# Healthcare costs of first-line treatment for people with advanced urothelial cancer in the United States

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The full title of this abstract is: Healthcare costs associated with first-line (1L) treatment of patients with locally advanced or metastatic urothelial carcinoma (la/mUC) in the United States (US) Please note this summary contains information

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from the scientific abstract



Urothelial <YOOR-oh-THEE-lee-ul>

Date of summary: October 2023

**Pronunciations** 

**Platinum** < PLAT-num>

Avelumab <a-VEL-yoo-mab>

Medical terms pronunciations

Cisplatin <sis-PLA-tin> Pembrolizumab <pem-bro-LIZ-zoo-mab> **Enfortumab vedotin** < en-FORT-ue-mab ve-DOE-tin>

What are the key takeaways from this summary?

• In this analysis, researchers looked at the healthcare costs of the available first-line treatments for people

Key takeaways

## Platinum-based chemotherapy only

urine from the kidneys to the outside of the body. It includes:

- The tubes that connect the kidneys to the bladder and

the bladder to the outside of the body

Urothelial cancer is called advanced when it has spread

with advanced urothelial cancer in the US, which are:

- Platinum-based chemotherapy followed by avelumab (known as avelumab maintenance treatment)
  - Enfortumab vedotin plus pembrolizumab Healthcare costs were calculated based on 1 year of treatment per prices in 2023
  - In this analysis, researchers found that most people with advanced urothelial cancer would likely be treated with first-line platinum-based chemotherapy followed by avelumab maintenance

Researchers found large differences in the total healthcare costs of the different first-line treatments

- Total costs were highest for enfortumab vedotin plus pembrolizumab and lowest for platinum-based chemotherapy only
- Researchers also found that the price of the drugs makes up most of the total treatment cost
- Understanding the costs of first-line treatment is one of the factors that may help with deciding which treatment to give to people with advanced urothelial cancer
- What did this analysis look at?
- What is advanced urothelial cancer?
- Urothelial cancer is a cancer that develops in the urinary tract Kidneys The urinary tract contains the parts of the body that move

**Urinary tract** 

Bladder

Background

### The bladder The inner part of the kidneys

outside of the urinary tract

cancer receive

chemotherapy has ended

What is avelumab?

and the liver How are people with advanced urothelial cancer usually treated?

Urothelial cancer can spread to nearby tissues or other parts of the body such as bones, lungs,

 Platinum-based chemotherapy is often the first treatment given to people with advanced urothelial cancer. This is called first-line treatment

Platinum-based means that the treatment includes a drug that contains platinum

other words, it aims to maintain or increase the benefit of first-line chemotherapy

If the cancer stops growing or shrinks with first-line chemotherapy, people then receive avelumab maintenance treatment Avelumab maintenance treatment aims to stop the cancer from getting worse or coming back. In

In the US, if a person is unable to receive first-line cisplatin-based chemotherapy, they may receive

Although the cancer may get better with chemotherapy at first, it is likely to start growing again after

Cisplatin is the type of platinum-based chemotherapy that most people with advanced urothelial

- enfortumab vedotin plus pembrolizumab
- and destroy cancer cells. Avelumab is given as a drip (infusion) into a vein for about an hour once every 2 weeks

Avelumab is a type of immunotherapy. Immunotherapy can help the body's immune system find

Results from a study called JAVELIN Bladder 100 showed that avelumab first-line maintenance treatment can help people with advanced urothelial cancer live longer. A plain language

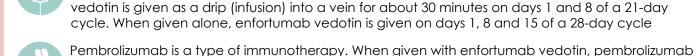
Avelumab is the only approved first-line maintenance treatment available for people with advanced urothelial cancer that stopped growing or shrank with first-line chemotherapy

chemotherapy to target and destroy cancer cells. When given with pembrolizumab, enfortumab

is given as a drip (infusion) into a vein 30 minutes after enfortumab vedotin on day 1 of a 21-day

What are enfortumab vedotin and pembrolizumab? Enfortumab vedotin is a medicine that combines a type of protein called an antibody with a

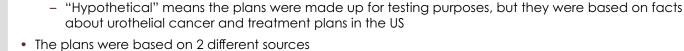
summary of the overall results is available at this link



- cycle In the US, people with advanced urothelial cancer who cannot receive first-line cisplatin-based chemotherapy can receive enfortumab vedotin plus pembrolizumab instead
- How was the analysis done?

