventions for enhancing adherence to treatment in adults with bronchiectasis</a>
Airways	2015	<a href="#">Pulse oximeters to self monitor oxygen saturation levels as part of a personalised asthma action plan for people with asthma</a>
Airways	2015	<a href="#">Stopping long-acting beta2-agonists (LABA) for children with asthma well controlled on LABA and inhaled corticosteroids</a>
Airways	2014	<a href="#">Anticoagulation therapy versus placebo for pulmonary hypertension</a>
Airways	2013	<a href="#">Breathing exercises for dysfunctional breathing/hyperventilation syndrome in children</a>
Airways	2012	<a href="#">Alexander technique for chronic asthma</a>
Airways	2012	<a href="#">Restriction of oral intake of water for aspiration lung disease in children</a>
Airways	2011	<a href="#">Treatment of obstructive sleep apnoea for chronic cough in children</a>
Heart	2015	<a href="#">Yoga for secondary prevention of coronary heart disease</a>
Heart	2013	<a href="#">Psychological interventions for depression in adolescent and adult congenital heart disease</a>
Heart	2013	<a href="#">Antibiotics for brain abscesses in people with cyanotic congenital heart disease</a>
Hypertension	2020	<a href="#">Screening strategies for hypertension</a>
Hypertension	2014	<a href="#">First-line beta-blockers versus other antihypertensive medications for chronic type B aortic dissection</a>
Hypertension	2012	<a href="#">Tianma Gouteng Yin Formula for treating primary hypertension</a>
Hypertension	2011	<a href="#">Hydralazine for essential hypertension</a>
Stroke	2021	<a href="#">Surgical and radiological interventions for treating symptomatic extracranial cervical artery dissection</a>

Stroke	2020	<a href="#">Anti-inflammatory therapy for preventing stroke and other vascular events after ischaemic stroke or transient ischaemic attack</a>
Stroke	2013	<a href="#">Early versus delayed mobilisation for aneurysmal subarachnoid haemorrhage</a>
Stroke	2012	<a href="#">Interventions for age-related visual problems in patients with stroke</a>
Stroke	2010	<a href="#">Antithrombotic drugs for carotid artery dissection</a>
Vascular	2021	<a href="#">Hybrid repair versus conventional open repair for aortic arch dissection</a>
Vascular	2021	<a href="#">Hybrid repair versus conventional open repair for thoracic aortic arch aneurysms</a>
Vascular	2021	<a href="#">Endoluminal interventions versus surgical interventions for stenosis in vein grafts following infrainguinal bypass</a>
Vascular	2020	<a href="#">Presurgery exercise-based conditioning interventions (prehabilitation) in adults undergoing lower limb surgery for peripheral arterial disease</a>
Vascular	2020	<a href="#">Surgical and medical interventions for abdominal aortic graft infections</a>
Vascular	2020	<a href="#">Internal iliac artery revascularisation versus internal iliac artery occlusion for endovascular treatment of aorto-iliac aneurysms</a>
Vascular	2020	<a href="#">Anticoagulant treatment for subsegmental pulmonary embolism</a>
Vascular	2019	<a href="#">Combined proximal descending aortic endografting plus distal bare metal stenting (PETTICOAT technique) versus conventional proximal descending aortic stent graft repair for complicated type B aortic dissections</a>
Vascular	2019	<a href="#">Thoracic endovascular repair (TEVAR) versus open surgery for blunt traumatic thoracic aortic injury</a>
Vascular	2018	<a href="#">Rutosides for prevention of post-thrombotic syndrome</a>
Vascular	2018	<a href="#">Controlled hypotension versus normotensive resuscitation strategy for people with ruptured abdominal aortic aneurysm</a>
Vascular	2017	<a href="#">Thrombolysis for acute upper extremity deep vein thrombosis</a>
Vascular	2016	<a href="#">Lumbar sympathectomy techniques for critical lower limb ischaemia due to non-reconstructable peripheral arterial disease</a>
Vascular	2016	<a href="#">Pharmacomechanical thrombectomy for iliofemoral deep vein thrombosis</a>
Vascular	2016	<a href="#">Intravenous heparin during ruptured abdominal aortic aneurysmal repair</a>
Vascular	2016	<a href="#">Thoracic stent graft versus surgery for thoracic aneurysm</a>
Vascular	2016	<a href="#">Revascularisation of the left subclavian artery for thoracic endovascular aortic repair</a>
Vascular	2015	<a href="#">Stent graft types for endovascular repair of thoracic aortic aneurysms</a>

