## TREATMENT UPDATE: Pancreatic Cancer

# CANCER*CARE®*CONNECT BOOKLET SERIES





# Treatment Update: Pancreatic Cancer

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In recent years, additional treatment options have become available to people living with pancreatic cancer, and more are on the horizon.

The pancreas is a gland located behind the stomach in the upper left abdomen. It's about six to ten inches long and is shaped like a flat pear. Cells in the pancreas make enzymes to help the body digest food; the cells also produce essential hormones, including insulin, that help control sugar levels in the blood.

Each year, more than 50,000 people in North America—most over the age of 60—will be diagnosed with pancreatic cancer. More than 95 percent of pancreatic cancers (tumors) form in the gland's exocrine cells. Neuroendocrine (or islet-cell) tumors account for less than 5 percent of all pancreatic cancers. They affect the hormone-producing cells in the pancreas and tend to grow more slowly than exocrine tumors.

After your diagnosis, you and your health care team will discuss the best way to proceed with your treatment. Factors that will influence the choice of treatment include the size of the tumor, its location, how quickly it is growing, whether it has spread to other parts of the body (metastasized), and your overall health.

### Treatment Options

### **Potentially Curative Surgery**

Surgery may be an option for people whose tumor is located in the "head" of the pancreas, or in the regions adjacent to the head such as the "body" or "tail" of the pancreas.

About 15 percent of people diagnosed with pancreatic cancer will be candidates for a Whipple procedure, a surgery for cancers in the head of the pancreas, in which parts of the pancreas, gall bladder, bile duct, and small bowel are removed. A portion of the pancreas is left in place to produce digestive enzymes and make insulin.



Cancers in the body or tail of the pancreas are removed in an operation called a distal pancreatectomy, in which the bottom half of the pancreas is removed. In this surgery, the spleen is also typically removed. In rare instances, patients may require a total pancreatectomy (removal of the entire pancreas, part of the stomach and small intestine, the bile duct, gallbladder, spleen, and nearby lymph nodes).

If surgery is chosen, patients should select a surgeon who has a high level of experience operating on pancreatic cancer, and who works with a dedicated hospital support team. Studies show that patients who undergo pancreatic surgery performed by an experienced surgeon with a strong clinical support team have the best outcomes.

### **Palliative Surgery**

Palliative surgery is sometimes performed to relieve symptoms such as jaundice and blockage of the stomach or duodenum (the upper part of the small intestine). There are a few common types of palliative surgery:

- Biliary bypass surgery reroutes the flow of bile around a tumor blocking the bile duct (a tube that carries bile from the gallbladder to the duodenum).
- Duodenal bypass surgery (gastrojejunostomy) may be performed if the tumor blocks the duodenum; the surgery allows food to pass from the stomach directly into the small bowel.
- Bile duct or duodenal stent insertion is a procedure performed by a gastroenterologist to open a blocked bile duct by inserting a small metal or plastic tube (stent).

### **Radiation Therapy**

Radiation therapy can prevent pancreatic tumors from growing; it can also sometimes shrink the tumors. A form of therapy called external beam radiation is commonly used in treating pancreatic cancer. Standard external beam radiation uses a machine that directs a beam (or multiple beams) of radiation through the skin to the tumor.

Intensity-modulated radiation therapy (IRMT) is a form of external beam radiation that allows a higher dose of radiation to be directed to the tumor, while minimizing the amount of radiation received by healthy tissue near the pancreas. The use of IMRT may result in fewer side effects compared to standard external beam radiation. A newer form of radiation called SBRT (stereotactic radiation) can deliver higher doses of radiation in shorter time periods.

### Chemotherapy

Chemotherapy is the use of drugs to kill cancer cells, usually by stopping the ability of the cells to grow and divide. It is usually given into a vein using a needle (intravenously) or via a pill or capsule (orally). Chemotherapy is often part of the treatment plan for exocrine tumors, the most common type of pancreatic cancer:

- **Neoadjuvant** treatment is when chemotherapy is given before surgery to try to shrink the tumor.
- Adjuvant treatment is the use of chemotherapy after surgery, to try to kill any residual cancer cells not destroyed by the surgery.
- Chemoradiation is when chemotherapy is given along with radiation; it can increase the effectiveness of the radiation, but can lead to increased side effects.

Chemotherapy may also be given if the pancreatic cancer is inoperable, or if surgery isn't an option for another reason.

