

MEDICAL POLICY

MEDICAL POLICY DETAILS	
Medical Policy Title	CRYOSURGICAL TUMOR ABLATION
Policy Number	7.01.03
Category	Technology Assessment
Effective Date	10/18/01
Revised Date	06/20/02, 05/21/03, 05/19/04, 03/17/05, 02/16/06, 12/21/06, 12/20/07, 12/18/08, 11/19/09, 11/18/10, 10/20/11, 10/18/12, 08/15/13, 08/21/14, 05/28/15, 05/25/16, 05/18/17, 04/19/18, 04/18/19
Product Disclaimer	<ul style="list-style-type: none"> • If a product excludes coverage for a service, it is not covered, and medical policy criteria do not apply. • If a commercial product (including an Essential Plan product) or a Medicaid product covers a specific service, medical policy criteria apply to the benefit. • If a Medicare product covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.

POLICY STATEMENT

- I. Based upon our criteria and assessment of peer-reviewed literature, cryosurgical ablation of renal tumors is a **medically appropriate** treatment option when tumor size is 4 cm or less in diameter. There MUST be documentation that there has been an informed decision making process between the surgeon and the patient and the patient is willing to accept a possible lower oncological efficacy and higher chance of local recurrence.
- II. Based upon our criteria and assessment of peer-reviewed literature, cryosurgical tumor ablation has not been medically proven to be effective and is considered **investigational** as a treatment method for any other tumor, including but not limited to, primary/metastatic liver malignancies, breast tumors (benign and malignant), pulmonary tumors (primary and malignant), and pancreatic cancer.

Refer to Corporate Medical Policy # 7.01.01 regarding Cryosurgery for Prostate Cancer.

Refer to Corporate Medical Policy #7.01.32 regarding Radiofrequency Tumor Ablation.

Refer to Corporate Medical Policy # 7.01.69 regarding Selective Internal Radiation Therapy (SIRT)for Hepatic Tumors.

Refer to Corporate Medical Policy # 7.01.78 regarding Peptide Receptor Radionuclide Therapy (PRRT).

Refer to Corporate Medical Policy # 11.01.03 regarding Experimental and Investigational Services.

POLICY GUIDELINES

The Federal Employee Health Benefit Program (FEHBP/FEP) requires that procedures, devices or laboratory tests approved by the U.S. Food and Drug Administration (FDA) may not be considered investigational and thus these procedures, devices or laboratory tests may be assessed only on the basis of their medical necessity.

DESCRIPTION

Cryosurgical ablation is the oldest of the local thermal ablation techniques. Cryosurgical ablation is a method of in situ tumor ablation in which subfreezing temperatures are delivered through penetrating or surface cryoprobes in which a cryogen is circulated. Cell death is caused by direct freezing, denaturation of cellular proteins, cell membrane rupture, cell dehydration and ischemic hypoxia. Cryosurgical ablation may be used for the destruction of metastatic tumors in situ or for the destruction of microscopic residual carcinoma in the case of close surgical margins. It may be performed as an open surgical technique or as a closed procedure either under laparoscopic or percutaneous ultrasound/MRI guidance.

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Cryosurgery has been proposed as a treatment of unresectable liver tumors, of bronchogenic/lung cancer, of renal cell carcinoma (RCC) as a nephron-sparing procedure, as a nonsurgical alternative to surgical excision of breast fibroadenomas and breast cancer and as a treatment for pancreatic cancer.

RATIONALE

Renal cancer:

Renal ablation traditionally has been reserved for patients who are poor candidates for surgery or in whom renal preservation is paramount. However, with some reports on oncologic efficacy approaching that of partial nephrectomy (PN), some centers are now considering renal ablation as a first-line option for young, healthy patients with small tumors. The 2009 guidelines from the American Urological Association on stage one renal masses indicate percutaneous or laparoscopic cryoablation “is an available treatment option for the patient at high surgical risk who wants active treatment and accepts the need for long-term radiographic surveillance after treatment”. The guidelines also indicate cryoablation “should be discussed as a less-invasive treatment option” in healthy patients with a renal mass equal to or less than 4.0 cm and clinical stage T1a. Patients should be informed that “local tumor recurrence is more likely than with surgical excision, measures of success are not well defined, and surgical salvage may be difficult.”

Georgiades and Rodriguez (2014) presented the five-year oncologic outcomes of a prospective trial evaluating percutaneous cryoablation as a treatment option for RCC. Over a five-year period, 134 consecutive patients with biopsy-proven RCC were treated with CT-guided percutaneous cryoablation. All were treated while under conscious sedation. Technical objective was for the ice ball to cover the lesion plus a 5-mm margin. Hydro- or air dissection was utilized to aid in technical success as needed. Efficacy was defined as the lack of enhancement and/or enlargement of a previously enhancing lesion on follow-up imaging. Safety was assessed by the common terminology criteria for adverse events (CTCAE), version 4.0. The 1-, 2-, 3-, 4-, and 5-year efficacy of percutaneous cryoablation for RCC was 99.2, 99.2, 98.9, 98.5, and 97.0 %, respectively. Median tumor size was 2.8 ± 1.4 cm. All-cause mortality during the study period was three (none from RCC), yielding an overall five-year survival of 97.8 %. The cancer-specific five-year survival was 100 %. No patient developed metastatic disease during the follow-up period. The overall significant CTCAE version 4.0 complication rate was 6 %, with the most frequent being transfusion-requiring hemorrhage, at 1.6 %. There was one 30-day mortality unrelated to the procedure. Investigators concluded CT-guided percutaneous cryoablation for renal cancer offers very high efficacy, approaching that of the gold standard, with a more favorable safety profile.