Vascular	2015	<a href="#">Stent graft types for endovascular repair of abdominal aortic aneurysms</a>
Vascular	2015	<a href="#">Endovascular repair versus open repair for inflammatory abdominal aortic aneurysms</a>
Vascular	2014	<a href="#">Angioplasty versus stenting for subclavian artery stenosis</a>
Vascular	2014	<a href="#">Screening for peripheral arterial disease</a>
Vascular	2012	<a href="#">Thrombophilia testing for prevention of recurrent venous thromboembolism</a>
Vascular	2012	<a href="#">Stent placement versus surgery for coarctation of the thoracic aorta</a>
Vascular	2012	<a href="#">Distal aortic perfusion during thoracoabdominal aneurysm repair for prevention of paraplegia</a>

Table 6: Mental Health and Neuroscience Network CRGs

CRG	Year	Title
Common Mental Disorders	2020	<a href="#">Means restriction for the prevention of suicide on roads</a>
Common Mental Disorders	2020	<a href="#">Interventions for the management of obesity in people with bipolar disorder</a>
Common Mental Disorders	2014	<a href="#">Alternating current cranial electrotherapy stimulation (CES) for depression</a>
Common Mental Disorders	2012	<a href="#">Tiagabine for acute affective episodes in bipolar disorder</a>
Common Mental Disorders	2011	<a href="#">Tiagabine in the maintenance treatment of bipolar disorder</a>
Dementia and Cognitive Improvement	2017	<a href="#">Assistive technology for memory support in dementia</a>
Dementia and Cognitive Improvement	2017	<a href="#">Dance movement therapy for dementia</a>
Dementia and Cognitive Improvement	2016	<a href="#">Statin withdrawal in people with dementia</a>
Dementia and Cognitive Improvement	2015	<a href="#">Opioids for agitation in dementia</a>
Dementia and Cognitive Improvement	2013	<a href="#">Driving assessment for maintaining mobility and safety in drivers with dementia</a>
Dementia and Cognitive Improvement	2013	<a href="#">Flow-regulated versus differential pressure-regulated shunt valves for adult patients with normal pressure hydrocephalus</a>
Dementia and Cognitive Improvement	2012	<a href="#">Huperzine A for mild cognitive impairment</a>
Developmental, Psychosocial & Learning Problems	2017	<a href="#">Family therapy for autism spectrum disorders</a>
Developmental, Psychosocial & Learning Problems	2015	<a href="#">Clozapine for psychotic disorders in adults with intellectual disabilities</a>
Developmental, Psychosocial & Learning Problems	2014	<a href="#">Auditory-verbal therapy for promoting spoken language development in children with permanent hearing impairments</a>

Developmental, Psychosocial & Learning Problems	2013	<a href="#">Fundoplication versus postoperative medication for gastro-oesophageal reflux in children with neurological impairment undergoing gastrostomy</a>
Developmental, Psychosocial & Learning Problems	2013	<a href="#">Psychoanalytic/psychodynamic psychotherapy for children and adolescents who have been sexually abused</a>
Developmental, Psychosocial & Learning Problems	2013	<a href="#">Gastrostomy feeding versus oral feeding alone for children with cerebral palsy</a>
Developmental, Psychosocial & Learning Problems	2012	<a href="#">Music education for improving reading skills in children and adolescents with dyslexia</a>
Developmental, Psychosocial & Learning Problems	2012	<a href="#">Crisis interventions for people with borderline personality disorder</a>
Developmental, Psychosocial & Learning Problems	2011	<a href="#">Melatonin for non-respiratory sleep disorders in visually impaired children</a>
Developmental, Psychosocial & Learning Problems	2011	<a href="#">Acupuncture for Attention Deficit Hyperactivity Disorder (ADHD) in children and adolescents</a>
Drugs & Alcohol	2013	<a href="#">QTc interval screening for cardiac risk in methadone treatment of opioid dependence</a>
Drugs & Alcohol	2012	<a href="#">Managed alcohol as a harm reduction intervention for alcohol addiction in populations at high risk for substance abuse</a>
Drugs & Alcohol	2010	<a href="#">Treatment for inhalant dependence and abuse</a>
Epilepsy	2020	<a href="#">Pharmacological treatment for continuous spike-wave during slow wave sleep syndrome and Landau-Kleffner Syndrome</a>
Epilepsy	2020	<a href="#">Clonazepam add-on therapy for drug-resistant epilepsy</a>
Epilepsy	2020	<a href="#">EEG for children with complex febrile seizures</a>
Epilepsy	2018	<a href="#">Subpial transection surgery for epilepsy</a>
Epilepsy	2016	<a href="#">Antiepileptic drugs for the primary and secondary prevention of seizures in viral encephalitis</a>
Epilepsy	2016	<a href="#">Pharmacological treatment for Kleine-Levin syndrome</a>
Epilepsy	2016	<a href="#">Antiepileptic drugs for the primary and secondary prevention of seizures after intracranial venous thrombosis</a>
Epilepsy	2013	<a href="#">Antiepileptic drugs for the primary and secondary prevention of seizures after subarachnoid haemorrhage</a>
Epilepsy	2011	<a href="#">The effects of anaesthetic agents on cortical mapping during neurosurgical procedures involving eloquent areas of the brain</a>

