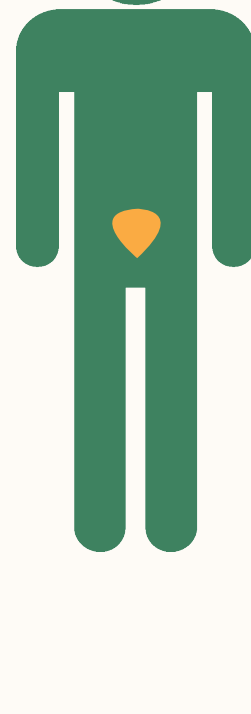


# Bladder Cancer

profile and drug development

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## What is Bladder Cancer?



Bladder Cancer forms in the layers of the bladder wall, most commonly the innermost urothelium layer. The cancer is described and treated based on how far it has moved into the wall of the bladder.

Bladder Cancer is the **9th** most common cancer worldwide, with about **430,000** diagnosed each year.

That's equivalent to the population of Raleigh, NC



**9 out of 10** people with bladder cancer are **over the age of 55**



### Risk Factors

- smoking**
- workplace exposure to carcinogens
- age**
- other urothelial cancers**
- gender**
- ethnicity
- chronic bladder infection**
- genetics**
- race**

### general

- hematuria
- frequent urination
- irritation during urination
- urgency

### advanced

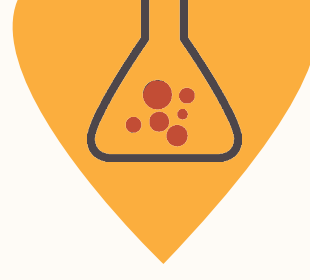
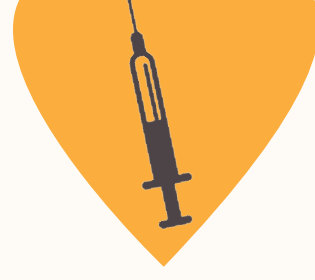
- inability to urinate
- lower back pain
- loss of appetite
- weight loss
- foot swelling
- bone pain

### Symptoms

Finding bladder cancer early increases the chance of successful treatment. Screening tests include **urinalysis, urine cytology, and urine tests for tumor markers.**

## Treatment

**Surgery** is used in nearly all cases of bladder cancer, and is often combined with other types of treatment including: **intravesical therapy, chemotherapy, and radition therapy.**



After surgery, new cancers can form in the bladder over time. The only way to avoid this is a **radical cystectomy**, or removal of the bladder, which can have major side effects.

### 5 year survival rate

- colorectal: 64%
- pancreatic: 6%
- bladder: 77%**
- breast: 89%
- lung: 16%

### by stage

- Stage I: 88%**
- Stage II: 63%**
- Stage III: 46%**
- Stage IV: 15%**

## Future

The molecular pathogenesis of bladder cancer is increasingly **well understood**, but translation of this knowledge into effective biomarkers and therapies has been **largely unsuccessful.**

Therapies in development for the treatment of bladder cancer include:

- Angiogenesis inhibition**
- Growth factor inhibitors**
- Immunotherapeutics**
- Gene therapy**

Learn more about therapies in active development in ISR's "Bladder Cancer Disease and Pipeline Analysis Report"

There are currently **110 active studies** with bladder cancer.