

**Supplementary Material 1.** Literature search terms for each key questions (KQs).

**KQ1**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245
3. 1 AND 2 263198
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641
5. 3 OR 4 282973
6. (("liver neoplasms"[MeSH Terms] OR ((malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB])) AND ("Liver"[MeSH] OR liver[TIAB] OR hepatic[TIAB]))) AND (Neoplasm Metastasis[MeSH] OR metastatic[TIAB] OR metastasis[TIAB] OR metastases[TIAB])) OR "Liver Neoplasms/secondary"[Mesh] 85196
7. 5 AND 6 21785
8. "Magnetic Resonance Imaging"[TIAB] OR MRI[TIAB] OR MR[TIAB] 573783
9. "Magnetic Resonance Imaging"[Mesh:NoExp] 460649
10. "Positron-Emission Tomography"[Mesh] 75672
11. "Positron Emission Tomography"[TIAB] OR "Positron-Emission Tomography"[TIAB] OR PET[TIAB] OR PET-CT[TIAB] OR PET/CT[TIAB] 141628
12. 8-11/OR 859742
13. 12 AND 7 1744
14. Filters applied: from 2014/4/1 – 2022/10/18 753
15. 14 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 662

16. 15 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 636

## **KQ2**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245

3. 1 AND 2 263198

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641

5. 3 OR 4 282973

6. "Positron Emission Tomography"[TIAB] OR PET[TIAB] OR "Positron-Emission Tomography"[TIAB] OR "Computed Tomography"[TIAB] OR "Computer Assisted Tomography"[TIAB] OR CT[TIAB] OR MDCT[TIAB] OR PET/CT[TIAB] OR "Positron Emission Tomography/Computed Tomography"[TIAB] 671916

7. "Positron-Emission Tomography"[Mesh] OR "Tomography, X-Ray Computed"[Mesh] 522504

8. 6 OR 7 881788

9. Neoplasm Metastasis[MeSH] OR metastatic[TIAB] OR metastasis[TIAB] OR metastases[TIAB] 651884

10. "Colonic Neoplasms/secondary"[Mesh] 909

11. 5 AND 9 64494

12. 11 OR 10 64714

13. 12 AND 8 6612

14. 13 Filters applied: from 2014/4/1 – 2022/10/18 2921

15. 14 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 2659

16. 15 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type]

OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp])) 2590

### KQ3

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) AND (malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB]) 266313

2. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 81030

3. 1 OR 2 286103

4. "Positron Emission Tomography"[TIAB] OR PET[TIAB] OR "Positron-Emission Tomography"[TIAB] OR "Computed Tomography"[TIAB] OR "Computer Assisted Tomography"[TIAB] OR CT[TIAB] OR MDCT[TIAB] OR PET/CT[TIAB] OR "Positron Emission Tomography/Computed Tomography"[TIAB] 680540

5. "Tomography, X-Ray Computed"[Mesh] 487657

6. 1 OR 2 884359

7. "Colonography, Computed Tomographic"[Mesh] OR ((Virtual[TIAB] OR "Computed Tomographic"[TIAB] OR CT[TIAB] OR "Computed Tomography"[TIAB]) AND Colonography[TIAB]) 2724

8. Colonoscopic[TIAB] OR Colonoscopies[TIAB] OR Colonoscopy[TIAB] OR Sigmoidoscopies[TIAB] OR Proctosigmoidoscopy[TIAB] OR Proctosigmoidoscopies[TIAB] OR Sigmoidoscopy[TIAB] OR "Colonoscopy"[Mesh] 52059

9. obstructive[TIAB] OR obstruction[TIAB] OR occlusive[TIAB] OR occlusion[TIAB] OR obstructing[TIAB] OR obstructed[TIAB] OR obstructions[TIAB] 503583

10. 3 AND 9 AND (6 OR 7 OR 8) 1716

11. 10 AND Filters: from 2011/1/1 – 2022/12/24 1036

12. 11 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 935

13. 12 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 921

#### **KQ4**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 397400

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3660227

3. 1 AND 2 261394

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80411

5. 3 OR 4 281160

6. "endoscopy"[MeSH Terms] OR "endoscopy"[TIAB] OR "endoscopies"[TIAB] OR "endoscopic"[TIAB] OR "colonoscopy"[MeSH Terms] OR "colonoscopy"[TIAB] OR "colonoscopies"[TIAB] OR "Endoscopy, Gastrointestinal"[Mesh:NoExp] 511312