Gemcitabine (Gemzar) has long been a standard option for patients with cancer that has spread beyond the pancreas. It is approved by the United States Food and Drug Administration (FDA) for the treatment of locally advanced or metastatic unresectable (inoperable) pancreatic cancer for patients previously treated with the chemotherapy drug fluorouracil (5-FU). Gemcitabine can shrink the cancer, ease symptoms and help patients live longer and with a better quality of life. Studies have shown there is also a benefit to using gemcitabine as an adjuvant (after surgery) treatment. Gemcitabine may be given as a single drug, but it is more typically given in combination with other medications.

FOLFIRINOX (a combination of 5-fluorouracil, leucovorin, irinotecan, and oxaliplatin) is also often used in the treatment of metastatic pancreatic cancer. This combination is typically given to physically fit individuals.



In recent years, two new chemotherapy drugs have been approved by the FDA for patients with metastatic pancreatic cancer:

- Albumin-bound paclitaxel (Abraxane), to be used in combination with gemcitabine as a first-line treatment, was approved in 2013.
- Irinotecan liposome injection (Onivyde), to be used in combination with f5-fluorouracil and leucovorin in patients whose disease has grown while on gemcitabine, was approved in 2015.

The drugs most often used in chemoradiation are 5-fluorouracil, capecitabine, and gemcitabine.

### **Targeted Treatments**

Targeted treatments are designed to target the specific cell mechanisms that are important for the growth and survival of tumor cells.

Erlotinib (Tarceva) is the only approved targeted treatment for locally advanced, inoperable, or metastatic pancreatic cancer. Erlotinib targets a protein on cancer cells called EGFR, which normally helps the cells grow. This drug is given in combination with the chemotherapy drug gemcitabine.

In 2011, the FDA approved the targeted therapy drugs sunitinib (Sutent) and everolimus (Afinitor) for the treatment of advanced pancreatic neuroendocrine tumors (PNETs). PNETs account for less than 5 percent of all pancreatic tumors.

### New Approaches Being Studied

### There are several promising new treatment approaches being studied for patients with locally advanced or metastatic pancreatic cancer:

- PEGPH20, an enzyme that breaks down w acid (HA) and lowers the pressure inside tumors. This allows blood to more effectively deliver chemotherapy to cancer cells.
- The addition of targeted treatments to chemotherapy, specifically to FOLFIRINOX or to gemcitabine and albumin-bound paclitaxel.
- Protein kinase D1 (PKD1) is a molecule that pushes normal pancreatic cells to change their shape, which can lead to the formation of tumors. Researchers are developing a PKD1 inhibitor for further testing.
- There are new classes of drugs being evaluated in patients who have certain genetic changes in their cancer or their blood (e.g. BRCA gene changes).
- Immunotherapy approaches.

### The Importance of Clinical Trials

Clinical trials are the standard by which we measure the worth of new treatments and the quality of life of patients as they receive those treatments. For this reason, doctors and researchers urge people with cancer to take part in clinical trials.

Your doctor can guide you in making a decision about whether a clinical trial is right for you. Here are a few things that you should know:

- Often, people who take part in clinical trials gain access to and benefit from new treatments.
- Before you participate in a clinical trial, you will be fully informed as to the risks and benefits of the trial.
- Most clinical trials are designed to test a new treatment against a standard treatment to find out whether the new treatment has any added benefit.
- You can stop taking part in a clinical trial at any time for any reason.



### Managing Treatment Side Effects

All cancer treatments can cause side effects. It's important that you report any side effects that you experience to your health care team so they can help you manage them. Report them right away—don't wait for your next appointment. Doing so will improve your quality of life and allow you to stick with your treatment plan. It's important to remember that not all patients experience all side effects, and patients may experience side effects not listed here.

### **Side Effects of Radiation Therapy**

Changes to the skin are the most common side effects of radiation therapy; those changes can include dryness, swelling, peeling, redness, and blistering. If a reaction occurs, contact your health care team so the appropriate treatment can be prescribed. It's especially important to contact your health care team if there is any open skin or painful areas, as this could indicate an infection. Infections can be treated with an oral antibiotic or topical antibiotic cream.



### **Side Effects of Chemotherapy**

The side effects of chemotherapy depend on the type and dose of drugs given and the length of time they are used, and can include:

- Hair loss
- · Increased risk of infection (from having too few white blood cells)
- · Easy bruising or bleeding
- · Changes in memory or thinking
- Peripheral neuropathy (numbness or tingling in hands and feet)

Mouth sores (mucositis) are also a side effect of chemotherapy. Your doctor may recommend treatments such as:

- Coating agents. These medications coat the entire lining of your mouth, forming a film to protect the sores and minimize pain.
- Topical painkillers. These are medications that can be applied directly to your mouth sores.
- Over-the-counter treatments. These include rinsing with baking soda or salt water, or "magic mouthwash," a term given to a solution to treat mouth sores. Magic mouthwash usually contains at least three of these ingredients: an antibiotic, an antihistamine or local anesthetic, an antifungal, a corticosteroid, and/or an antacid.

