

Search criteria

A comprehensive and selective search methodology was created by successive searches of specific primary cancers using an iterative process. Final publications were excluded if they only focused on systemic therapy, diagnostic, duplicate, not peritoneal carcinomatosis, or otherwise outside of scope.

The following primary cancers were excluded initially as they are outside of the scope of this review:

- ❖ Appendiceal or pseudomyxoma peritonei, colon and colorectal, gastric, gynecologic, and mesothelioma.

The following benign, infectious, or other abdominal diseases were excluded:

- ❖ Tuberculosis, aspergillosis, coccidiomycosis, xanthoma disseminatum, fibromatosis, fibrous masses or tumors, sclerosing mesenteritis, Castleman's disease, teratoma, cystic disease or masses, lipomas, lymphangiomas, leiomyomatosis peritonealis disseminata.

Other primary malignancies were excluded including those described below due primary medical management, low number of cases, or unclear management due to the rarity of presentation:

- ❖ Central nervous system malignancies with iatrogenic peritoneal dissemination;
- ❖ Primary lung cancers with peritoneal dissemination;
- ❖ Esophageal disease with peritoneal dissemination;
- ❖ Hematological malignancy with peritoneal lymphomatosis;
- ❖ Primary skin malignancy with peritoneal dissemination;
- ❖ Oropharyngeal malignancy with peritoneal dissemination;
- ❖ Thyroid malignancy with peritoneal dissemination.

Iterative searches

Prostate

((peritoneal carcinomatosis OR peritoneal metastasis) AND (prostate)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian)

Pancreas

((peritoneal carcinomatosis OR peritoneal metastasis) AND (pancreas OR pancreatic)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian)

Liver/hepatobiliary

((peritoneal carcinomatosis OR peritoneal metastasis) AND (gallbladder OR hepatocellular carcinoma OR liver OR hepatobiliary)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR melanoma OR medulloepithelioma OR small bowel OR small intestine OR ileum OR jejunum OR duodenum OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR thyroid OR serous carcinoma OR spleen OR bladder OR plasma cell OR renal cell carcinoma OR kidney OR renal OR testicle OR corticoadrenaloma OR spinal cord OR pheochromocytoma OR prostate OR pancreas OR pancreatic)

Lung

((peritoneal carcinomatosis OR peritoneal metastasis) AND (lung)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR prostate OR pancreas OR pancreatic OR gallbladder OR liver OR hepatobiliary OR hepatocellular carcinoma OR gallbladder OR brain OR CNS OR spinal cord OR breast OR neuroendocrine OR sarcoma OR anaplastic ependymoma OR lymphoma OR histiocytosis OR melanoma OR medulloepithelioma OR small bowel OR small intestine OR ileum OR jejunum OR

duodenum OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR serous carcinoma OR spleen OR bladder OR plasma cell OR renal cell carcinoma OR thyroid OR kidney OR renal OR testicle OR corticoadrenaloma OR pheochromocytoma OR desmoplastic round small cell tumor)

Brain and/or central nervous system

((peritoneal carcinomatosis OR peritoneal metastasis) AND (brain OR CNS OR spinal cord OR anaplastic ependymoma OR medulloepithelioma)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR prostate OR pancreas OR pancreatic OR gallbladder OR liver OR hepatobiliary OR hepatocellular carcinoma OR gallbladder OR breast OR neuroendocrine OR sarcoma OR lymphoma OR histiocytosis OR melanoma OR small bowel OR small intestine OR ileum OR jejunum OR duodenum OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR serous carcinoma OR spleen OR bladder OR plasma cell OR renal cell carcinoma OR thyroid OR kidney OR renal OR testicle OR corticoadrenaloma OR pheochromocytoma OR desmoplastic round small cell tumor OR lung)

Breast

((peritoneal carcinomatosis OR peritoneal metastasis) AND (breast)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR prostate OR pancreas OR pancreatic OR gallbladder OR liver OR hepatobiliary OR hepatocellular carcinoma OR gallbladder OR neuroendocrine OR sarcoma OR anaplastic ependymoma OR lymphoma OR histiocytosis OR melanoma OR medulloepithelioma OR small bowel OR small intestine OR ileum OR jejunum OR duodenum OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR serous carcinoma OR spleen OR bladder

OR plasma cell OR renal cell carcinoma OR thyroid OR kidney OR renal OR testicle OR corticoadrenaloma OR pheochromocytoma OR desmoplastic round small cell tumor OR lung OR brain OR CNS OR spinal cord)

