

Pancreatic Surgery

Whipple Procedure

Royal Columbian Hospital

Your surgery and recovery at home

This booklet belongs to: _____

We also give you '**Preparing for Your Surgery**' booklet.

Read both booklets carefully.

Bring both booklets to every hospital visit before your surgery.

Pancreatic Surgery Using Whipple Procedure (Pancreaticoduodenectomy)

This surgery is usually done to remove growths (tumors) in the pancreas.

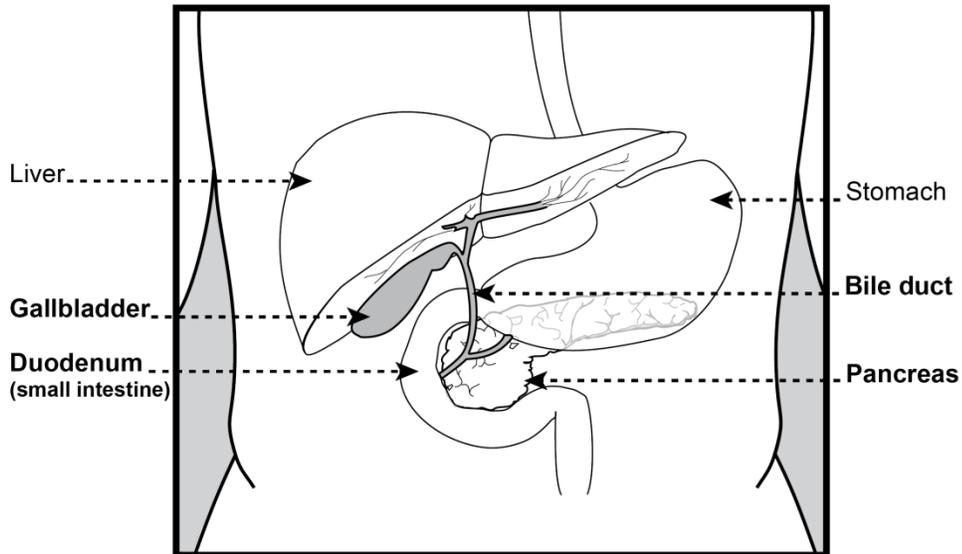
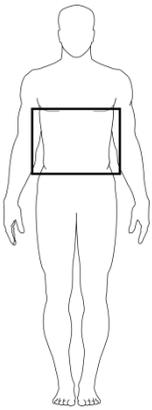
This surgery removes:	What this body part does:
- part of your pancreas	- makes insulin which helps the body use sugar - releases digestive juices and enzymes into the small intestine which help breakdown food
- the upper part of your small intestine (the duodenum)	- first part of the small intestine (or small bowel) after the stomach
- the gallbladder	- stores bile and adds it to the duodenum when fats are needing to be digested
- the lower bile duct	- carries bile from the liver and gallbladder through the pancreas and to the duodenum

Bile

A digestive juice made by the liver

Helps the body break down the fats we eat

Helps the body absorb fat-soluble vitamins



This surgery is done using an 'open incision'. The surgeon makes one long cut through the skin (an incision) and does the surgery through that opening. You will have one long incision in your abdomen.

This surgery usually takes about 5 to 7 hours.

Path to Home Guide: Pancreatic Surgery using Whipple Procedure

This gives you an example of a person's recovery in hospital.

During your stay, we check your blood sugar regularly to see how your pancreas is working.

Category	After Surgery				
	Surgery Day	Day 1	Day 2	Day 3 to 4	Day 5 to home
Nutrition	Nothing by mouth Ice chips only	Nothing by mouth Ice chips only	Nothing by mouth to clear fluids	Clear fluids to full fluids	Diet as tolerated Small frequent meals
Activity	Sit or stand at side of bed Leg exercises	Up to chair Walk 2 or more times Leg exercises	Walk 3 or more times Leg exercises	Continue walking as tolerated Leg exercises	Continue walking as tolerated Leg exercises Getting ready to go home
Deep Breathing Exercises	10 times every hour	10 times every hour	10 times every hour	10 times every hour	10 times every hour
Pain Control	Medicine by epidural or intravenous (*PCA) Pain at a level comfortable for you	Medicine by epidural or intravenous (PCA) Pain at a level comfortable for you	Medicine by epidural or intravenous (PCA) Pain at a level comfortable for you	Medicine by epidural or intravenous (PCA) Pills Pain at a level comfortable for you	Pills Pain at a level comfortable for you
Tubes and lines	Intravenous Surgical drain tube(s) Urinary catheter	Intravenous Surgical drain tube(s) Urinary catheter	Intravenous Surgical drain tube(s) Urinary catheter taken out	Intravenous capped Surgical drain tube(s) removed	Intravenous taken out before going home

* PCA – Patient Controlled Analgesia is a pump connected to your intravenous that lets you give yourself pain medicine when you need it.

After Your Surgery

Going home

How long you stay in the hospital depends on:

- your health before the surgery
- the type of surgery
- how you recover from the surgery

Most people can go home 7 to 8 days after the surgery.