Johnson, et al. (2014) reported on the long-term oncologic outcomes of laparoscopic cyroablation for clinical stage T1 renal masses at the Medical College of Wisconsin via a retrospective chart review. A total of 171 renal masses in 144 patients were treated by laparoscopic cryoablation from February 2000 through October 2009. After excluding patients with less than five years follow-up and those with greater than clinical stage I disease, 112 renal masses treated in 92 patients remained for analysis. Mean patient age was 59.6 years (standard deviation (SD), 12.5 years). Mean lesion size was 2.3 cm (SD, 0.94 cm). Mean age adjusted Charlson comorbidity index was 4.55 (SD, 1.69). Mean follow-up was 97.9 months (SD, 24.8 months). Overall survival among all patients was 80.9%. Lesions were biopsy proven to be malignant in 70 patients (76.3%). Of those with biopsy-proven malignancy, there were six recurrences, 14 non-cancer-related deaths, and one cancer-related death, leading to an overall survival of 77.6%, progression-free survival of 91.0%, and cancer-specific survival of 98.5%. The authors concluded that laparoscopic cryoablation is both an efficacious treatment for clinical stage T1 renal masses and provides excellent long-term oncologic outcomes.

RH Thompson, et al. (2014) compared oncologic outcomes among patients treated with partial nephrectomy (PN), percutaneous radiofrequency ablation (RFA) and percutaneous cryoablation. A total of 1803 patients with primary cT1N0M0 renal masses treated between 2000 and 2011 were identified from the prospectively maintained Mayo Clinic Renal Tumor Registry. Of the 1424 cT1a patients, 1057 underwent PN, 180 underwent RFA, and 187 underwent cryoablation. Outcome measures included local recurrence-free, metastases-free, and overall survival rates were estimated using the Kaplan-Meier method and compared with log-rank tests. In this cohort, local recurrence-free survival was similar among the three treatments ($p=0.49$), whereas metastases-free survival was significantly better after PN ($p=0.005$) and cryoablation ($p=0.021$) when compared with RFA. Of the 379 cT1b patients, 326 patients underwent PN, and 53 patients were managed with cryoablation (8 RFA patients were excluded). In this cohort, local recurrence-free survival ($p=0.81$) and metastases-free survival ($p=0.45$) were similar between PN and cryoablation. In both the cT1a and cT1b groups, PN patients were significantly younger, with lower Charlson scores and had superior overall survival ($p<0.001$ for

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all). The authors concluded that that recurrence-free survival was similar for PN and percutaneous ablation patients. Metastases-free survival was superior for PN and cryoablation patients when compared with RFA for cT1a patients. Overall survival was superior after PN, likely because of selection bias. If these results were validated, an update to clinical guidelines would be warranted. Limitations include retrospective review and selection bias.

Larcher A., et al. (2015) conducted a single center, retrospective analysis to determine if laparoscopic renal cryoablation (LRC) could provide an effective long-term cancer control in 174 consecutive patients with a single cT1a small renal mass (SRM) and no previous history of RCC. Median patient age was 66 years with median tumor size 20mm. Median follow-up was 48 months. Treatment failure was evaluated one day after surgery. Local recurrence, metachronous SRM, systemic progression, disease relapse, cancer-specific mortality, and all-cause mortality were evaluated 10 years after surgery. Kaplan-Meier plots were used to depict outcome-free survival rate. Among patients with biopsy-proven RCC (63%, n = 109), the treatment failure-free rate was 98%. The 10-year recurrence-free survival rate was 95% and the 10-year metachronous SRM-free survival rate was 87%. The 10-year systemic progression-free survival rate was 100% and the 10-year disease relapse-free survival rate was 81%. The cancer-specific mortality-free survival rate was 100%, and the all-cause mortality-free survival rate was 61%. The authors concluded that LRC provides safe long-term cancer control in patients newly diagnosed with a single cT1a SRM. Treatment failure and local recurrence are uncommon. Systemic progression-free survival and cancer-specific-free survival are optimal.

The current evidence on cryoablation for all other indications consists largely of non-comparative, case series and is insufficient to permit conclusions concerning the effect of cryoablation on health outcomes. The outcomes of these case series are inconclusive due to heterogeneity of the patient populations being studied and to the lack of long-term data on the effectiveness of cryosurgical ablation on overall survival. Most case series report only short-term outcomes such as tumor response in terms of shrinkage and tumor recurrence. Comparative studies with already established treatments, larger numbers of subjects, and longer follow-up are needed.

Liver:

A BlueCross BlueShield TEC Assessment (2000) found insufficient data to permit conclusions regarding the effect of cryosurgical ablation on the health outcomes of patients with unresectable hepatocellular carcinoma (HCC) or metastatic liver disease. This conclusion applied to performing cryosurgery alone, as an adjunct to surgical resection or combined with other ablative therapies. Peer-reviewed literature published since the 2000 TEC Assessment consist mainly of uncontrolled case series with heterogeneity in the sample population and still do not provide conclusive evidence on the overall survival benefit of cryosurgical ablation (e.g., Gurusamy, et al. 2009; Zhou, et al. 2009; NICE Dec 2010). Awad et al, (2010) conducted a systematic review to evaluate the potential benefits and harms of cryotherapy for the treatment of hepatic carcinoma. No randomized or quazi-randomized trials were identified. However, they found two cohort studies (two prospective and two retrospective). Only one of the studies could be included for the assessment of benefit. The authors concluded that at present, there is no evidence to recommend or refute cryotherapy for patients with hepatocellular carcinoma. Large, well-designed randomized clinical trials are feasible and necessary to define the role of cryotherapy in the treatment of HCC.

Breast:

While the use of cryoablation for the treatment of breast fibroadenoma has gained in popularity, there is insufficient published literature to demonstrate the efficacy of this procedure. Kaufman, et al (2002, 2004, 2005) reported on the outcomes of cryoablation in patients with breast fibroadenomas. Though outcome data has been reported at a mean of 2.6 years, there are several limitations to the studies, including that the studies came from a single investigator group, and did not include a direct comparison to surgical excision. Also, the 2005 case series of Kaufman et al, reported on only 29 patients in their efficacy data. Although this procedure may offer a less invasive method of treating breast fibroadenomas, the long-term outcome of this procedure is unknown. Studies of cryoablation of breast carcinomas have been limited to preliminary evaluation studies. There are no studies directly comparing the effectiveness of cryoablation to surgical incision in treatment of breast carcinomas. Although cryoablation is less invasive than surgical incision, a key disadvantage of cryoablation is the lack of a tissue sample to examine histologically to ensure adequate surgical margins and complete removal of tumor.