Small bowel

((peritoneal carcinomatosis OR peritoneal metastasis) AND (small bowel OR small intestine OR ileum OR jejunum OR duodenum)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR prostate OR pancreas OR pancreatic OR gallbladder OR liver OR hepatobiliary OR hepatocellular carcinoma OR gallbladder OR neuroendocrine OR sarcoma OR anaplastic ependymoma OR lymphoma OR histiocytosis OR melanoma OR medulloepithelioma OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR serous carcinoma OR spleen OR bladder OR plasma cell OR renal cell carcinoma OR thyroid OR kidney OR renal OR testicle OR corticoadrenaloma OR pheochromocytoma OR desmoplastic round small cell tumor OR lung OR brain OR CNS OR spinal cord OR breast)

Neuroendocrine

((peritoneal carcinomatosis OR peritoneal metastasis) AND (neuroendocrine)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian)

Urologic

((peritoneal carcinomatosis OR peritoneal metastasis) AND (urachal OR urothelial OR bladder OR renal cell carcinoma OR kidney OR renal OR testicle)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma

peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR prostate OR pancreas OR pancreatic OR gallbladder OR liver OR hepatobiliary OR hepatocellular carcinoma OR gallbladder OR neuroendocrine OR sarcoma OR anaplastic ependymoma OR lymphoma OR histiocytosis OR melanoma OR medulloepithelioma OR small bowel OR small intestine OR ileum OR jejunum OR duodenum OR gastrointestinal stromal tumor OR papillary thyroid OR serous carcinoma OR spleen OR plasma cell OR thyroid OR corticoadrenaloma OR pheochromocytoma OR desmoplastic round small cell tumor OR lung OR brain OR CNS OR spinal cord OR breast)

Hematological

((peritoneal carcinomatosis OR peritoneal metastasis) AND (leukemia OR lymphoma OR histiocytosis OR plasma cell)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma)

Melanoma

((peritoneal carcinomatosis OR peritoneal metastasis) AND (melanoma)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell)

Sarcoma

((peritoneal carcinomatosis OR peritoneal metastasis) AND (sarcoma OR gastrointestinal stromal tumor OR GIST OR desmoplastic small round cell tumor OR peritoneal sarcomatosis OR liposarcoma OR leiomyosarcoma OR desmoplastic small round blue cell tumor)) NOT (ovarian

OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell OR melanoma)

Adrenal

((peritoneal carcinomatosis OR peritoneal metastasis) AND (neuroblastoma OR corticoadrenaloma OR pheochromocytoma OR adrenal OR ACC OR adrenal cortical carcinoma)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell OR melanoma)

Thyroid

((peritoneal carcinomatosis OR peritoneal metastasis) AND (papillary thyroid OR thyroid)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell OR melanoma)

Esophagus

((peritoneal carcinomatosis OR peritoneal metastasis) AND (esophagus OR esophageal)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR

fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell OR melanoma)

Spleen

((peritoneal carcinomatosis OR peritoneal metastasis) AND (spleen OR splenic)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma)

Head and neck

((peritoneal carcinomatosis OR peritoneal metastasis) AND (head and neck OR oral OR pharynx OR nasopharynx OR oropharynx OR hypopharynx OR larynx OR nasal cavity OR paranasal sinus OR salivary gland)) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR leukemia OR lymphoma OR histiocytosis OR plasma cell OR melanoma)

All other

(peritoneal carcinomatosis OR peritoneal metastasis) NOT (ovarian OR endometrial OR gynecologic OR stomach OR gastric OR colorectal OR colonic OR colon OR rectum OR mesothelioma OR appendiceal OR pseudomyxoma peritonei OR rectal OR tuberculosis OR tuberculous OR fibromatosis OR aspergillosis OR appendix OR uterine OR uterus OR xanthoma disseminatum OR asbestos OR fallopian OR serous carcinoma OR prostate OR pancreas OR hepatocellular carcinoma OR lung OR brain OR breast OR anaplastic ependymoma OR liver OR lymphoma OR histiocytosis OR sarcoma OR pancreatic OR neuroendocrine OR gallbladder OR melanoma OR medulloepithelioma OR small bowel OR small intestine OR ileum OR jejunum OR duodenum OR urachal OR urothelial OR gastrointestinal stromal tumor OR papillary thyroid OR spleen OR bladder OR plasma cell OR renal cell carcinoma OR thyroid OR kidney OR renal OR testicle OR corticoadrenaloma OR spinal cord OR CNS OR hepatobiliary OR pheochromocytoma OR desmoplastic small round cell tumor OR esophagus OR adrenal OR ACC OR adrenal cortical carcinoma OR leukemia OR peritoneal sarcomatosis OR liposarcoma OR leiomyosarcoma OR GIST OR desmoplastic small round blue cell tumor OR neuroblastoma OR esophageal OR splenic OR head and neck OR oral OR pharynx OR nasopharynx OR oropharynx OR hypopharynx OR larynx OR nasal cavity OR paranasal sinus OR salivary gland)