7. resection[TIAB] OR dissection[TIAB] OR removal[TIAB] OR surgery[TIAB] OR postpolypectomy[TIAB] OR postpolypectomy[TIAB] OR resections[TIAB] OR dissections[TIAB] OR surgeries[TIAB] 2081729

8. 5 AND 6 AND 7 13605

9. "margins of excision"[MeSH Terms] OR "margin"[TIAB] OR "margins"[TIAB] OR "neoplasm invasiveness"[TIAB] OR "lymph node"[TIAB] OR "invasion depth"[TIAB] OR "submucosal invasion"[TIAB] OR staging[TIAB] OR "pathologic diagnosis"[TIAB] OR "neoplasm staging"[MeSH Terms] 468464

10. "tumour budding"[TIAB] OR "tumor budding"[TIAB] OR "tumor budding"[TIAB] OR "tumour buddings"[TIAB] 919

11. 10 AND 8 63

12. 8 AND 9 3497

13. 12 Filters applied: from 2014/04/01 – 2022/9/9 1842
14. 13 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 1633
15. 14 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 1606
16. 11 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 47
17. 16 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 47
18. 17 OR 15 1620

## **KQ5**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 397213
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3658740
3. 1 AND 2 261264
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80365
5. 3 OR 4 281026
6. "self-expandable metal stent"[TIAB] OR "self-expandable metallic stent"[TIAB] OR sems[TIAB] 3112
7. ("stents"[MeSH Terms] OR "stents"[TIAB] OR "stent"[TIAB]) 122503
8. 6 OR 7 123363
9. 5 AND 8 1627
10. 9 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 1404
11. 10 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 1294
12. 9 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR "meta

analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 75

## **KQ6**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100
3. 1 AND 2 260755
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316
5. 3 OR 4 280515
6. "lymph node excision"[MeSH Terms] OR "central vascular ligation"[TIAB] OR "D3 dissection"[TIAB] OR "D3 lymphadenectomy"[TIAB] OR "extended lymphadenectomy"[TIAB] OR "Lymph Node Excision"[TIAB] OR (D3[TIAB] AND (("lymph"[TIAB] AND "node"[TIAB] AND "excision"[TIAB]) OR "lymph node excision"[TIAB] OR "lymphadenectomies"[TIAB])) OR "complete mesocolic excision"[TIAB] 54139
7. 5 AND 6 2632
8. ascending[TIAB] OR Right[TIAB] 637975
9. 7 AND 8 653

10. 9 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 597
11. 10 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 555
12. 9 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*" [TW] OR "metaanaly\*" [TW] OR "meta analysis"[Publication Type] OR "systematic review\*" [TW] OR "systematic overview\*" [TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psychlit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*" [TIAB] OR "bibliograph\*" [TIAB] OR "hand-search\*" [TIAB] OR "relevant journals"[TIAB] OR "manual search\*" [TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 22

## **KQ7**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245
3. 1 AND 2 263198
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641
5. 3 OR 4 282973
6. "Lymph Nodes"[Mesh] OR (Lymph[tiab] AND (Node[tiab] OR Nodes[tiab])) 271393
7. 6 AND 5 14367
8. 7 Filters applied: from 2015/01/01 – 2022/10/18 6219
9. 8 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 5790

1. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 5616

## **KQ8**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100

3. 1 AND 2 260755

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316

5. 3 OR 4 280515

6. "colorectal neoplasms, hereditary nonpolyposis"[MeSH Terms] OR "hereditary non-polyposis colon cancer syndrome"[TIAB] OR ("lynch"[TIAB] AND "syndrome"[TIAB]) OR "lynch syndrome"[TIAB] 6743

7. ("hereditary"[TIAB] AND "nonpolyposis"[TIAB]) OR "hereditary nonpolyposis"[TIAB] 3236

8. 6 OR 7 7757

9. 5 AND 8 5916

10. "Microsatellite Instability"[Mesh] OR "DNA Mismatch Repair"[Mesh] OR "Microsatellite Instability"[TIAB] OR MSI[TIAB] OR "Mismatch Repair"[TIAB] 23991

11. pedigree[TIAB] OR "Amsterdam criteria"[TIAB] 16178

12. 10 OR 11 39808

13. 9 AND 12 3624

14. 13 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 2948

15. 14 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 2830

1. 13 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR "meta



analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 58

## **KQ9**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245
3. 1 AND 2 263198
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641
5. 3 OR 4 282973
6. Neoplasm Metastasis[MeSH] OR metastatic[TIAB] OR metastasis[TIAB] OR metastases[TIAB] 651884
7. 5 AND 6 64496
8. "Colonic Neoplasms/secondary"[Mesh] 909
9. 7 OR 8 64716
10. (EGFR[TIAB] OR BRAF[TIAB] OR "RAS GENE"[TIAB] OR RAS[TIAB] OR K-RAS[TIAB]) AND ("Cetuximab"[Mesh] OR cetuximab[TIAB]) 4208
11. 9 AND 10 1403