Pfleiderer SO., et al (2005) investigated the use of cryoablation in 30 women with confirmed breast cancer. No viable tumor cells were found in excised specimens at 6 week follow-up in 24 patients. In five patients with larger lesions

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(greater than 23 mm), remnant ductal carcinoma in situ was detectable histologically beyond the margin of the cryosite in the specimens after open surgery. This feasibility study demonstrates promising results in small lesions, but is limited in its sample size and extremely short follow-up. Zhao and Wu conducted a systematic review (2010) of minimally-invasive ablative techniques of early-stage breast cancer. The review noted that studies on cryoablation for breast cancer are primarily limited to pilot and feasibility studies in the research setting. Complete ablation of tumors was found to be reported within a wide range of 36-83%. Since there are many outstanding issues, including patient selection criteria and the ability to precisely determine the size of tumors and achieve 100% tumor cell death, the reviewers noted minimally-invasive thermal ablation techniques for breast cancer treatment, including cryoablation, should be limited until results from prospective, randomized clinical trials become available.

Pancreatic:

Li, et al. (2011) reported on a retrospective study of 142 patients with unresectable pancreatic cancer treated with palliative bypass with (n=68) or without cryoablation (n=74) from 1995 to 2002. Median dominant tumor sizes decreased from 4.3 cm to 2.4 cm in 36 of 55 patients (65%) three months after cryoablation. Survival rates were not significantly different between groups, with the cryoablation group surviving a median of 350 days versus 257 days in the group that did not receive cryoablation. Complications overall were not significantly different between the two groups. However, a higher percentage of delayed gastric emptying occurred in the cryoablation group compared to the group that did not receive cryoablation (36.8% vs. 16.2%, respectively).

Pulmonary:

An Agency for Healthcare Research and Quality comparative effectiveness review on local nonsurgical therapies for stage I and symptomatic obstructive non-small cell lung cancer (NSCLC) was published in 2013. Cryoablation was included as a potential therapy for airway obstruction due to an endoluminal NSCLC. Reviewers were unable to draw any conclusions on local nonsurgical therapies, including cryoablation, due to lack of quality evidence.

Cryosurgical ablation for the treatment of NSCLC has been studied in a limited number of small studies. The largest currently available was a case series study involving 47 subjects with NSCLC followed for a minimum of five years after treatment with cryoablation (Moore, 2015). The authors reported that the 5-year survival rate was 67.8% ± 15.3, the cancer-specific survival rate at five years was 56.6% ± 16.5, and the five-year progression-free survival rate was 87.9%. The combined local and regional recurrence rate was 36.2%. Major complications were reported in 6.4% of subjects, with two cases of hemoptysis and a prolonged placement of a chest tube requiring mechanical sclerosis in one subject. No deaths occurred in the first 30 days after treatment. These results are promising, but results from a large, controlled, comparative trial are needed for a better understanding of the safety and efficacy of cryoablation for NSCLC.

The use of cryosurgical ablation has also been studied to treat metastatic disease to the lungs. At this time, the published literature includes case reports, case series and reviews. However, there is a paucity of comparative effectiveness data to determine if cryosurgical ablation of pulmonary metastases is as beneficial as the available alternatives.

The largest published peer-reviewed study currently addressing the use of cryoablation for the treatment of metastatic lung tumors was published by de Baere and colleagues in 2015. This prospective case series study involved 40 subjects with 60 treated metastatic lung tumors from a variety of primary origins. The most common origin was colorectal cancer (40%). Follow-up to 12 months was reported, involving 35 subjects (90%). At 12 months, the overall local tumor control, including stable disease, partial, and complete response, was seen in 49 of 52 metastases (94.2%) and 32 of 35 subjects (91.4%). Local failure was observed in three of 52 metastases (5.8%) at six and 12 months with increasing size of the ablation zone. Tumor diameter was not found to be a significant factor in the rate of tumor progression (p=0.41). Additional new treatments were administered to 15 of the 40 subjects (38%) including systemic treatment (chemotherapy: n=7 and immunotherapy: n=1) and other focal therapies for new metastatic disease (n=10), including six cryoablation procedures. One-year disease-specific survival and OS rates were 100% and 97.5% respectively. Pneumothorax requiring chest tube placement occurred in nine of the 48 procedures (18.8%), and chest tubes were removed after one day (n=8) or two days (n=1). Common Terminology Criteria for Adverse Events (CTCAE) grade 3 adverse events within 30 days of the procedure occurred in three of 48 (6%) procedures including a delayed pneumothorax requiring pleurodesis, a thrombosis of a pre-existing hemodialysis access arterio-venous fistula requiring thrombectomy, and a non-cardiac chest pain which spontaneously resolved. No grade 4 or 5 procedure-related adverse events occurred. No procedural-related

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delayed adverse events were observed. The safety and efficacy of cryoablation for NSCLC has not yet been shown to be equivalent or better than other available treatment options.

CODES

- Eligibility for reimbursement is based upon the benefits set forth in the member's subscriber contract.
- CODES MAY NOT BE COVERED UNDER ALL CIRCUMSTANCES. PLEASE READ THE POLICY AND GUIDELINES STATEMENTS CAREFULLY.
- Codes may not be all inclusive as the AMA and CMS code updates may occur more frequently than policy updates.

CPT Codes

Code	Description
19105 (E/I)	Ablation, cryosurgical, of fibroadenoma, including ultrasound guidance, each fibroadenoma
20983 (E/I)	Ablation therapy for reduction or eradication of 1 or more bone tumors (e.g., metastasis) including adjacent soft tissue when involved by tumor extension, percutaneous, including imaging guidance when performed; cryoablation
32994 (E/I)	Ablation, pulmonary tumor(s), including pleura or chest wall when involved by tumor extension, percutaneous, cryoablation, unilateral, includes imaging guidance
47371 (E/I)	Laparoscopy, surgical ablation of one or more liver tumor(s); cryosurgical
47381 (E/I)	Ablation, open, of one or more liver tumor(s); cryosurgical
47383 (E/I)	Ablation, 1 or more liver tumor(s), percutaneous, cryoablation
50250	Ablation, open, one or more renal mass lesion(s), cryosurgical, including intraoperative ultrasound, if performed
50593	Ablation, renal tumor(s), unilateral, percutaneous, cryotherapy
76940	Ultrasound guidance for, and monitoring of, parenchymal tissue ablation
77013	Computed tomography guidance for, and monitoring of, parenchymal tissue ablation
77022	Magnetic resonance guidance for, and monitoring of, parenchymal tissue ablation

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HCPCS Codes

Code	Description
C2618	Probe/needle, cryoablation

ICD10 Codes

Code	Description
	Multiple diagnosis codes

REFERENCES

Abtin F, et al. Percutaneous cryoablation for the treatment of recurrent malignant pleural mesothelioma: safety, early-term efficacy, and predictors of local recurrence. *J Vasc Interv Radiol* 2017 Feb;28(2):213-221.