A health plan is a type of insurance that people buy to pay for the cost of medical treatment if they

Researchers wanted to look at the healthcare costs (based on prices in 2023 in US dollars) of 1 year of



what first-line treatments they would receive

The costs of disease management

Researchers made 2 hypothetical US health plans

are ill or injured

What did the researchers want to find out?

first-line treatment for people with advanced urothelial cancer in the US

 Medicare (government health plans) - Commercial (private health plans) Each plan had 1 million people

Healthcare costs were calculated based on 1 year of treatment per prices in 2023

The researchers estimated how many of those people would have advanced urothelial cancer and

Disease management includes medical appointments, monitoring of disease (for example by scans),

What did the researchers look at? • The types of first-line treatments people with advanced urothelial cancer would receive The healthcare costs related to the price of the drugs for first-line treatment and giving these drugs to

people (for example, costs related to preparing a drip) · The costs of treating side effects during first-line treatment

What were the results of this analysis?

people in the Medicare

people in a Commercial

health plan

and organization of treatment The costs related to the price of drugs that are used after first-line treatment

In the health plans, how many people were estimated to have advanced urothelial cancer

- and able to receive first-line treatment in 2023?

**Results** 

Aims of this

### In the health plans, roughly what were the total healthcare costs of all first-line treatments over 1 year of treatment?

Medicare

per year (for all 108 people estimated

per person treated per month

to receive treatment)

health plan

For both health plans, what part of treatment cost the most over 1 year of treatment? Most of the total healthcare cost was related to the price of the drugs and giving the treatments

Chemotherapy

followed by avelumab



Chemotherapy

only

Medicare

Medicare

Medicare

\$8,000

Chemotherapy only

Chemotherapy only

Enfortumab vedotin plus pembrolizumab

chemotherapy only

treatment cost

by avelumab

Chemotherapy followed

\$70,000

Chemotherapy only

Medicare

For both health plans combined, how many people with advanced urothelial cancer were expected to receive each available first-line treatment in 2023?

Enfortumab vedotin

plus pembroluzimab

\$116,000

\$15,000

\$562,000

\$518,000

\$41,000

\$52,000

\$31,000

Commercial

people estimated to have

people estimated to have

treatment

Commercial

per year (for all 22 people estimated

advanced urothelial cancer and able to receive first-line

advanced urothelial cancer and able to receive first-line

Chemotherapy followed by avelumab \$175,000 \$120,000 Enfortumab vedotin \$456,000 plus pembrolizumab

For both health plans, roughly what were costs related to the price of the drugs and giving the different first-line treatments per person over 1 year of treatment?

For both health plans, roughly what were the total costs for the different first-line treatments per person over 1 year of treatment?

Commercial

Commercial

Commercial

Commercial Medicare \$8,000 Chemotherapy only \$4,000 Chemotherapy followed \$96,000 \$120,000 by avelumab Enfortumab vedotin \$436,000 plus pembrolizumab For both health plans, roughly what were the costs of treating side effects for the different

first-line treatments per person over 1 year of treatment?

Chemotherapy followed \$22,000 \$12,000 by avelumab Enfortumab vedotin \$26,000 plus pembrolizumab

For both health plans, roughly what were the costs of disease management with the different first-line treatments per person over 1 year of treatment?

\$17,000

\$11,000

Enfortumab vedotin \$18,000 plus pembrolizumab For both health plans, roughly what were the costs related to giving people other treatments after they finished the different first-line treatments per person over 1 year of treatment? Commercial Medicare \$41,000 Chemotherapy only Chemotherapy followed \$2,000 by avelumab

What were the main conclusions reported by the researchers? • In this analysis, researchers estimated that healthcare costs for 1 year of treatment vary for the different firstline treatments available for people with advanced urothelial cancer

- treatment to give to people with advanced urothelial cancer **Disclaimers**
- Who sponsored this analysis?
- Phone: +1 800-283-8088
- Where can I find more information? For more information on this analysis, please visit:

**EMD Serono** 1 Technology Place Rockland, MA 02370, USA

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Conclusions

The costs related to the price of the drugs and giving the treatments make up most of the total · Understanding the costs of first-line treatment is one of the factors that may help with deciding which Avelumab, enfortumab vedotin, and pembrolizumab are approved to treat the condition that is discussed in this summary. This summary reports the results of a single analysis. The results of this analysis may differ from those of other analyses. Health professionals should make treatment decisions based on all available evidence, not on the results of a single analysis.

Healthcare costs are highest for enfortumab vedotin plus pembrolizumab and lowest for platinum-based

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