12. 11 Filters applied: from 2011/1/1 – 2022/10/18 1090
13. 12 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 861
14. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 839
15. (EGFR[TIAB] OR BRAF[TIAB] OR "RAS GENE"[TIAB] OR RAS[TIAB] OR K-RAS[TIAB]) AND ("encorafenib" [Supplementary Concept] OR "Bevacizumab"[Mesh] OR "Panitumumab"[Mesh] OR "afibercept" [Supplementary Concept] OR "binimetinib" [Supplementary Concept] OR encorafenib[TIAB] OR bevacizumab[TIAB] OR panitumumab[TIAB] OR afibercept[TIAB] OR binimetinib[TIAB]) 2793
16. NRAS[TIAB] AND ("Cetuximab"[Mesh] OR "encorafenib" [Supplementary Concept] OR "Bevacizumab"[Mesh] OR "Panitumumab"[Mesh] OR "afibercept" [Supplementary Concept] OR "binimetinib" [Supplementary Concept] OR cetuximab[TIAB] OR encorafenib[TIAB] OR bevacizumab[TIAB] OR panitumumab[TIAB] OR afibercept[TIAB] OR binimetinib[TIAB]) 317
17. 9 AND (15 OR 16) 1325
18. 17 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 941
19. 18 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 926
20. 14 OR 19 1297

## **KQ10**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245
3. 1 AND 2 263198
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641

5. 3 OR 4 282973

6. "Chemotherapy, Adjuvant"[Mesh] 45506

7. ("post operative"[tiab] OR "post-operative"[tiab] OR adjuvant[tiab]) AND (Chemotherapeutic[tiab] OR Anticancer[tiab] OR Chemotherapy[tiab] OR Chemotherapies[tiab] OR "Fluorouracil"[Mesh] OR "Capecitabine"[Mesh] OR "5-fluoropyrimidine"[Supplementary Concept] OR "Oxaliplatin"[Mesh] OR fluorouracil[TIAB] OR fluoropyrimidine[TIAB] OR oxaliplatin[TIAB] OR capecitabine[TIAB]) 57936

8. 6 OR 7 86274

9. 5 AND 8 9585

10. 9 Filters applied: from 2011/01/01 – 2022/10/18 5491

11. 10 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 4752

12. 11 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 4583

## **KQ11**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100

3. 1 AND 2 260755

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316

5. 3 OR 4 280515

6. "oxaliplatin"[MeSH Terms] OR oxaliplatin[TIAB] OR mFOLFOX[TIAB] OR FOLFOX[TIAB] OR XELOX[TIAB] OR CAPEOX[TIAB] OR CAPOX[TIAB] 15505

7. (adjuvant[TIAB] AND chemotherapy[TIAB]) OR "Chemotherapy, Adjuvant"[MeSH] 80172

8. 5 AND 6 AND 7 1658

9. 8 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 1295
10. 9 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 1276
11. 10 AND (groups[tiab] OR trial[TIAB] OR randomly[TIAB] OR placebo[TIAB] OR randomized[TIAB] OR "clinical trial"[PT] OR "randomized controlled trial"[PT] OR "clinical trial"[TIAB] ) NOT (animals[MH] NOT (humans[MH] AND animals[MH])) 497
12. 8 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR "meta analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psychlit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 70

## **KQ12**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100
3. 1 AND 2 260755
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316
5. 3 OR 4 280515
6. "Microsatellite Instability"[Mesh]) OR "DNA Mismatch Repair"[Mesh] 6986

7. "Microsatellite Instability"[TIAB] OR "dMMR/MSI-H"[TIAB] OR MSI[TIAB] OR dMMR[TIAB] OR Mismatch Repair[TIAB] 23090
8. 6 OR 7 24005
9. "Ipilimumab"[TIAB] OR "Nivolumab"[TIAB] OR "pembrolizumab" [TIAB] OR "immune check point"[TIAB] OR "immune check-point"[TIAB]14168
10. (("Ipilimumab"[Mesh]) OR "Nivolumab"[Mesh]) OR "pembrolizumab" [Supplementary Concept] 8538
11. 9 OR 10 15588
12. 5 AND 8 AND 11 248
13. 12 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 159
14. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 149
15. 12 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*" [TW] OR "metaanaly\*" [TW] OR "meta analysis"[Publication Type] OR "systematic review\*" [TW] OR "systematic overview\*" [TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*" [TIAB] OR "bibliograph\*" [TIAB] OR "hand-search\*" [TIAB] OR "relevant journals"[TIAB] OR "manual search\*" [TIAB] OR ("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 9