*Adam R, et al. A comparison of percutaneous cryosurgery and percutaneous radiofrequency for unresectable hepatic malignancies. *Arch Surg* 2002 Dec;137:1332-9.

Agency for Healthcare Research and Quality. Comparative effectiveness review number 112. Local nonsurgical therapies for stage 1 and symptomatic obstructive non-small-cell lung cancer. [<https://effectivehealthcare.ahrq.gov/topics/lung-cancer-nonsurgical-therapies/research>], accessed 2/22/19.

*American Society of Breast Surgeons (ASBS). Management of fibroadenomas of the breast. 2008 Apr [https://www.breastsurgeons.org/about/statements/PDF_Statements/Fibroadenoma.pdf] accessed 2/22/19.

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American Urological Association. Guideline for management of the clinical Stage I renal mass. [<https://www.auanet.org/education/guidelines/renal-mass.cfm>] accessed 2/22/19.

*Aron M, et al. Laparoscopic renal cryoablation: 8-year, single surgeon outcomes. J Urol 2010 Mar;183(3):889-95.

*Asimakopoulos G, et al. Cryosurgery for malignant endobronchial tumors: analysis of outcome. Chest 2005 Jun;127(6):2007-14.

*Atwell TD, et al. Percutaneous renal ablation: experience treating 115 tumors. J Urol 2008 Jun;179(6):2136-40.

*Atwell TD, et al. Complications following 573 percutaneous renal radiofrequency and cryoablation procedures. J Vasc Interv Radiol 2012 Jan;23(1):48-54.

Atwell TD, et al. Percutaneous cryoablation of stage T1b renal cell carcinoma: technique considerations, safety, and local tumor control. J Vasc Interv Radiol 2015 Jun;26(6):792-9.

*Autorino R, et al. Cryoablation for small renal tumors: current status and future perspectives. Urol Oncol 2012 Jul-Aug;30(4 Suppl):S20-7.

*Awad T, et al. Cryotherapy for hepatocellular carcinoma. Cochrane Database Syst Rev 2009 Oct 7;(4):CD007611.

Beji H, et al. Percutaneous cryoablation of breast tumours in patients with stable metastatic breast cancer: safety, feasibility and efficacy. Br J Radiol 2018; 91: 20170500.

*Berger A, et al. Cryoablation for renal tumors: current status. Curr Opin Urol 2009 Mar;19(2):138-42.

*Bandi G, et al. Cryoablation of small renal masses: assessment of the outcome at one institution. BJU Int 2007 Oct;100(4):798-801.

*Bang HJ, et al. Percutaneous cryoablation of metastatic renal carcinoma for local tumor control: feasibility, outcomes, and estimated cost-effectiveness for palliation. J Vasc Interv Radiol 2012 Jun;23(6):770-7.

*Bang HJ, et al. Percutaneous cryoablation of metastatic lesions from non-small-cell-lung carcinoma: initial survival, local control, and cost observations. J Vasc Interv Radiol 2012 Jun;23(6):761-9.

*Bertoletti L, et al. Bronchoscopic cryotherapy treatment of isolated endoluminal typical carcinoid tumor. Chest 2006 Nov;130(5):1405-11.

*Beemster PW, et al. Laparoscopic renal cryoablation using ultrathin 17-gauge cryoprobes: mid-term oncological and functional results. BJU Int 2011 Aug;108(4):577-82.

BlueCross BlueShield Association. Medical Policy Reference Manual Policy #7.01.75. Cryosurgical ablation of primary or metastatic liver tumors. 2018 Jul 12.

BlueCross BlueShield Association. Medical Policy Reference Manual Policy #7.01.92. Cryosurgical ablation of miscellaneous solid tumors other than liver or prostate tumors. 2018 Jul 12.

*BlueCross BlueShield Association Technology Evaluation Center (TEC). Cryosurgical ablation of unresectable hepatic tumors. 2000 Nov;15(14).

*Caleffi M, et al. Cryoablation of benign breast tumors: evolution of technique and technology. Breast 2004 Oct;13(5):397-407.

Caputo PA, et al. Laparoscopic cryoablation for renal cell carcinoma: 100-month oncologic outcomes. J Urol 2015 Oct;194(4):892-6.

Casalino DD, et al. ACR appropriateness criteria post-treatment follow-up of renal cell carcinoma. J Am Coll Radiol 2014 May;11(5):443-449.

*Cestari A, et al. Laparoscopic cryoablation of solid renal masses: intermediate term followup. J Urol 2004 Oct;172 (4 Pt1):1267-70.

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*Cha C, et al. Rationale for the combination of cryoablation with surgical resection of hepatic tumors. J Gastrointest Surg 2001 Mar-Apr;5(2):206-13.

Chou HP, et al. percutaneous cryoablation for inoperable malignant lung tumors: midterm results. Cryobiology 2015 Feb;70(1):60-5.

*Christians KK, et al. Hepatocellular carcinoma: multimodality management. Surg 2001 Oct;130(4):554-9.

*Chung MH, et al. Hepatic cytoreduction followed by a novel long-acting somatostatin analog: a paradigm for intractable neuroendocrine tumors metastatic to the liver. Surg 2001 Dec;130(6):954-62.

*Ciavattini A, et al. Pregnancy outcomes after laparoscopic cryomyolysis of uterine myomas: report of nine cases. J Min Invasive Gynecol 2006 Mar-Apr;13(2):141-4.