Chemotherapy can cause changes in the way food and liquids taste, including causing an unpleasant metallic taste in the mouth. Many people find that switching to plastic utensils helps. It may also help to avoid eating or drinking anything that comes in a can, and to use enamel-coated pots and pans for food preparation.

### **Exocrine Pancreatic Insufficiency (EPI)**

A healthy pancreas secretes enzymes that help with digestion. When a person has pancreatic cancer, the cancer or the treatments for it (including surgery) can affect the ability of the pancreas to secrete these enzymes. This condition is called exocrine pancreatic insufficiency (EPI).

There are prescription pancreatic enzymes available to treat EPI. Talk to your health care team if you experience any of the following symptoms:

- Indigestion, bloating, or cramping after meals
- · Frequent or loose stools or diarrhea
- · Floating or light-colored stools
- · Greasy or fatty stools
- · Foul-smelling gas or stools
- · Unexplained weight loss

### **Managing Digestive Tract Symptoms**

### Nausea and vomiting

- · Avoid food with strong odors, as well as overly sweet, greasy, fried, or highly seasoned food.
- Eat meals cold or at room temperature, which often makes food more easily tolerated.
- · Nibble on dry crackers or toast. These bland foods are easy on the stomach.
- Having something in your stomach when you take medication may help ease nausea.

### Diarrhea

- · Drink plenty of water. Ask your doctor about using drinks such as Gatorade which provide electrolytes as well as liquid. Electrolytes are body salts that must stay in balance for cells to work properly.
- Over-the-counter medicines such as loperamide (Imodium A-D and others) and prescription drugs are available for diarrhea but should be used only if necessary. If the diarrhea is bad enough that you need medicine, discuss it with your doctor or nurse.
- Choose foods that contain soluble fiber—for example beans, oat cereals, oranges, and flaxseeds. High-pectin foods such as peaches, apples, oranges, grapefruit, bananas, and apricots can also help to avoid diarrhea.
- · Avoid food high in refined sugar and those sweetened with sugar alcohols such as sorbitol and mannitol. Look for this low-calorie sweetener on food labels; the names of this type of sweetener usually end with the letters "ol."
- Low fat food choices are less likely to cause diarrhea than fatty, greasy, or fried foods. The fats you eat should come from healthy sources, such as olive oil, canola oil, avocado, olives, nuts, and seeds.
- Limit or avoid lactose, especially if you are lactose-intolerant. There are plant-based milk alternatives you can try, such as soy or rice milk. If lactose is an essential part of your diet, there are dairy products with added lactase (which breaks down lactose) and dietary lactase supplements.

### Managing loss of appetite

- Weight loss is common in people being treated for pancreatic cancer. To help maintain your weight, eat small meals throughout the day. That's an easy way to take in more protein and calories. Try to include protein in every meal.
- To keep from feeling full early, avoid liquids with meals or take only small sips (unless you need liquids to help swallow). Drink most of your liquids between meals.
- Be as physically active as you can. Sometimes, taking a short walk an hour or so before meals can help you feel hungry.
- Keep high-calorie, high-protein snacks on hand such as hard-boiled eggs, peanut butter, cheese, ice cream, granola bars, liquid nutritional supplements, puddings, nuts, canned tuna, or trail mix.
- Eat your favorite foods any time of the day. For example, if you like breakfast foods, eat them for dinner.
- If you are struggling to maintain your appetite, talk to your health care team about whether appetite-building medication could be right for you.



### **Managing Fatigue**

Fatigue (extreme tiredness not helped by sleep) is one of the most common side effects of many cancer treatments. If you are taking a medication, your doctor may lower the dose of the drug, as long as it does not make the treatment less effective. If you are experiencing fatigue, talk to your doctor about whether taking a smaller dose is right for you.

There are a number of other tips for reducing fatigue:

- Take several short naps or breaks.
- Take short walks or do some light exercise, if possible.
- Try easier or shorter versions of the activities you enjoy.
- · Ask your family or friends to help you with tasks you find difficult or tiring.
- Save your energy for things you find most important.