Movement Disorders	2020	<a href="#">Botulinum toxin type A therapy for hemifacial spasm</a>
Movement Disorders	2017	<a href="#">Benzodiazepines for restless legs syndrome</a>
Movement Disorders	2016	<a href="#">Speech therapy for children with dysarthria acquired before three years of age</a>
Movement Disorders	2013	<a href="#">Botulinum toxin for masseter hypertrophy</a>
MS & Rare Diseases of the CNS	2014	<a href="#">Biologics, colchicine, corticosteroids, immunosuppressants and interferon-alpha for Neuro-Behçet's Syndrome</a>
Neuromuscular	2019	<a href="#">Assisted standing for Duchenne muscular dystrophy</a>
Neuromuscular	2017	<a href="#">Invasive versus non-invasive ventilation for acute respiratory failure in neuromuscular disease and chest wall disorders</a>
Neuromuscular	2017	<a href="#">Drug therapy for chronic idiopathic axonal polyneuropathy</a>
Neuromuscular	2015	<a href="#">Treatment for dysphagia (swallowing difficulties) in hereditary ataxia</a>
Neuromuscular	2015	<a href="#">Surgery for scoliosis in Duchenne muscular dystrophy</a>
Neuromuscular	2015	<a href="#">Physical rehabilitation for critical illness myopathy and neuropathy</a>
Neuromuscular	2014	<a href="#">Ephedrine for myasthenia gravis, neonatal myasthenia and the congenital myasthenic syndromes</a>
Neuromuscular	2013	<a href="#">Immunotherapy for idiopathic lumbosacral plexopathy</a>
Neuromuscular	2013	<a href="#">Thymectomy for non-thymomatous myasthenia gravis</a>
Neuromuscular	2013	<a href="#">Drug therapy for pain in amyotrophic lateral sclerosis or motor neuron disease</a>
Neuromuscular	2012	<a href="#">Treatment for paraneoplastic neuropathies</a>
Neuromuscular	2012	<a href="#">Treatment for meralgia paraesthetica</a>
Neuromuscular	2012	<a href="#">Treatment for POEMS (polyneuropathy, organomegaly, endocrinopathy, M-protein, and skin changes) syndrome</a>
Neuromuscular	2012	<a href="#">Hyperbaric oxygen therapy for Bell's palsy</a>
Neuromuscular	2011	<a href="#">Physical training for McArdle disease</a>
Neuromuscular	2011	<a href="#">Enteral tube feeding for amyotrophic lateral sclerosis/motor neuron disease</a>
Neuromuscular	2010	<a href="#">Multidisciplinary care for Guillain-Barré syndrome</a>
Schizophrenia	2009	<a href="#">Treatments for primary delusional infestation</a>
Schizophrenia	2019	<a href="#">Yoga as part of a package of care versus non-standard care for schizophrenia</a>
Schizophrenia	2018	<a href="#">Occupational therapy delivered by specialists versus non-specialists for people</a>



