



## Salvage cryotherapy

a curative treatment for prostate cancer when radiation has failed

**According to a prostate cancer database<sup>1</sup> (CaPSURE™), 63% of prostate cancer patients who undergo radiation therapy as the first-line treatment for their prostate cancer will experience recurrence (the cancer will come back). This is commonly referred to as radiation failure.**

The first indication of recurrence will be a rise in the PSA reading carried out during a routine check-up appointment. **If this happens, acting quickly is important<sup>2</sup> – don't wait until it's too late!**

The following are key factors in the success of salvage treatment:<sup>2</sup>

- PSA less than 10ng/ml
- Gleason score of 8 or less
- Clinical stage of tumor T1 or T2 (before salvage therapy)

Most patients who fail radiation are put on hormonal therapy. It is important to remember that **hormonal therapy cannot cure prostate cancer – it can only delay the progress of the cancer.** Also, hormonal therapy has many unpleasant side effects. Recently, the US Food and Drug Administration has warned about a link between heart disease and diabetes in prostate cancer patients treated with hormones.<sup>3</sup>



1. Agarwal et al. Cancer (2008)  
2. Kimura et al. BJU Int (2009)  
3. FDA Safety Announcement 20 Oct 2010  
[www.fda.gov/Drugs/DrugSafety/ucm229986.htm](http://www.fda.gov/Drugs/DrugSafety/ucm229986.htm)

For more information, please visit  
[www.prostate-cancer-institute.com](http://www.prostate-cancer-institute.com)

**Unlike hormonal therapy, cryotherapy is a curative treatment for recurrent prostate cancer.** Cryotherapy performed on patients who have recurrent prostate cancer, having failed radiation therapy, is referred to as **salvage cryotherapy**.

Other treatment options include salvage prostatectomy (surgical removal of the prostate) or additional radiation therapy. You should discuss the different options with your family and with your doctor to decide the treatment that is the most suitable for you and your lifestyle.

### What are the advantages of salvage prostate cryotherapy?

- **Curative** therapy
- **Single-treatment** session
- Compared to surgery and radiation, **low rates of incontinence**<sup>1</sup> (leaking urine)
- Minimally invasive (**no incisions**)
- **No radiation or hormones**
- **None of the side effects associated with hormones**
- **Short hospital stay** and **quick recovery**
- **Can be repeated**, if necessary

### What are the disadvantages of hormone therapy?

- Delays the progression of the cancer but **does not cure it**
- **Potential health risks** include:
  - Bone fracture due to reduction in bone density<sup>2</sup>
  - Reduced cardiovascular function (heart disease)<sup>3</sup>
  - Reduced cognitive function (mental agility)<sup>4</sup>
  - Poor insulin/glucose regulation (diabetes)<sup>3</sup>
- **Unpleasant side effects** include:
  - Hot flashes/flushes
  - Reduced sex drive
  - Breast enlargement

“*When the cancer came back after radiation, I had cryotherapy. Looking back, if I had been offered cryotherapy instead of radiotherapy, that would have been my first choice.*”

1. Pisters et al. J Urology (2008)

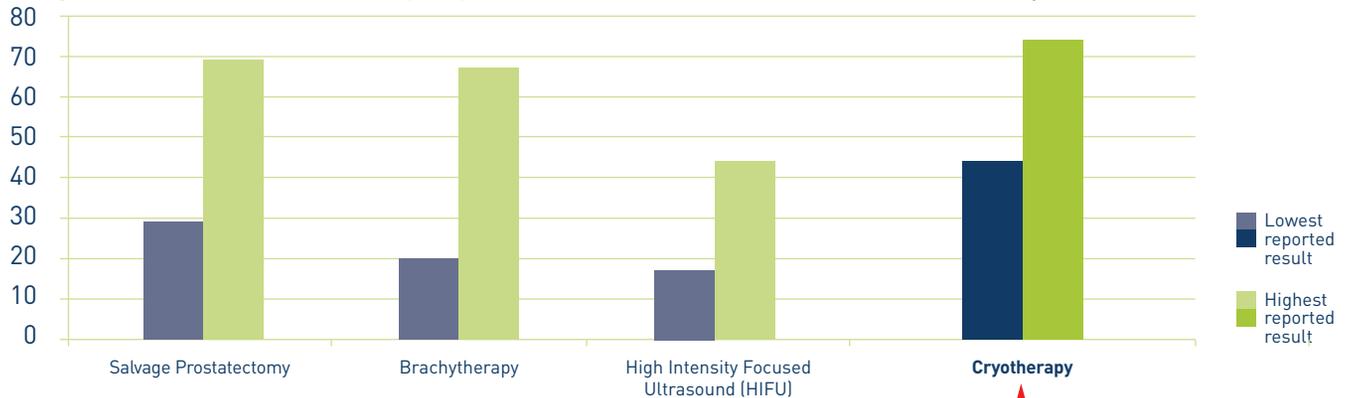
2. Daniell et al. J Urology (2000)

3. FDA Safety Announcement 20 Oct 2010 ([www.fda.gov/Drugs/DrugSafety/ucm229986.htm](http://www.fda.gov/Drugs/DrugSafety/ucm229986.htm))

