

# PROTON THERAPY:

Proven to Have **Fewer Side Effects** and **Higher Survival Rates**

New data released at the 2017 PTCOG conference further demonstrate that proton therapy can lead to better outcomes for many patients<sup>1</sup>.

1. Abstract Presented at PTCOG-NA October 25, 2017 at National Conference in Chicago. <http://ptcog-na.org>

## WHAT WERE THE FINDINGS?



### DECREASED SIDE EFFECTS

Significantly **fewer patients** treated with **Proton Therapy** reported GI, GU, endocrine or “other” **complications** compared with IMRT.



### INCREASED SURVIVAL RATES

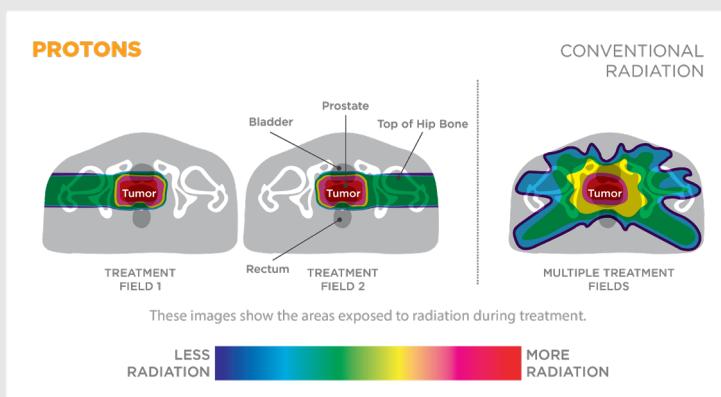
**Proton Beam Therapy** group’s 5-year Overall **Survival** was **93.25%** compared with 88.43% for IMRT. This difference was more significant for intermediate risk patients.

*Additionally, **greater numbers of patients treated with IMRT** developed a treatment related **secondary malignancy** within 5 years of treatment. A relative risk increase greater than 60%.*

“ The data presented by Northwestern University shows that reducing radiation dose matters. With IMRT, there is unnecessary radiation that is given to the bladder and bowel that, in this study, leads to an increase in side effects and treatment-related cancers. ”

**Dr. J. Ben Wilkinson, Medical Director  
Provision CARES Proton Therapy Knoxville**

**Prostate Cancer:** Proton therapy delivers significantly less radiation to the bladder and rectum than conventional radiation, reducing the risk of short and long-term side effects and secondary disease.



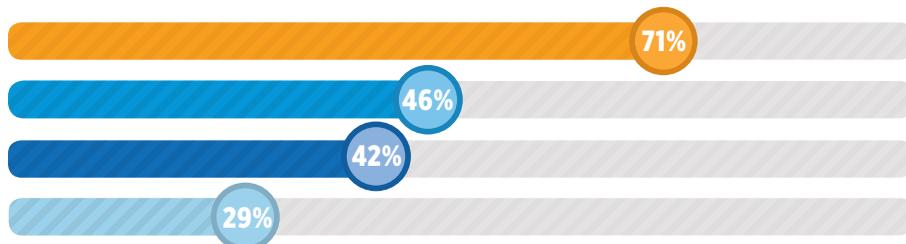
To learn more visit [ProvisionHealthcare.com](http://ProvisionHealthcare.com)

# PROSTATE CANCER PATIENTS RESPOND

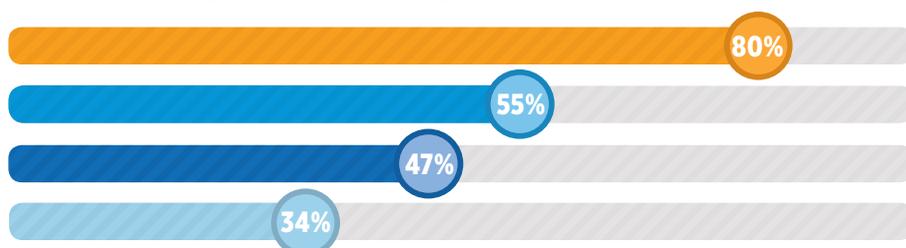
Men treated for prostate cancer using **proton therapy** reported **significantly better quality of life** than other therapy options.\*

\*The information below reflects the percentage of patients that reported their **treatment did not interfere** with the indicated lifestyle side effects.