Fatigue can be a symptom of other illnesses, such as anemia, diabetes, thyroid problems, heart disease, rheumatoid arthritis, and depression. So be sure to ask your doctor if he or she thinks any of these conditions may be contributing to your fatigue.

Also, it could be very valuable to talk to an oncology social worker or oncology nurse. These professionals can also help you manage fatigue. They can work with you to manage any emotional or practical concerns that may be causing symptoms and help you find ways to cope.

### **Managing Pain**

To help your doctor prescribe the best medication, it's useful to give an accurate report of your pain. Keep a journal that includes information on:

- · Where the pain occurs.
- · When the pain occurs.
- · How long it lasts.
- How strong it is on a scale of 1 to 10, with 1 being the least amount of pain and 10 the most intense.
- · What makes the pain feel better and what makes it feel more intense.

There are a number of options for pain relief, including prescription and over-the-counter medications. It's important to talk to a member of your health care team before taking any overthe-counter medication, to determine if they are safe and will not interfere with your treatments. Many pain medications can lead to constipation, which may make your pain worse. Your doctor can prescribe medications that help to avoid constipation.

There are options for pain relief that may reduce the need for narcotics and over-the-counter medications:

- Celiac plexus nerve-block is a procedure that can be used to treat abdominal pain in pancreatic cancer. The procedure blocks the celiac nerves with the intent to ease pain.
- **Radiation therapy** is sometimes used to lessen the pain of pancreatic cancer that has spread to the bone. In most cases, stereotactic radiosurgery (SRS) is used. It delivers high-dose, precisely-targeted radiation, which can help preserve healthy tissue. In SRS, there are fewer treatments than when radiation is used to treat the cancer itself.

Physical therapy, acupuncture, and massage may also be of help in managing your pain. Consult with a member of your health care team before beginning any of these activities.



### Importance of Treatment Summaries

A treatment summary, sometimes called a "shadow chart," is a document you create and which remains in your possession. Maintaining your own records allows you and your family members instant access to the specifics of your diagnosis and treatment. A treatment summary should include:

- Your name and date of birth.
- Date of diagnosis.
- Name, affiliation, and contact information of the doctor who gave the diagnosis.
- Prescribed therapy/therapies; include dates started and stopped, and dosages when appropriate.
- Dates and types of post-diagnosis testing, and the results.
- Other medication and supplements you are taking.
- Names, affiliations, and contact information of all members of your health care team.

Talk to your doctor or a member of your health care team about your intention to create a treatment summary, and ask them what else they suggest be included. Take your treatment summary with you when you visit any doctor, not just your oncologist.

### Communicating with Your Health Care Team

As you manage your pancreatic cancer, it's important to remember that you are a consumer of health care. The best way to make decisions about health care is to educate yourself about your diagnosis and the members of your health care team, including nurses, social workers, and patient navigators.

In addition to creating a treatment summary, here are some tips for improving communication with your health care team:

Start a health care journal. Having a health care journal or notebook will allow you to keep all of your health information in one place. You may want to write down the names and contact information of the members of your health care team, as well as any questions for your doctor. Keep a diary of your daily experiences with cancer and treatment. You can separate your journal or notebook into different sections to help keep it organized.

**Prepare a list of questions.** Before your next medical appointment, write down your questions and concerns. Because your doctor may have limited time, you should ask your most important questions first, and be as specific and brief as possible.

Bring someone with you to your appointments. Even if you have a journal and a prepared list of questions or concerns, it's always helpful to have support when you go to your appointments. The person who accompanies you can serve as a second set of

ears. He or she may also think of questions to ask your doctor or remember details about your symptoms or treatment that you may have forgotten.

Write down your doctor's answers. Taking notes will help you remember your doctor's responses, advice, and instructions. If you cannot write down the answers, ask the person who accompanies you to do that for you. If you have a mobile device, ask if you can use it to take notes. Writing notes will help you review the information later.

Record your visit if your doctor allows it. Recording the conversation with your doctor gives you a chance to hear specific information again or share it with family members or friends.

### Incorporate other health care professionals into your team.

Your medical oncologist is an essential member of your health care team, but there are other health care professionals who can help you manage your diagnosis and treatment:

- Your primary care physician should be kept updated about your pancreatic cancer treatment and any test results.
- Gastroenterologists specialize in the diagnosis and treatment of diseases of the digestive system, and are an important part of the multi-disciplinary team approach in the treatment of patients with pancreatic cancer.
- · Your local pharmacist is a great source of knowledge about the medications you are taking; have all of your prescriptions filled at the same pharmacy to avoid the possibility of harmful drug interactions.
- Make sure your oncologist knows of any other medical conditions you have, or any pain you are experiencing, so that they can consult with your primary care physician or your specialist as needed.