Colak E, et al. CT-guided percutaneous cryoablation of central lung tumors. Diagn Interv Radiol 2014 Apr 30 [Epub ahead of print].

*Davol PE, et al. Long-term results of cryoablation for renal cancer and complex renal masses. Urology 2006 Jul;68(1 Suppl):2-6.

De Baere T, et al. Evaluating cryoablation of metastatic lung tumors in patients—safety and efficacy: the ECLIPSE trial—interim analysis at 1 year. J Thorac Oncol 2015 Oct;10(10):1468-74.

De Baere T, et al. Lung ablation: best practice/results/response assessment/role alongside other ablative therapies. Clin Radiol 2017 Aug;72(8):657-664.

*Deygas N, et al. Cryotherapy in early superficial bronchogenic carcinoma. Chest 2001 Jul;120:26-31.

*Dohi M, et al. MR-guided transvaginal cryotherapy of uterine fibroids with a horizontal open MRI system: initial experience. Radiat Med 2004 Nov-Dec;22(6):391-7.

Dunne RM, et al. Percutaneous treatment of hepatocellular carcinoma in patients with cirrhosis: a comparison of the safety of cryoablation and radiofrequency ablation. Eur J Radiol 2014 Apr;83(4):632-8.

Ei S, et al. Cryoablation provides superior local control of primary hepatocellular carcinomas of > 2 cm compared with radiofrequency ablation and microwave coagulation therapy: an underestimated tool in the toolbox. Ann Surg Oncology 2015 Apr;22(4):1294-300.

*El Dib R, et al. Cryoablation vs radiofrequency ablation for the treatment of renal cell carcinoma: a meta-analysis of case series studies. BJU Int 2012 Aug;110(4):510-6.

Emara AM, et al. Robot-assisted partial nephrectomy vs laparoscopic cryoablation for the small renal mass: redefining the minimally invasive “gold standard”. BJU Int 2014 Jan;113(1):92-9.

*Faddegon S, et al. Does renal mass ablation provide adequate long-term oncologic control? Urol Clin North Am 2012 May;39(2):181-90.

Fairchild AH, et al. Percutaneous cryoablation of hepatic tumors adjacent to the gallbladder: Assessment of safety and effectiveness. J Vasc Interv Radiol 2014 Jun 3 [Epub ahead of print].

*Finlay IG, et al. Resection with cryotherapy of colorectal hepatic metastases has the same survival as hepatic resection alone. Eur J Surg Onc 2000;26:199-202.

*Finley DS, et al. Percutaneous and laparoscopic cryoablation of small renal masses. J Urol 2008 Aug;180(2):492-8.

Fleming MM, et al. Update on image-guided percutaneous ablation of breast cancer. AJR Am J Roentgenol 2017 Feb;208(2):267-274.

Frenk NE, et al. Local control and survival after image-guided percutaneous ablation of adrenal metastases. J Vasc Interv Radiol 2018 Feb;29(2):276-284.

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Georgiades CS, et al. Efficacy and safety of percutaneous cryoablation for stage 1A/B renal cell carcinoma: results of a prospective, single-arm, 5-year study. Cardiovasc Intervent Radiol 2014 Dec;37(6):1494-9.

*Goel RK, et al. Probe ablative treatment for small renal masses: cryoablation vs. radio frequency ablation. Curr Opin Urol 2008 Sep;18(5):467-73.

*Goering JD, et al. Cryoablation and liver resection for noncolorectal liver metastases. Am J Surg 2002 Apr;183(4):384-9.

Golatta M, et al. Ultrasound-guided cryoablation of breast fibroadenoma: a pilot trial. Arch Gynecol Obstet 2015 Jun;291(6):1355-60.

*Goyal J, et al. Single-center comparative oncologic outcomes of surgical and percutaneous cryoablation for treatment of renal tumors. J Endourol 2012 Nov; 26(11):1413-9.

*Graversen JA, et al. Laparoscopic ablation of renal neoplasms. J Endourol 2011 Feb;25(2):187-94.

Guillotreau J, et al. Robotic partial nephrectomy versus laparoscopic cryoablation for the small renal mass. Eur Urol 2012 May;61(5):899-904.

*Gurusamy KS, et al. Liver resection versus other treatments for neuroendocrine tumours in patients with resectable liver metastases. Cochrane Database Syst Rev. 2009 Apr 15;(2):CD007060.

*Gurusamy KS, et al. Surgical resection versus non-surgical treatment for hepatic node positive patients with colorectal liver metastases. Cochrane Database Syst Rev 2010 Jan 20;(1):CD006797.

*Haramis G, et al. Retrospective comparison of laparoscopic partial nephrectomy versus laparoscopic renal cryoablation for small (<3.5 cm) cortical renal masses. J Laparoendosc Adv Surg Tech A 2012 Mar;22(2):152-7.

*Hegarty NJ, et al. Probe-ablative nephron-sparing surgery: cryoablation versus radiofrequency ablation. Urol 2006 Jul;68(1 Suppl):7-13.

*Heuer R, et al. A critical analysis of the actual role of minimally invasive surgery and active surveillance for kidney cancer. Eur Urol 2010 Feb;57(2):223-32.

*Hruby G, et al. Comparison of laparoscopic partial nephrectomy and laparoscopic cryoablation for renal hilar tumors. Urol 2006 Jan;(1):50-4.

*Huang A, et al. Phase I study of percutaneous cryotherapy for colorectal metastasis. Br J Surg 2002 Mar;89(3):303-10.

Huang C, et al. Analysis of therapeutic effectiveness and prognostic factor on argon-helium cryoablation combined with transcatheter arterial chemoembolization for the treatment of advanced hepatocellular carcinoma. J Cancer Res Ther 2016 Dec;12(Supplement):C148-152.

*Hui GC, et al. Comparison of percutaneous and surgical approaches to renal tumor ablation: meta-analysis of effectiveness and complication rates. J Vasc Interv Radiol 2008 Sep;19(9):1311-20.

*Jansen MC, et al. Outcome of regional and local ablative therapies for hepatocellular carcinoma: a collective review. Eur J Surg Oncol 2005 May;31(4):331-47.

