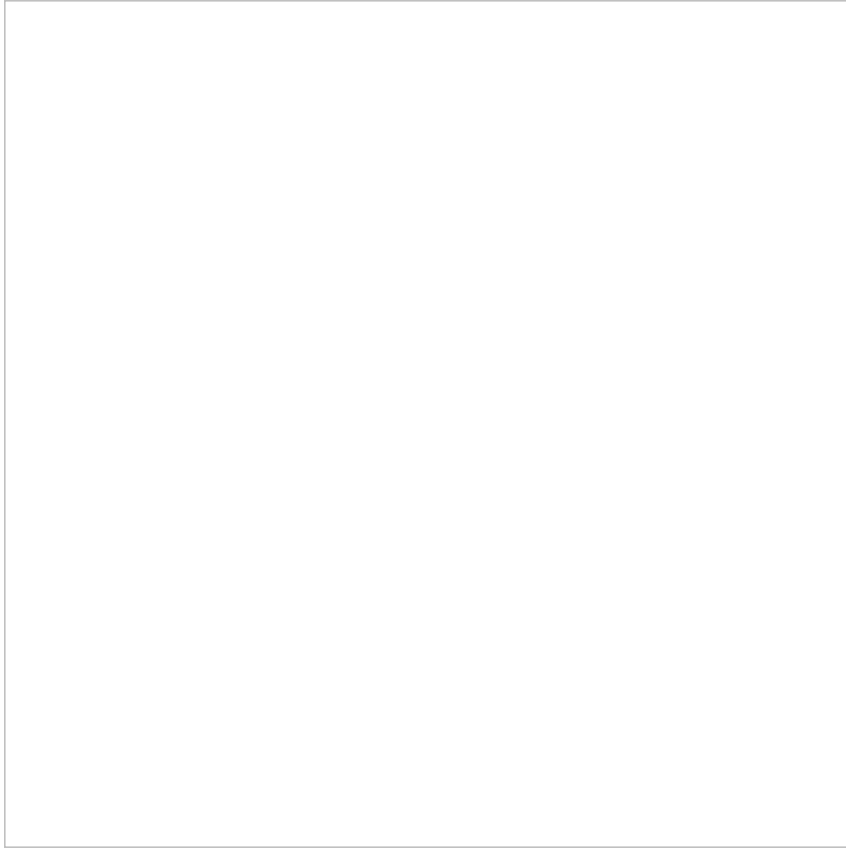


Cryotherapy (Cryoablation)

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Cryotherapy or cryoablation (Cryo is from the Greek for frost or extreme cold. Ablation refers to removal or elimination.) is the use of extreme cold to kill tumor cells. A probe containing an extremely cold fluid is placed inside/on the area to be treated and the tumor (or abnormal growth) is frozen. Cryotherapy can be performed during a open (fully invasive) surgery or the probes can be inserted through the skin in a minimally invasive procedure. The liquid does not enter the tumor, but the rod is cold enough to freeze the tumor.



Cryotherapy freezes and kills cancer cells and any nearby normal cells.



The cold liquid is not actually placed into the tumor. It is inside a rod. The rod may have to be inserted and removed several times.

Cryotherapy is used to treat several different pre-cancerous and cancerous conditions, including: kidney cancer¹ ² lung cancer¹ , esophageal cancer³ , liver cancer⁴ , cervical intraepithelial neoplasia (CIN)⁵ , prostate cancer⁶ , retinoblastoma⁷ and skin neoplasms⁸ .

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- ⁴ Awad T, Thorlund K, Gluud C. Cryotherapy for hepatocellular carcinoma. *Cochrane Database Syst Rev*. 2009 Oct 7; (4):CD007611. [[PUBMED](#)]
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- ⁷ Lin P, O'Brien JM. Frontiers in the management of retinoblastoma. *Am J Ophthalmol*. 2009 Aug;148(2):192-8. Epub 2009 May 24. [[PUBMED](#)]
- ⁸ Terushkin V, Braga JC, Dusza SW, Scope A, Busam K, Marghoob AA, Gill M, Halpern AC. Agreement on the Clinical Diagnosis and Management of Cutaneous Squamous Neoplasms. *Dermatol Surg*. 2010 Aug 4. [Epub ahead of print [[PUBMED](#)]]