		<a href="#">with schizophrenia</a>
Schizophrenia	2017	<a href="#">Different communication strategies for disclosing a diagnosis of schizophrenia and related disorders</a>
Schizophrenia	2017	<a href="#">De-escalation techniques for psychosis-induced aggression or agitation</a>
Schizophrenia	2016	<a href="#">Interventions to encourage uptake of cancer screening for people with severe mental illness</a>
Schizophrenia	2016	<a href="#">HIV prevention advice for people with serious mental illness</a>
Schizophrenia	2016	<a href="#">Pharmacological interventions for clozapine-induced sinus tachycardia</a>
Schizophrenia	2016	<a href="#">Dietary advice for people with schizophrenia</a>
Schizophrenia	2016	<a href="#">Smoking cessation advice for people with serious mental illness</a>
Schizophrenia	2015	<a href="#">'As required' medication regimens for seriously mentally ill people in hospital</a>
Schizophrenia	2015	<a href="#">Cognitive behavioural therapy (brief versus standard duration) for schizophrenia</a>
Schizophrenia	2014	<a href="#">Physical health care monitoring for people with serious mental illness</a>
Schizophrenia	2013	<a href="#">Anticholinergic medication for non-clozapine neuroleptic-induced hypersalivation in people with schizophrenia</a>
Schizophrenia	2013	<a href="#">Preventive interventions for postnatal psychosis</a>

Table 7: Musculoskeletal, Oral, Skin and sensory Network CRGs

CRG	Year	Title
Back & Neck	2015	<a href="#">Surgical versus non-surgical interventions in people with adolescent idiopathic scoliosis</a>
ENT	2020	<a href="#">Antimicrobial mouthwashes (gargling) and nasal sprays to protect healthcare workers when undertaking aerosol-generating procedures (AGPs) on patients without suspected or confirmed COVID-19 infection</a>
ENT	2020	<a href="#">Use of antimicrobial mouthwashes (gargling) and nasal sprays by healthcare workers to protect them when treating patients with suspected or confirmed COVID-19 infection</a>
ENT	2020	<a href="#">Antimicrobial mouthwashes (gargling) and nasal sprays administered to patients with suspected or confirmed COVID-19 infection to improve patient outcomes and to protect healthcare workers treating them</a>
ENT	2018	<a href="#">Restriction of salt, caffeine and alcohol intake for the treatment of Ménière's disease or syndrome</a>

ENT	2018	<a href="#">De-intensified adjuvant (chemo)radiotherapy versus standard adjuvant chemoradiotherapy post transoral minimally invasive surgery for resectable HPV-positive oropharyngeal carcinoma</a>
ENT	2016	<a href="#">Minimally invasive surgery versus radiotherapy/chemoradiotherapy for small-volume primary oropharyngeal carcinoma</a>
ENT	2015	<a href="#">Screening for nasopharyngeal cancer</a>
ENT	2015	<a href="#">Antibiotics for preventing recurrent sore throat</a>
ENT	2015	<a href="#">Pharmacological agents for the prevention of vestibular migraine</a>
ENT	2015	<a href="#">Steroid-eluting sinus stents for improving symptoms in chronic rhinosinusitis patients undergoing functional endoscopic sinus surgery</a>
ENT	2015	<a href="#">Interventions for the treatment of Frey's syndrome</a>
ENT	2014	<a href="#">Stereotactic radiotherapy for vestibular schwannoma</a>
ENT	2014	<a href="#">Surgical interventions for chronic rhinosinusitis with nasal polyps</a>
ENT	2014	<a href="#">De-escalation treatment protocols for human papillomavirus-associated oropharyngeal squamous cell carcinoma</a>
ENT	2013	<a href="#">Hyperbaric oxygen as an adjuvant treatment for malignant otitis externa</a>
ENT	2012	<a href="#">Alternative injectable materials for vocal fold medialisation in unilateral vocal fold paralysis</a>
ENT	2012	<a href="#">Surgical versus non-surgical interventions for vocal cord nodules</a>
ENT	2012	<a href="#">Surgery for congenital choanal atresia</a>
ENT	2012	<a href="#">Interventions for atrophic rhinitis</a>
ENT	2010	<a href="#">Inferior turbinate surgery for nasal obstruction in allergic rhinitis after failed medical treatment</a>
Eyes & Vision	2021	<a href="#">Adjunctive modulation of wound healing during cataract surgery to promote survival of a previous trabeculectomy</a>
Eyes & Vision	2020	<a href="#">Systemic interventions for severe atopic and vernal keratoconjunctivitis in children and young people up to the age of 16 years</a>
Eyes & Vision	2020	<a href="#">Topical mydriatics as adjunctive therapy for traumatic iridocyclitis</a>
Eyes & Vision	2020	<a href="#">Artificial corneas versus donor corneas for repeat corneal transplants</a>
Eyes & Vision	2020	<a href="#">Telerehabilitation for people with low vision</a>
Eyes & Vision	2019	<a href="#">Interventions for orbital lymphangioma</a>
Eyes & Vision	2019	<a href="#">Intrastromal corneal ring segments for treating keratoconus</a>