### **KQ13**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR

Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100

3. 1 AND 2 260755

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316

5. 3 OR 4 280515

6. "Neoadjuvant Therapy"[Mesh] 26453

7. "neoadjuvant"[TIAB] OR preoperative[TIAB] OR pre-op[TIAB] 359116

8. 6 OR 7 364074

9. 5 AND 8 11806

10. "oxaliplatin"[MeSH Terms] OR oxaliplatin[TIAB] OR mFOLFOX[TIAB] OR FOLFOX[TIAB] OR XELOX[TIAB] OR CAPEOX[TIAB] 15468

11. 9 AND 10 680

12. 11 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*" [TW] OR "metaanaly\*" [TW] OR "meta analysis"[Publication Type] OR "systematic review\*" [TW] OR "systematic overview\*" [TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*" [TIAB] OR "bibliograph\*" [TIAB] OR "hand-search\*" [TIAB] OR "relevant journals"[TIAB] OR "manual search\*" [TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 26

13. 11 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 533

14. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 527

## **KQ14**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large

intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245

3. 1 AND 2 263198

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641

5. 3 OR 4 282973

6. ((Liver[TIAB] OR Hepatic[TIAB] OR Hepatocellular[TIAB]) AND (Metastatic[TIAB] OR Metastase[TIAB] OR Metastases[TIAB] OR Metastasis[TIAB] OR "Neoplasm Metastasis"[Mesh])) or "Liver Neoplasms/secondary"[Mesh] 89679

7. 5 AND 6 22083

8. resection[TIAB] OR surgery[TIAB] OR hepatectomy[TIAB] OR surgical[TIAB] OR resectable[TIAB] OR resections[TIAB] OR surgeries[TIAB] OR hepatectomies[TIAB] OR "hepatectomy"[Mesh] OR Hepatectomies[TIAB] 2273071

9. "microwave ablation"[TIAB] OR "microwave therapy"[TIAB] OR "local ablation"[TIAB] OR "reginal ablation"[TIAB] OR "Radiofrequency Ablation"[Mesh:NoExp] OR RFA[TIAB] 12257

10. "upfront surgery"[TIAB] OR "preoperative chemotherapy"[TIAB] OR "perioperative chemotherapy"[TIAB] OR "neoadjuvant chemotherapy"[TIAB] OR "conversion chemotherapy"[TIAB] OR "upfront surgeries"[TIAB] OR "chemotherapies"[TIAB] OR "preoperative chemotherapies"[TIAB] OR "perioperative chemotherapies"[TIAB] OR "neoadjuvant chemotheraphies"[TIAB] OR "conversion chemotherapies"[TIAB] 13707

11. 8-10/OR 2289659

12. 7 AND 11 10661

13. 12 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 8970

14. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 8628

15. 14 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR

"meta analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 370

## **KQ15**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506
2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3652100
3. 1 AND 2 260755
4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316
5. 3 OR 4 280515
6. (Lung[TIAB] OR Pulmonary[TIAB]) AND (Metastatic[TIAB] OR Metastase[TIAB] OR Metastases[TIAB] OR Metastasis[TIAB] OR "Neoplasm Metastasis"[Mesh]) 101303
7. "Lung Neoplasms/secondary"[Mesh] 30030
8. 6 OR 7 111846
9. 5 AND 8 9484
10. "metastasectomy"[MeSH Terms] OR "metastasectomy"[TIAB] OR "Precision excision"[TIAB] OR "Wedge resection"[TIAB] OR "segmentectomy"[TIAB] OR "lobectomy"[TIAB] OR "bilobectomy"[TIAB] OR "pneumonectomy"[TIAB] OR "pneumonectomy"[MeSH Terms] OR



"mastectomy, segmental"[MeSH Terms] OR "Lung Volume Reduction"[TIAB] OR Metastasectomies[TIAB] OR "segmentectomies"[TIAB] OR "lobectomies"[TIAB] OR "bilobectomies"[TIAB] OR "pneumonectomies"[TIAB] OR "Pulmonary Surgical Procedures"[Mesh:NoExp] 66181

11. 9 AND 10 894

12. 11 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR "meta analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psychlit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 31

13. 11 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 863

14. 13 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 743

## **KQ16**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 399875

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR Tumor[TIAB] OR Tumour[TIAB] 3684245