You are ready to go when:

- ✓ You are eating and drinking regular food and drinks.
- ✓ Your bowels are working.
- ✓ Your incision is healing.
- ✓ Your pain is well controlled with pills.
- ✓ You can move around safely.
- ✓ You know what medications (including new ones) you are taking, how to take them, and why you need them.
- ✓ You have prescription(s) for your medications, if needed.
- ✓ You have a ride home from the hospital.
- ✓ You have arranged for some help at home for the first few days.

Caring for Yourself at Home

Managing pain

It is normal to have some discomfort or pain when you return home. This should steadily improve but might last for a few days to a couple of weeks.

The level of pain and type of pain medication you need depends on:

- The type of surgery you had
- How the surgery was done
- If you were taking pain medicine before surgery

Your pain should be at a comfortable level that allows you to move, deep breathe, cough, and to do every day activities.

When you are ready to go home, your surgeon will give you instructions to take pain medicine. This might include a prescription for an opioid (narcotic).

For the first few days:

If your pain is at an uncomfortable level, take your pain medicine as directed. As your pain improves, take your pain medicine less often and/or a smaller amount until you have little or no pain, then stop.

At first, you might have to take a prescription medication. After a short time and as your pain improves, a non-prescription pain medicine should be enough to manage your pain.

Non-prescription pain medicines (also called 'over-the-counter' medicines) are ones you can buy at the pharmacy without a prescription. You might only need to take this type of medicine if you don't have much pain after surgery.

Examples of non-prescription medicines (and brand names):

- acetaminophen (Tylenol®)
- ibuprofen (Advil®, Motrin®) ★
- naproxen (Naprosyn, Aleve®) ★

★ **Note:** These non-prescription medicines are called **non-steroidal anti-inflammatory** (NSAIDs).

NSAIDs are not for everyone after surgery. If you have (or have had) health problems such as stomach ulcers, kidney disease, or a heart condition, check with your surgeon or family practitioner before using NSAIDs.



Questions about medicines?

Call your local pharmacy and ask to speak to the pharmacist.

For after-hours help, call 8-1-1. Ask to speak to a pharmacist.

Family Practitioner: Refers to either a family doctor or nurse practitioner

Remember

You can do other things to help ease your pain or distract you from the pain:

- ✓ Slow breathing
- ✓ Listen to music
- ✓ Watch T.V.

Opioid (narcotic) pain medications are only meant to be taken for a short time, if needed, to manage pain after surgery.

Do not drive or drink alcohol if you are taking opioid medications.

Examples of opioids:

- Tramacet[®] (tramadol and acetaminophen) ★
- Tylenol #3[®] (codeine and acetaminophen) ★
- Oxycocet[®] / Percocet[®] (oxycodone and acetaminophen) ★
- tramadol, hydromorphone, morphine, oxycodone

★ **Note:** These medications also have 300 to 325mg acetaminophen in each tablet. It is important to know because you should not take more than 4000mg of acetaminophen in a day from all sources (too much can harm your liver).

Always read the label and/or information from the pharmacist for how to safely take medication.

Drinking and eating

With removing part of your pancreas and your duodenum, you might need to change how you eat and what you eat. It might take some time before your appetite returns to normal.

Common problems after this type of surgery:

- feeling full quickly
- weight loss
- diarrhea
- intestine cannot absorb fats and proteins (malabsorption)
- 'dumping syndrome'

To help avoid these problems and get the nutrients you need:

- Eat 5 to 6 small meals a day rather than 3 larger ones.
- Eat slowly. Take small bites and chew your food well.
- Eat foods high in protein such as meat, poultry, fish, eggs, dairy, peanut butter, tofu, or legumes.
- Drink at least 6 to 8 glasses of liquid each day (unless you have been told differently because of a medical condition).

Need help with food choices?
Call 8-1-1.
Ask to speak to a dietitian.

If you **feel full quickly**:

- Eat smaller, more frequent meals and snacks.
- Space out your meals and snacks 2 to 3 hours apart.
- Drink liquids between meals instead of during your meals. This way you are not filling up on liquid.

If you are **losing weight**:

- Weigh yourself weekly. Tell your family practitioner if you are losing weight.
- Choose foods that are high in calories and protein.

If your appetite is poor, you might want to drink nutritional drinks (nutritional supplements) such as Ensure® or Boost®.

If you are having **loose stools or diarrhea**:

- Avoid foods and drinks with lots of sugar, fat, caffeine, or spice.
- Avoid foods that act like laxatives such as prunes, prune juice, licorice, or sugar alcohols (such as sorbitol and mannitol).
- Eat foods that can help thicken your bowel movements (poop) such as bananas, white rice, white pasta, bread, cheese, crackers, noodles, potatoes, and oatmeal.

If diarrhea continues, talk with your pharmacist or family practitioner.

If your intestine is not absorbing fats and proteins well (**malabsorption**):

- Talk to your family practitioner when you have pale, frothy or greasy bowel movements. You might need to take digestive enzymes with your meals.



Constipation can happen because you are taking opioid pain medication, are less active, or eating less fibre.

To prevent constipation:

- Drink at least 6 to 8 glasses of liquid each day (unless you have been told differently because of a medical condition).
- Gradually add fibre to your diet.
- Increase your activity.