Eyes & Vision	2019	<a href="#">Endoscopic cyclophotocoagulation (ECP) for open angle glaucoma and primary angle closure</a>
Eyes & Vision	2018	<a href="#">Anti-tumour necrosis factor biological therapies for the treatment of uveitic macular oedema (UMO) for non-infectious uveitis</a>
Eyes & Vision	2018	<a href="#">Subconjunctival draining minimally-invasive glaucoma devices for medically uncontrolled glaucoma</a>
Eyes & Vision	2018	<a href="#">Tocilizumab for thyroid eye disease</a>
Eyes & Vision	2018	<a href="#">Implantable miniature telescope (IMT) for vision loss due to end-stage age-related macular degeneration</a>
Eyes & Vision	2018	<a href="#">Surgery for postvitrectomy cataract</a>
Eyes & Vision	2017	<a href="#">Interventions for the management of CMV-associated anterior segment inflammation</a>
Eyes & Vision	2017	<a href="#">Focal laser treatment in addition to chemotherapy for retinoblastoma</a>
Eyes & Vision	2017	<a href="#">Nd:YAG laser vitreolysis versus pars plana vitrectomy for vitreous floaters</a>
Eyes & Vision	2017	<a href="#">Corticosteroids as adjuvant therapy for ocular toxoplasmosis</a>
Eyes & Vision	2017	<a href="#">Non-surgical interventions for acute internal hordeolum</a>
Eyes & Vision	2016	<a href="#">Systemic treatment for blepharokeratoconjunctivitis in children</a>
Eyes & Vision	2016	<a href="#">Psychosocial interventions for improving quality of life outcomes in adults undergoing strabismus surgery</a>
Eyes & Vision	2015	<a href="#">Binocular versus standard occlusion or blurring treatment for unilateral amblyopia in children aged three to eight years</a>
Eyes & Vision	2015	<a href="#">Assistive technology for children and young people with low vision</a>
Eyes & Vision	2015	<a href="#">Optical reading aids for children and young people with low vision</a>
Eyes & Vision	2015	<a href="#">Topical non-steroidal anti-inflammatory agents for diabetic cystoid macular oedema</a>
Eyes & Vision	2014	<a href="#">Mohs micrographic surgery versus surgical excision for periocular basal cell carcinoma</a>
Eyes & Vision	2014	<a href="#">Strabismus surgery before versus after completion of amblyopia therapy in children</a>
Eyes & Vision	2014	<a href="#">Interventions for asymptomatic retinal breaks and lattice degeneration for preventing retinal detachment</a>
Eyes & Vision	2014	<a href="#">Aspirin as adjunctive treatment for giant cell arteritis</a>
Eyes & Vision	2014	<a href="#">Antimetabolites in cataract surgery to prevent failure of a previous trabeculectomy</a>
Eyes & Vision	2014	<a href="#">Interventions for Mooren's ulcer</a>
Eyes & Vision	2014	<a href="#">Complement inhibitors for age-related macular degeneration</a>