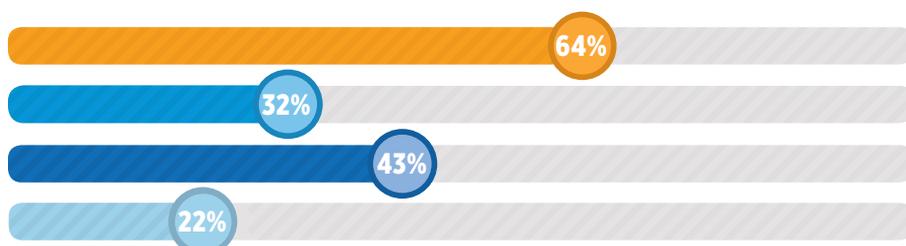
## 1. Overall Quality of Life After Treatment



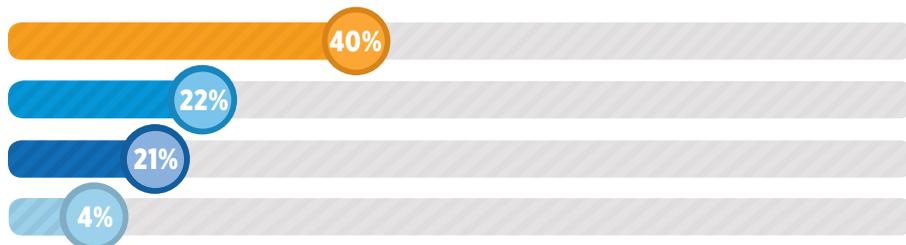
## 2. Remaining Active During Treatment



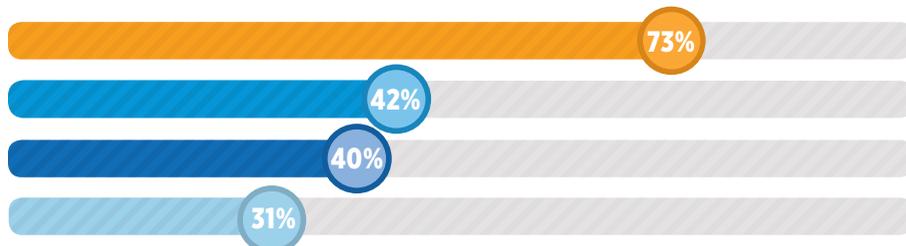
## 3. Ability to Control Urinary Function After Treatment



## 4. Maintaining Sexual Function After Treatment



## 5. Living Life the Way I Want to After Treatment



### Key:

Proton Therapy

Brachytherapy

Conventional Radiation

Surgery

A national survey profiled 755 men, ages 50-75, at least 12 months after prostate cancer treatment. Patients who received proton therapy reported the best outcomes for overall quality of life, urinary function, sexual function, ability to remain active during treatment, and living life the way they wanted to after treatment. Notably, **more than 70% of proton therapy patients reported that treatment did not interfere at all with their overall quality of life.**

**97% of proton therapy patients said they would recommend their treatment to other men** with prostate cancer, significantly higher than the other treatment options.

**Proton therapy** is an advanced form of radiation therapy that uses a beam of high-energy protons to treat various forms of cancer. Unlike conventional radiation therapy, in which x-ray beams deposit most of their energy into the healthy tissue prior to entry and upon exit of the tumor site, the protons can be better controlled, allowing most of the energy to be deposited directly into the tumor and thus **reducing damage to nearby healthy tissue.**