If you continue to be constipated, talk with a pharmacist or family practitioner.

Dumping Syndrome

After this kind of surgery, a small number of people can develop a digestion problem called 'Dumping Syndrome'.

Signs of dumping syndrome include: feeling sick (nauseated), throwing up (vomiting), stomach cramps, and diarrhea. It can also include sweating, fast heartbeat, and feeling weak (from the rapid rise then drop in blood sugar).

If you notice signs of dumping syndrome, contact your family practitioner.

To prevent dumping syndrome:

- Add high fibre foods back into your meal plan a little at a time (such as whole grain bread, whole grain pasta, fresh fruits, and fresh vegetables).
- Limit sugar or sweet foods (such as table sugar, brown sugar, jelly, jam, preserves, syrup, candy, cake, cookies, sweetened cereals, donuts, icing, pastries).
- Include a protein every time you eat a meal or snack (such as meat, fish, chicken, turkey, egg, nuts, milk, yogurt, cheese).
- Avoid foods that act like laxatives such as prunes, prune juice, licorice, or sugar alcohols (such as sorbitol).
- Drink liquids 30 minutes before or after meals, rather than with meals.



Caring for your incision

Always wash your hands before and after touching around your incision site.

Before you leave the hospital, your nurse will teach you how to care for your incision.

Showering:

- You can shower once most of your tubes and lines have been taken out, usually within 4 days after surgery.
- Continue to take only showers for at least 2 weeks after your surgery.
- Try not to let the shower spray directly on your incision(s) or bandage if still covered. Gently pat the area dry.

For at least the next 2 weeks or until the incision is healed:

- × No soaking in a bath tub or hot tub.
- × No swimming.
- × No creams, lotions, or ointments on your incision, unless directed by your surgeon.

Doing any of these things could delay healing.

Managing moods and emotions

After major surgery, it is quite common to have a low mood or changeable mood at times. If you find your mood is staying low or is getting worse, contact your family practitioner.

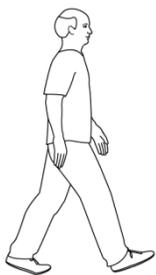
Getting rest

It is very common in the first few weeks to feel tired and have low energy. Rest and sleep help you heal.

Try to get at least 8 hours of sleep each night. Take rest breaks and naps during the day, as needed.

If you have trouble sleeping, talk to your family practitioner.





Being active

Activity and exercise help build and maintain your muscle strength, give you more energy, and help with recovery. You need to find a balance between rest and activity. Pace yourself for the first few weeks.

Slowly increase how much you do each day (your activity level). Increase the distance and time you walk. Only increase your activity level as much as you comfortably can.

If you are still having pain, exercise 30 minutes after you have taken your pain medication.

Your surgeon will tell you when you can increase your activities at your follow-up appointment.

For the next 4 to 6 weeks, limit heavy activities to protect your incision and abdominal muscles:

- ✘ **Do not** lift, push, or pull anything over 4 to 5 kilograms (10 pounds). This includes carrying children and groceries.
- ✘ **Do not** vacuum, rake leaves, paint walls, reach for things in high places, or any other reaching activity.
- ✘ **Do not** play any sports, do high intensity exercise, or weight training.

You can return to **sexual activity** when you feel ready and your pain is well controlled.

Usually, you can return to **driving** when you can shoulder check and comfortably wear your seatbelt. If you are not sure about it, ask your surgeon.

Remember: Do not drive when you are taking opioid pain medication.

Questions you might have:

Examples: 'How will my bowel habits change?' 'When will I be able to return to my regular activities?' 'When can I return to work?'



A 4 litre milk jug weighs 4 kg (9 pounds)



When to get help

Call your surgeon or family practitioner if:

- You have a fever over 38°C (101°F).
- Your incision is warm, red, swollen, or has blood or pus (yellow/green fluid) draining from it.
- You have a cough that continues to get worse.
- You notice stinging, burning, or pain when you urinate (go pee) or your urine smells bad.
- You have redness, tenderness, or pain in your calf or lower leg.
- Your pain does not ease with pain medicine, or stops you from moving and recovering.
- You are throwing up or not able to keep fluids down.
- You have diarrhea that is severe or continues for more than 2 days.
- You feel increasingly tired or dizzy.

Cannot contact the surgeon or family practitioner?

Have any questions about your recovery?

Call **8-1-1** (HealthLinkBC) to speak to a registered nurse any time - day or night.



Available in 130 languages.

For an interpreter, say your language in English. Wait until an interpreter comes on the phone.

Call 9-1-1 if you have any of the following:

- trouble breathing or shortness of breath
- chest pain
- sudden, severe pain

9-1-1



Appointments after surgery

Arrange to have your staples or sutures (stitches) removed 10 to 14 days after the surgery.

I have an appointment with: _____
(surgeon or family practitioner)

My appointment is on: _____

See your family practitioner 7 to 10 days after going home from the hospital.

My appointment is on: _____

See your surgeon 3 to 4 weeks after going home from the hospital.

My appointment is on: _____

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This information does not replace the advice given to you by your healthcare provider.

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