Eyes & Vision	2013	<a href="#">Interventions for infantile esotropia</a>
Eyes & Vision	2013	<a href="#">Surgery for traumatic optic neuropathy</a>
Eyes & Vision	2013	<a href="#">Rituximab for thyroid-associated ophthalmopathy</a>
Eyes & Vision	2012	<a href="#">Photorefractive keratectomy (PRK) versus laser assisted in situ keratomileusis (LASIK) for hyperopia correction</a>
Eyes & Vision	2012	<a href="#">Interventions for prevention of giant retinal tear in the fellow eye</a>
Musculoskeletal	2014	<a href="#">Surgery for treating hip impingement (femoroacetabular impingement)</a>
Musculoskeletal	2013	<a href="#">Intra-articular glucocorticoids for acute gout</a>
Musculoskeletal	2011	<a href="#">Pain management for rheumatoid arthritis and cardiovascular or renal comorbidity</a>
Oral	2020	<a href="#">Antimicrobial mouthwashes (gargling) and nasal sprays to protect healthcare workers when undertaking aerosol-generating procedures (AGPs) on patients without suspected or confirmed COVID-19 infection</a>
Oral	2020	<a href="#">Use of antimicrobial mouthwashes (gargling) and nasal sprays by healthcare workers to protect them when treating patients with suspected or confirmed COVID-19 infection</a>
Oral	2020	<a href="#">Antimicrobial mouthwashes (gargling) and nasal sprays administered to patients with suspected or confirmed COVID-19 infection to improve patient outcomes and to protect healthcare workers treating them</a>
Oral	2018	<a href="#">Interventions for treating post-extraction bleeding</a>
Oral	2018	<a href="#">Orthodontic treatment for deep bite and retroclined upper front teeth in children</a>
Oral	2015	<a href="#">Interventions for treating traumatised ankylosed permanent front teeth</a>
Oral	2015	<a href="#">Magnification devices for endodontic therapy</a>
Oral	2015	<a href="#">Interventions for the management of external root resorption</a>
Oral	2015	<a href="#">Interventions for the treatment of keratocystic odontogenic tumours</a>
Oral	2014	<a href="#">Replacement versus repair of defective restorations in adults: resin composite</a>
Oral	2014	<a href="#">Replacement versus repair of defective restorations in adults: amalgam</a>
Oral	2013	<a href="#">Antibacterial agents in composite restorations for the prevention of dental caries</a>
Oral	2013	<a href="#">Interventions for managing relapse of the lower front teeth after orthodontic treatment</a>
Oral	2013	<a href="#">Interventions for replacing missing teeth: dental implants in zygomatic bone for the rehabilitation of the severely deficient edentulous maxilla</a>

Oral	2013	<a href="#">Interventions for the restorative care of amelogenesis imperfecta in children and adolescents</a>
Oral	2013	<a href="#">Interventions for treating traumatised permanent front teeth: luxated (dislodged) teeth</a>
Oral	2013	<a href="#">Dental extractions prior to radiotherapy to the jaws for reducing post-radiotherapy dental complications</a>
Pain, Palliative and Supportive Care	2017	<a href="#">High-dose opioids for chronic non-cancer pain: an overview of Cochrane Reviews</a>
Pain, Palliative and Supportive Care	2017	<a href="#">Paracetamol (acetaminophen) for chronic non-cancer pain in children and adolescents</a>
Pain, Palliative and Supportive Care	2017	<a href="#">Opioids for chronic non-cancer pain in children and adolescents</a>
Pain, Palliative and Supportive Care	2017	<a href="#">Non-steroidal anti-inflammatory drugs (NSAIDs) for cancer-related pain in children and adolescents</a>
Pain, Palliative and Supportive Care	2017	<a href="#">Opioids for cancer-related pain in children and adolescents</a>
Pain, Palliative and Supportive Care	2017	<a href="#">Drug therapy for symptoms associated with anxiety in adult palliative care patients</a>
Pain, Palliative and Supportive Care	2016	<a href="#">Paracetamol (acetaminophen) with or without codeine or dihydrocodeine for neuropathic pain in adults</a>
Pain, Palliative and Supportive Care	2016	<a href="#">Oxycodone for pain in fibromyalgia in adults</a>
Pain, Palliative and Supportive Care	2015	<a href="#">Levomepromazine for nausea and vomiting in palliative care</a>
Pain, Palliative and Supportive Care	2015	<a href="#">Buprenorphine for neuropathic pain in adults</a>
Pain, Palliative and Supportive Care	2015	<a href="#">Positioning and spinal bracing for pain relief in metastatic spinal cord compression in adults</a>
Pain, Palliative and Supportive Care	2015	<a href="#">Transcutaneous electrical nerve stimulation (TENS) for phantom pain and stump pain following amputation in adults</a>
Pain, Palliative and Supportive Care	2014	<a href="#">Droperidol for treatment of nausea and vomiting in palliative care patients</a>
Pain, Palliative and Supportive Care	2014	<a href="#">Medically assisted nutrition for adult palliative care patients</a>