*Johnson, DB et al. Defining the complications of cryoablation and radiofrequency ablation of small renal tumors: a multi-institutional review. J Urol 2004 Sep;172(3):874-7.

Johnson S, et al. Laparoscopic cryoablation of clinical stage T1 renal masses: long-term oncologic outcomes at Medical College of Wisconsin. Urology 2014 Sep;84(3):613-6.

*Joosten J, et al. Cryosurgery and radiofrequency ablation for unresectable colorectal liver metastases. Eur J Surg Oncol 2005 Dec;31(10):1152-9.

*Jungraithmayr W, et al. Cryoablation of malignant liver tumors: results of a single center study. Hepatobil Pancreat Dis Int 2005 Nov;4(4):554-60.

Kapoor A, et al. Update on cryoablation for treatment of small renal masses: oncologic control, renal function preservation, and rate of complications. Curr Urol Rep 2014 Apr;15(4):396.

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*Kaufman CS, et al. Office-based ultrasound-guided cryoablation of breast fibroadenomas. Am J Surg 2002 Nov;184(5):394-400.

*Kaufman CS, et al. Office-based cryoablation of breast fibroadenomas: 12-month follow-up. J Am Coll Surg 2004 Jun;198(6):914-23.

*Kaufman CS, et al. Cryoablation treatment of benign breast lesions with 12-month follow-up. Am J Surg 2004 Oct;188(4):340-8.

*Kaufman CS, et al. Office-based cryoablation of breast fibroadenomas with long-term follow-up. Breast J 2005 Sep-Oct;11(5):344-50.

*Kawamura M, et al. Percutaneous cryoablation of small pulmonary malignant tumors under computed tomographic guidance with local anesthesia for nonsurgical candidates. J Thorac Cardiovasc Surg 2006 May;131(5):1007-13.

Keane MG, et al. Systematic review of novel ablative methods in locally advanced pancreatic cancer. World J Gastroenterol 2014 Mar 7;20(9):2267-78.

Kim EH, et al. Comparison of laparoscopic and percutaneous cryoablation for treatment of renal masses. Urology 2014 May;83(5):1081-7.

*Kimura M, et al. Minimally invasive surgery using ablative modalities for the localized renal mass. Int J Urol 2010 Mar;17(3):215-27.

*Klatte T, et al. Laparoscopic cryoablation versus partial nephrectomy for the treatment of small renal masses: systematic review and cumulative analysis of observational studies. Eur Urol 2011 Sep;60(3):435-43.

Klatte T, et al. Systematic review and meta-analysis of perioperative and oncologic outcomes of laparoscopic cryoablation versus laparoscopic partial nephrectomy for the treatment of small renal tumors. J Urol 2014 May;191(5):1209-17.

Klatte T, et al. The contemporary role of ablative treatment approaches in the management of renal cell carcinoma (RCC): focus on radiofrequency ablation (RFA), high-intensity focused ultrasound (HIFU), and cryoablation. World J Urol 2014 Jun;32(3):597-605.

*Kovach SJ, et al. Cryoablation of unresectable pancreatic cancer. Surg 2002 Apr;131(4):463-4.

*Kunkle DA, et al. Cryoablation or radiofrequency ablation of small renal masses: a meta-analysis. Cancer 2008 Sep 24;113(10):2671-80.

Larcher A, et al. Long-term oncologic outcomes of laparoscopic renal cryoablation as primary treatment for small renal masses. Urol Oncol 2015 Jan;33(1):22.e1-9.

*Lee SH, et al. Endoscopic cryotherapy of lung and bronchial tumors: a systematic review. Korean J Intern Med 2011 Jun;26(2):137-44.

*Lehman DS, et al. Laparoscopic renal cryoablation: efficacy and complications for larger renal masses. J Endourol 2008 Jun;22(6):1123-7.

*Li J, et al. Tumour cryoablation combined with palliative bypass surgery in the treatment of unresectable pancreatic cancer: a retrospective study of 142 patients. Postgrad Med J 2011 Feb;87(1024):89-95.

*Littrup PJ, et al. Cryotherapy for breast adenomas. Radiol 2005 Jan;234(1):63-72.

Littrup PJ, et al. Percutaneous cryoablation of hepatic tumors: long-term experience of a large U.S. series. Abdom Radiol 2016 Mar 10 [Epub ahead of print].

*Manenti G, et al. Percutaneous local ablation of unifocal subclinical breast cancer: clinical experience and preliminary results of cryotherapy. Eur Radiol 2011 Nov;21(11):2344-53.

*Matin SF, et al. Nephron-sparing probe ablative therapy: long-term outcomes. Curr Opin Urol 2008 Mar;18(2):150-6.

*McWilliams JP, et al. Percutaneous ablation of hepatocellular carcinoma: current status. J Vasc Interv Radiol 2010 Aug;21(8 Suppl):S204-13.

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Policy Number: 7.01.03

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Miller AJ, et al. Percutaneous clinical T1a renal mass ablation in the octogenarian and nonagenarian: oncologic outcomes and morbidity. J Endourol 2014 Nov 11 [Epub ahead of print].

*Mogami T, et al. Percutaneous MR-guided cryoablation for malignancies, with a focus on renal cell carcinoma. Int J Clin Oncol 2007 Apr;12(2):79-82.

Moore W, et al. Five-year survival after cryoablation of stage I non-small cell lung cancer in medically inoperable patients. J Vasc Interv Radiol 2015 March;26(3):312-319.

*Morin J, et al. Magnetic resonance-guided percutaneous cryosurgery of breast carcinoma: technique and early clinical results. Can J Surg 2004 Oct;47(5):347-51.

*Mues AC, et al. Results of kidney tumor cryoablation: renal function preservation and oncologic efficacy. World J Urol 2010 Oct;28(5):565-70.

*Mues AC, et al. Comparisons of percutaneous and laparoscopic renal cryoablation for small (<3 cm) renal masses. J Endourol 2010 Jul;24(7):1097-100.