4. Nelson et al. Cancer (2008)

## 5-Year Biochemical Disease-Free Survival (%) After Prostate Cancer Salvage Therapy

A high number means more people were disease-free at time of follow up

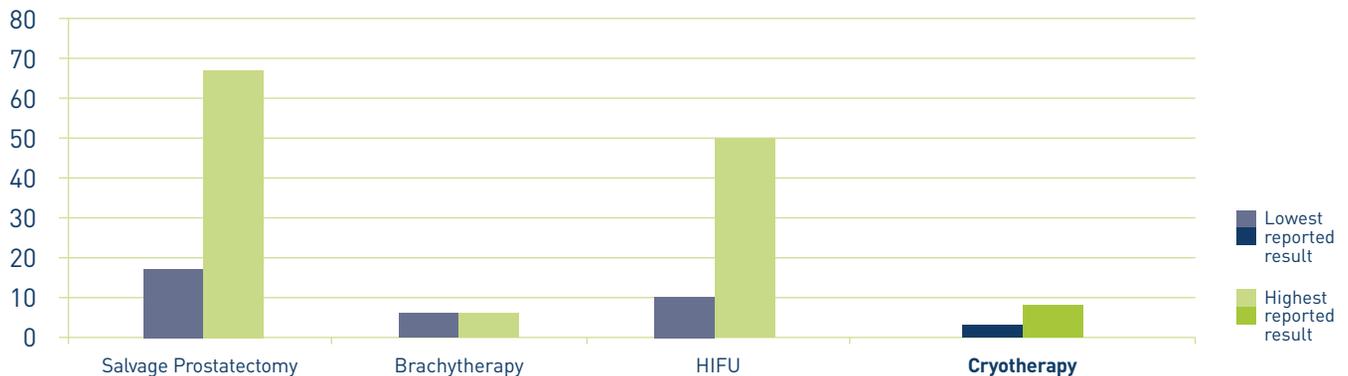


Source: Published results for prostate cancer salvage patients:

Salvage Prostatectomy:	Paparel et al. (2010); Boukaram et al. (2010)	HIFU:	Chalasanani et al. (2009)
Brachytherapy:	Boukaram et al. (2010)	Cryotherapy:	Boukaram et al. (2010)

## Risk of Incontinence (%) After Prostate Cancer Salvage Therapy

A low risk means less likelihood of incontinence



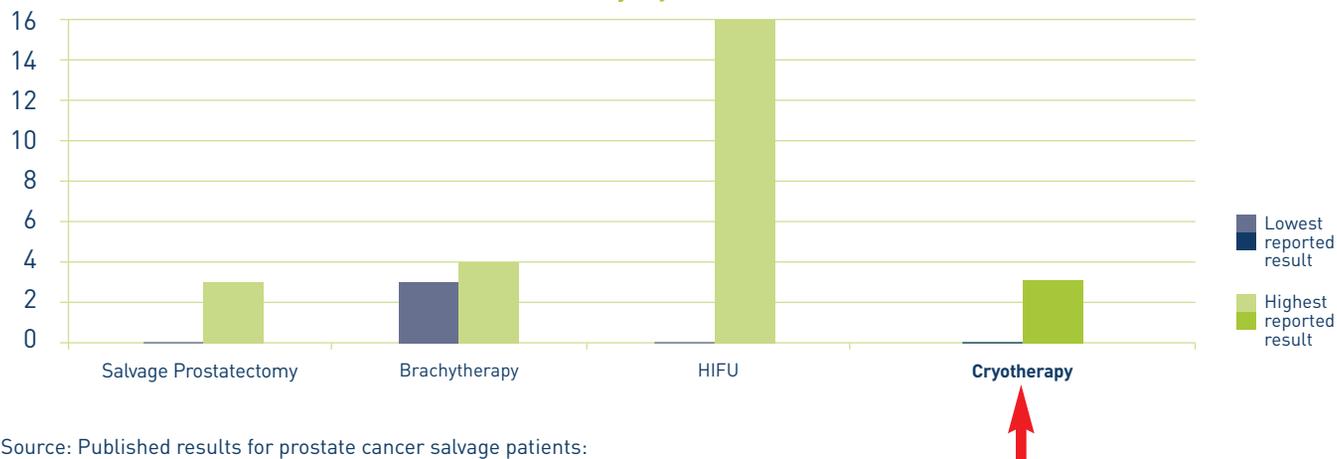
Source: Published results for prostate cancer salvage patients:

Salvage Prostatectomy:	Boukaram et al. (2010)	HIFU:	Boukaram et al. (2010)
Brachytherapy:	Boukaram et al. (2010)	Cryotherapy:	Langenhuijsen et al. (2009)

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## Risk of Rectal Injury (%) from Salvage Therapy for Recurrent Prostate Cancer

A **low risk** means **less likelihood** of rectal injury



Source: Published results for prostate cancer salvage patients:

Salvage Prostatectomy: Paparel et al. (2010)  
Brachytherapy: Boukaram et al. (2010)

HIFU: Chalasani et al. (2009)  
Cryotherapy: Langenhuijsen et al. (2009)

**Your doctor will advise you if you are a candidate for salvage cryotherapy.**

Remember that acting quickly after a rise in a PSA test result is important.

The following are key factors in the success of salvage treatment:<sup>1</sup>

- PSA less than 10ng/ml
- Gleason score of 8 or less
- Clinical stage of tumor T1 or T2 (before salvage therapy)

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1. Kimura et al. BJU Int (2009)