Pain, Palliative and Supportive Care	2012	<a href="#">Clonazepam for neuropathic pain and fibromyalgia in adults</a>
Pain, Palliative and Supportive Care	2012	<a href="#">Phenytoin for neuropathic pain and fibromyalgia in adults</a>
Skin	2013	<a href="#">Oral H1 antihistamines as monotherapy for eczema</a>
Wounds	2018	<a href="#">Extracorporeal shock wave therapy for the healing and management of venous leg ulcers</a>
Wounds	2016	<a href="#">Reconstructive surgery for treating pressure ulcers</a>
Wounds	2016	<a href="#">Bed rest for pressure ulcer healing in wheelchair users</a>
Wounds	2016	<a href="#">A 'test and treat' strategy for elevated wound protease activity for healing in venous leg ulcers</a>
Wounds	2015	<a href="#">Wound-care teams for preventing and treating pressure ulcers</a>
Wounds	2015	<a href="#">Gloves, gowns and masks for reducing the transmission of meticillin-resistant Staphylococcus aureus (MRSA) in the hospital setting</a>
Wounds	2015	<a href="#">Massage therapy for preventing pressure ulcers</a>
Wounds	2015	<a href="#">Skin preparation with alcohol versus alcohol followed by any antiseptic for preventing bacteraemia or contamination of blood for transfusion</a>
Wounds	2015	<a href="#">Repositioning for treating pressure ulcers</a>
Wounds	2014	<a href="#">Wound drainage following groin dissection for malignant disease in adults</a>
Wounds	2014	<a href="#">Chinese herbal medicines for treating skin and soft-tissue infections</a>
Wounds	2013	<a href="#">Primary closure versus delayed closure for non bite traumatic wounds within 24 hours post injury</a>
Wounds	2013	<a href="#">Endovenous thermal ablation for healing venous ulcers and preventing recurrence</a>

Table 8: Public Health and Health Systems

CRG	Year	Title
Consumers & Communication	2015	<a href="#">Training and supportive programs for palliative care volunteers in community settings</a>
Consumers & Communication	2015	<a href="#">Provision of a surgeon's performance data for people considering elective surgery</a>
Consumers & Communication	2012	<a href="#">Email for the coordination of healthcare appointments and attendance reminders</a>
Consumers & Communication	2012	<a href="#">Email for communicating results of diagnostic medical investigations to patients</a>

Consumers & Communication	2011	<a href="#">Notification and support for people exposed to the risk of Creutzfeldt-Jakob disease (CJD) (or other prion diseases) through medical treatment (iatrogenically)</a>
Effective Practice & Organisation of Care	2017	<a href="#">Collaborative writing applications in healthcare: effects on professional practice and healthcare outcomes</a>
Effective Practice & Organisation of Care	2017	<a href="#">Walk-in clinics versus physician offices and emergency rooms for urgent care and chronic disease management</a>
Effective Practice & Organisation of Care	2014	<a href="#">Exit interviews to reduce turnover amongst healthcare professionals</a>
Effective Practice & Organisation of Care	2014	<a href="#">Effectiveness of different nursing handover styles for ensuring continuity of information in hospitalised patients</a>
Effective Practice & Organisation of Care	2014	<a href="#">Financial interventions and movement restrictions for managing the movement of health workers between public and private organizations in low- and middle-income countries</a>
Effective Practice & Organisation of Care	2011	<a href="#">Interventions to manage dual practice among health workers</a>
Effective Practice & Organisation of Care	2011	<a href="#">The effectiveness of strategies to change organisational culture to improve healthcare performance</a>
Infectious Diseases	2019	<a href="#">Contact tracing strategies in household and congregate environments to identify cases of tuberculosis in low- and moderate-incidence populations</a>
Infectious Diseases	2018	<a href="#">Nutritional supplements for patients being treated for active visceral leishmaniasis</a>
Infectious Diseases	2011	<a href="#">Active case finding in contacts of people with tuberculosis</a>
Tobacco Addiction	2020	<a href="#">Antiandrogen or estradiol treatment or both during hormone therapy in transitioning transgender women</a>
Tobacco Addiction	2016	<a href="#">Smoking cessation interventions for pulmonary tuberculosis treatment outcomes</a>
Tobacco Addiction	2012	<a href="#">Lobeline for smoking cessation</a>
Work	2017	<a href="#">Vocational rehabilitation for enhancing return-to-work in workers with traumatic upper limb injuries</a>
Work	2014	<a href="#">Interventions for preventing the spread of infestation in close contacts of people with scabies</a>

Figure 2: The proportion of empty reviews published by CRGs.