3. 1 AND 2 263198

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80641

5. 3 OR 4 282973

6. Neoplasm Metastasis[MeSH] OR metastatic[TIAB] OR metastasis[TIAB] OR metastases[TIAB]  
651884

7. 5 AND 6 64496

8. "Colonic Neoplasms/secondary"[Mesh] 909

9. 7 OR 8 64716

10. ("Palliative Care"[Mesh] OR "Salvage Therapy"[Mesh] OR "second line"[TIAB] OR  
palliative[TIAB] OR Salvage[TIAB]) AND (Chemotherapeutic[TIAB] OR Chemotherapy[TIAB] OR  
Chemotherapies[TIAB] OR "Fluorouracil"[Mesh] OR "Capecitabine"[Mesh] OR "5-fluoropyrimidine"  
[Supplementary Concept] OR "Oxaliplatin"[Mesh] OR fluorouracil[TIAB] OR fluoropyrimidine[TIAB]  
OR oxaliplatin[TIAB] OR capecitabine[TIAB] OR "Cetuximab"[Mesh] OR "Bevacizumab"[Mesh] OR  
"Panitumumab"[Mesh] OR "aflibercept"[Supplementary Concept] or "Irinotecan"[Mesh] OR  
cetuximab[TIAB] OR bevacizumab[TIAB] OR panitumumab[TIAB] OR aflibercept[TIAB] OR  
"Irinotecan"[TIAB]) 33544

11. 10 AND 9 2434

12. 11 Filters applied: from 2011/01/01 – 2022/10/18 1444

13. 12 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 1197

14. 13 NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type]  
OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 1183

## **KQ17**

1. (colon[TIAB] OR colons[TIAB] OR colonic[TIAB] OR "large bowel"[TIAB] OR "large  
intestine"[TIAB] OR Colorectal[TIAB] OR Sigmoid[TIAB] OR Sigmoidal[TIAB]) 396506

2. malignancy[TIAB] OR Neoplasia[TIAB] OR Neoplasm[TIAB] OR cancer[TIAB] OR  
carcinoma[TIAB] OR adenocarcinoma[TIAB] OR cancers[TIAB] OR malignant[TIAB] OR  
Neoplasms[TIAB] OR carcinomas[TIAB] OR adenocarcinomas[TIAB] OR malignancies[TIAB] OR  
Tumor[TIAB] OR Tumour[TIAB] 3652100

3. 1 AND 2 260755

4. "Colonic Neoplasms"[Mesh:noexp] OR "Sigmoid Neoplasms"[Mesh] 80316
5. 3 OR 4 280515
6. "Peritoneal Neoplasms/secondary"[Mesh] 5933
7. (Peritoneal[TIAB] OR peritonei[TIAB]) AND (Metastatic[TIAB] OR Metastase[TIAB] OR Metastases[TIAB] OR Metastasis[TIAB] OR "Neoplasm Metastasis"[Mesh] OR carcinomatosis[TIAB]) 15112
8. 6 OR 7 17419
9. 8 AND 5 3801
10. "hyperthermic intraperitoneal chemotherapy"[MeSH Terms] OR "hyperthermic intraperitoneal chemotherapy"[TIAB] OR HIPEC[TIAB] 3405
11. 9 AND 10 917
12. 11 NOT ("review"[Publication Type] OR "review literature as topic"[MeSH Terms]) 723
13. NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 688
14. 11 AND ("Meta Analysis as Topic"[Mesh] OR "meta analy\*"[TW] OR "metaanaly\*"[TW] OR "meta analysis"[Publication Type] OR "systematic review\*"[TW] OR "systematic overview\*"[TW] OR "Review Literature as Topic"[Mesh] OR cochrane[TIAB] OR embase[TIAB] OR psychlit[TIAB] OR psyclit[TIAB] OR psychinfo[TIAB] OR psycinfo[TIAB] OR cinahl[TIAB] OR cinhal[TIAB] OR "science citation index"[TIAB] OR bids[TIAB] OR cancerlit[TIAB] OR "reference list\*"[TIAB] OR "bibliograph\*"[TIAB] OR "hand-search\*"[TIAB] OR "relevant journals"[TIAB] OR "manual search\*"[TIAB] OR (("selection criteria"[TIAB] OR "data extraction"[TIAB]) AND review[Publication Type])) NOT (Comment[Publication Type] OR Letter[Publication Type] OR Editorial[Publication Type] OR ("Animals"[Mesh:NoExp] NOT ("Humans"[Mesh] AND "Animals"[Mesh:NoExp]))) 67