### Cancer Care's Free Support Services and Programs

Receiving a diagnosis of pancreatic cancer can be very difficult, and adjusting to the necessary changes in your life can be challenging.

Cancer Care can help. We are a national nonprofit organization providing free, professional services to anyone affected by cancer. Our licensed oncology social workers can provide support and education, help in navigating the complicated health care system, and provide information on support groups and other resources.

To learn more about how Cancer Care helps, call us at 800-813-HOPE (4673) or visit www.cancercare.org.

You will likely also build your own personal support network, comprised of family and friends. In doing so, it's best to take some time to think about the people in your life and how they are best suited to help. Match the task to their strengths—ask a family member who loves to shop to pick up something for you at the store; ask a friend who's a good listener to come over for a chat.



### MORE ABOUT PANCREATIC CANCER

### Frequently Asked Questions

### Q. Should a person diagnosed with pancreatic cancer seek a second opinion?

A. At the time of diagnosis, it makes sense to seek a consultation from a major cancer center or a group of physicians who are experts in managing pancreatic cancer. Another time to seek a consultation or second opinion is if the cancer is not responding to treatment and/or if a change in treatment is warranted. Discussions can include possible changes in treatment approaches, and if participation in a clinical trial should be considered.

### O. How can I tell if I need to increase the dose of pancreatic enzymes I'm taking?

A. Talk to your health care team if you are taking the prescribed dose of pancreatic enzymes and are still experiencing symptoms such as bloating, discomfort after eating, or foul-smelling stools. Your doctor may recommend a larger dose, or a different brand.

### Q. I'm on chemotherapy. Are there any foods that I should avoid? Is it all right to take vitamins?

A. There are no specific foods that should be avoided during chemotherapy, but vitamin supplements should not be taken. Effective chemotherapy requires a process called oxidation, and many supplements contain anti-oxidant properties, which can interfere with treatment. It's important to talk with your health care team before changing your diet.

### Q. Are there any immunotherapies for pancreatic cancer?

A. There are clinical trials underway to study immunotherapy in the treatment of pancreatic cancer. Immune therapies are designed to enhance the immune system's ability to seek out and destroy pancreatic cancer cells.

### Q. Should I have my pancreatic cancer sequenced?

A. In a percentage of cases, genomic-sequencing of pancreatic cancers may reveal genetic mutations that match the needs of current or future clinical trials, or lead to prescribing drugs that are best-suited to the person's individual circumstances. Ask your oncologist if it is in your best interests to have your tumor sequenced.

### O. I've heard that sugar causes cancer tumors to grow. Is that true?

A. There is no scientific evidence that sugar causes cancer to grow. However, diabetes is commonly associated with pancreatic cancer, so it's important to manage your intake of sugar. This doesn't mean eliminating carbohydrates; but it is important to maintain a balanced diet. Talking with a registered dietician can be of great value; there is also helpful information at www.oncologynutrition.org.

### Resources

#### Cancer Care

800-813-HOPE (800-813-4673) www.cancercare.org

### **Hirshberg Foundation for Pancreatic Cancer Research**

310-473-5121 www.pancreatic.org

### **The Lustgarten Foundation**

866-789-1000 www.lustgarten.org

### **Pancreatic Cancer Action Network**

877-435-8650 www.pancan.org

### Pancreatica.org

831-658-0600 www.pancreatica.org

#### **American Cancer Society**

800-227-2345 www.cancer.org

#### Cancer.Net

Patient information from the American Society of Clinical Oncology 888-651-3038 www.cancer.net

#### **Cancer Support Community**

888-793-9355 www.cancersupportcommunity.org

#### **National Cancer Institute**

800-422-6237 www.cancer.gov

### **National Coalition** for Cancer Survivorship

877-622-7937 www.canceradvocacy.org

### **Imerman Angels**

866-463-7626 www.imermanangels.org

### Partnership for **Prescription Assistance**

888-477-2669 www.pparx.org

#### **CLINICAL TRIALS WEBSITES**

### **Coalition of Cancer Cooperative Groups**

www.cancertrialshelp.org

#### **National Cancer Institute**

www.cancer.gov

#### **EmergingMed**

www.emergingmed.com

### **Pancreatic Cancer Action Network**

www.pancan.org

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Help and Hope

WWW.CANCERCARE.ORG 800-813-HOPE (4673)