*Nabi G, et al. Surgical management of localised renal cell carcinoma. Cochrane Database Syst Rev 2016 Mar 5.;(3):CD006579.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.2.2018. Kidney cancer. [https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf] accessed 2/22/19.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.1.2018. Pancreatic adenocarcinoma tumors. [http://www.nccn.org/professionals/physician_gls/pdf/pancreatic.pdf] accessed 2/22/19.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.2.2018. Neuroendocrine tumors. [http://www.nccn.org/professionals/physician_gls/pdf/pancreatic.pdf] accessed 2/22/19.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.3.2018. Small cell lung cancer. [http://www.nccn.org/professionals/physician_gls/pdf/sclc.pdf] accessed 2/22/19.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.2.20178. Colon cancer. [http://www.nccn.org/professionals/physician_gls/pdf/colon.pdf] accessed 2/22/19.

National Comprehensive Cancer Network (NCCN). Clinical practice guidelines in oncology v.1.2018. Hepatobiliary cancer. [http://www.nccn.org/professionals/physician_gls/pdf/hepatobiliary.pdf] accessed 2/22/19.

*National Institute for Health and Clinical Excellence (NICE). Percutaneous cryotherapy for renal cancer. 2011 Jul [<https://www.nice.org.uk/guidance/ipg402>] accessed 2/22/19.

*National Institute for Health and Clinical Excellence (NICE). Laparoscopic cryotherapy for renal cancer. 2011 Aug [<https://www.nice.org.uk/guidance/ipg405>] accessed 2/22/19.

*National Institute for Health and Clinical Excellence (NICE). Cryotherapy for the treatment of liver metastases. 2010 Dec [<https://www.nice.org.uk/guidance/ipg369>] accessed 2/22/19.

*Neeleman N, et al. Cryosurgery as treatment modality for colorectal liver metastases. Hepatogastroenterol 2001 Mar-Apr;48(38):325-9.

*Niu R, et al. Recurrence and survival outcomes after hepatic resection with or without cryotherapy for liver metastases from colorectal carcinoma. Ann Surg Oncol 2007 Jul;14(7):2078-87.

*Ng KM, et al. Two decades of experience with hepatic cryotherapy for advanced colorectal metastases. Ann Surg Oncol 2012 Apr;19(4):1276-83.

*Nurko J, et al. Interim results from the FibroAdenoma Cryoablation Treatment Registry. Am J Surg 2005 Oct;190(4):647-51.

*Paganini AM, et al. Cryosurgical ablation of hepatic colorectal metastases. Surg Oncol 2007 Dec;16(Suppl 1):S137-40.

Medical Policy: CRYOSURGICAL TUMOR ABLATION

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- *Pathak S, et al. Ablative therapies for colorectal liver metastases: a systematic review. Colorectal Dis 2011 Sep;13(9):e252-65.
- *Permpongkosol S, et al. Percutaneous renal cryoablation. Urol 2006 Jul;68(1 Suppl):19-25.
- Pessoa RR, et al. Laparoscopic versus percutaneous cryoablation of small renal mass: systematic review and cumulative analysis of comparative studies. Clin Genitourin Cancer 2017 Oct;15(5):513-519.
- *Pfleiderer SO, et al. Ultrasound-guided, percutaneous cryotherapy of small (< or=15 mm) breast cancer. Invest Radiol 2005 Jul;40(7):472-7.
- *Pirasteh A, et al. Cryoablation vs. radiofrequency ablation for small renal masses. Acad Radiol 2011 Jan;18(1):97-100.
- Poplack SP, et al. A pilot study of ultrasound-guided cryoablation of invasive ductal carcinomas up to 15 mm with MRI follow-up and subsequent surgical resection. AJR Am J Roentgenol 2015 May;204(5):1100-8.
- *Pusztaszeri M, et al. Histopathological study of breast cancer and normal breast tissue after magnetic resonance-guided cryotherapy ablation. Cryobiol 2007 Aug;55(1):44-51.
- *Rehrig S, et al. 5 year qualitative results of isolated cryosurgical ablation for hepatic malignancy at Walter Reed Army Medical Center. Current Surg 2001 Jan;58(1):81-5.
- Rong G, et al. Cryotherapy for cirrhosis-based hepatocellular carcinoma: a single center experience from 1595 treated cases. Front Med 2015 Mar;9(1):63-71.
- Rong G, et al. Long-term outcomes of percutaneous cryoablation for patients with hepatocellular carcinoma within Milan criteria. PLoS One 2015 Apr 7;10(4):e0123065.
- *Roubidoux MA, et al. Small (<2.0 cm) breast cancers: mammographic and US findings at US-guided cryoablation-initial experience. Radiol 2004 Dec;233(3):857-67.
- *Ruers TJ, et al. Long-term results of treating hepatic colorectal metastases with cryosurgery. Br J Surg 2001 Jun;88(6):844-9.
- *Ruers TJ, et al. Comparison between local ablative therapy and chemotherapy for non-resectable colorectal liver metastases: a prospective study. Ann Surg Oncol 2007 Mar;14(3):1161-9.
- *Rukstalis DB, et al. Clinical experience with open renal cryo-ablation. Urol 2001 Jan;57(1):34-9.
- *Sabel MS, et al. Cryoablation of early-stage breast cancer: work in progress report of a multi-institutional trial. Ann Surg Oncol 2004 May;11(5):542-9.
- *Sahoo S, et al. Pathologic evaluation of cryoprobe-assisted lumpectomy for breast cancer. Am J Clin Pathol 2007 Aug;128(2):239-44.
- *Saxena A, et al. Optimizing the surgical effort in patients with advance neuroendocrine neoplasm hepatic metastases: a critical analysis of 40 patients treated by hepatic resection and cryoablation. Am J Clin Oncol 2012 Oct;35(5):439-45.
- *Schmit GD, et al. Percutaneous cryoablation of anterior renal masses: technique, efficacy, and safety. AJR AM J Roentgenol 2010 Dec;195(6):1418-22.
- *Seifert JK, et al. Liver resection or cryotherapy for colorectal metastases: a prospective case control study. Int J Colorectal Dis 2005 Nov;20(6):507-20.
- *Schmit GD, et al. Percutaneous cryoablation of renal masses \geq 3 cm: efficacy and safety. J Endourol 2010 Apr 9 [Epub ahead of print].
- *Schwartz BF, et al. Cryoablation of small peripheral renal masses: a retrospective analysis. Urol 2006 Jul;68(1 Suppl):14-8.
- *Sheen AJ, et al. Cryotherapeutic ablation of liver tumors. Br J Surg 2002 Nov;89(11):1396-401.

Medical Policy: CRYOSURGICAL TUMOR ABLATION

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- *Sheen AJ, et al. The end of cryotherapy for the treatment of unresectable hepatic tumors? Ann Surg Oncol 2005 Mar;12(3):202-4.
- *Shingleton WB, et al. Percutaneous renal tumor cryoablation with magnetic resonance imaging guidance. J Urol 2001 Mar;165(3):773-6.
- *Silverman SG, et al. Renal tumors: MR imaging-guided percutaneous cyrotherapy- initial experience in 23 patients. Radiol 2005 Aug;236(2):716-24.
- Simmons RM, et al. A phase II trial exploring the success the cryoablation therapy in the treatment of invasive breast carcinoma: results from ACOSOG (Alliance) Z1072. Ann Surg Oncol 2016 Aug;23(8):2438-2445.
- *Stein RJ, et al. Renal cryotherapy: a detailed review including a 5-year follow-up. BJU Int 2007 May;99(5 Pt B):1265-70.
- *Strom KH, et al. Second prize: recurrence rates after percutaneous and laparoscopic cryoablation of small renal masses: does the approach make a difference? J Endourol 2011 Mar;25(3):371-5.
- Tang K, et al. Laparoscopic renal cryoablation versus laparoscopic partial nephrectomy for the treatment of small renal masses: A systematic review and meta-analysis of comparative studies. J Laparoendo Adv Surg Tech A 2014 Jun;24(6):403-10.
- *Tao Z, et al. Safety and effectiveness of cryosurgery on advanced pancreatic cancer: a systematic review. Pancreas 2012 Jul;41(5):809-11.
- Thompson RH, et al. Comparison of partial nephrectomy and percutaneous ablation for cT1 renal masses. Eur Urol 2015 Feb;67(2):252-9.
- *Tuncali K, et al. MRI-guided percutaneous cryotherapy for soft tissue and bone metastases: initial experience. AJR 2007 Jul;189(1):232-9.
- *van Esser S, et al. Minimally invasive ablative therapies for invasive breast carcinomas: an overview of current literature. World J Surg 2007 Dec;31(12):2284-92.
- *Vricella GJ, et al. Percutaneous cryoablation of renal masses: impact of patient selection and treatment parameters on outcomes. Urology 2011 Mar;77(3):649-54.
- Wagstaff P, et al. Thermal ablation in renal cell carcinoma management: a comprehensive review. Curr Opin Urol 2014 Sep;24(5):474-82.
- Wang C, et al. A multicenter randomized controlled trial of percutaneous cyroablation versus radiofrequency ablation in hepatocellular carcinoma. Hepatology 2014 Oct 6 [Epub ahead of print].
- *Weld KJ, et al. Laparoscopic cryoablation for small renal masses: three year follow-up. Urol 2007 Mar;69(3):448-51.
- *Whitson JM, et al. Population-based comparative effectiveness of nephron-sparing surgery vs ablation for small renal masses. BJU Int 2012 Nov;110(10):1438-43.
- *Whitworth PW, et al. Cryoablation and cryolocalization in the management of breast disease. J Surg Oncol 2005 Apr 1;90(1):1-9.
- Wu S, et al. Cryoablation versus radiofrequency ablation for hepatic malignancies: a systematic review and literature-based analysis. Medicine 2015 Dec;94(49):e2252.
- *Xu KC, et al. Percutaneous cryosurgery for the treatment of hepatic colorectal metastases. World J Gastroenterol 2008 Mar 7;14(9):1430-6.
- *Yamauchi Y, et al. Percutaneous cryoablation for the treatment of medically inoperable stage 1 non-small cell lung cancer. PLoS One 2012;7(3):e33223.
- *Yan TD, et al. Recurrence after complete cryoablation of colorectal liver metastases: analysis of prognostic features. Am Surg 2006 May;72(5):382-90.

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Yan X, et al. Image-guided percutaneous renal cryoablation for stage 1 renal cell carcinoma with high surgical risk. World J Surg Oncol 2015 Jun 10;13:200.

*Yang Y, et al. Outcomes of ultrasound-guided percutaneous argon-helium cryoablation of hepatocellular carcinoma. J Hepatobiliary Pancreat Sci 2012 Nov;19(6):674-84.

Zargar H, et al. Cryoablation for small renal masses: selection criteria, complications, and functional and oncologic results. Eur Urol 2016 Jan;69(1):116-128.

*Zhang ZM, et al. Therapeutic options for intermediate-advanced hepatocellular carcinoma. World J Gastroenterol 2011 Apr 7;17(13):1685-9.

*Zhang X, et al. CT-guided conformal cryoablation for peripheral NSCLC: initial experience. Eur J Radiol 2012 Nov;8(11):3354-62.

Zhang W, et al. Percutaneous cryoablation of liver metastases from breast cancer: initial experience in 17 patients. Clin Radiol 2014 Mar;69(3):231-8.

Zhang YS, et al. Percutaneous imaging-guided cryoablation for lung cancer. J Thorac Dis 2016;8(Suppl 9):S705-S709.

*Zhao Z, et al. Minimally-invasive thermal ablation of early-stage breast cancer: a systematic review. Eur J Surg Oncol 2010 Dec;36(12):1149-55.

Zondervan PJ, et al. Cryoablation of small kidney tumors. Int J Surg 2016 Dec;36(Pt C):533-540.

*Zupi E, et al. Directed laparoscopic cryomyolysis: a possible alternative to myomectomy and/or hysterectomy for symptomatic leiomyomas. Am J Obstet Gynecol 2004 Mar;190(3):639-43.

*Key Article

KEY WORDS

Cryoablation, Cryosurgery, Liver neoplasms.

CMS COVERAGE FOR MEDICARE PRODUCT MEMBERS

Based on our review, there is no specific regional or national coverage determination addressing cryosurgical tumor ablation other than the national coverage determination for cryosurgery of the prostate which is highlighted in a separate medical policy.