

Patient Instructions



Before and After Your TIF 2.0® or cTIF® Procedure

Merit Medical defines the term "cTIF" as a **consecutive** Transoral Incisionless Fundoplication which consists of a Hiatal Hernia Repair (HHR) followed by a Transoral Incisionless Fundoplication (TIF) procedure under a single anesthesia setting. This brochure is intended to give you a general overview of the TIF 2.0 procedure. ALWAYS follow your doctor's pre-procedure and post-procedure instructions.

Pre-Procedure Instructions

Make sure to inform your doctor about all medications you are currently taking and provide a full history of your medical conditions. Your doctor will give you additional instructions regarding medications you are currently taking. Your doctor may recommend avoiding the following:

Taking any diet aids or herbal supplements that contain ginkgo, garlic, or St. John's Wort for 10 days prior to surgery.

Taking any aspirin, blood thinners, anti-inflammatory medications (e.g., for arthritis), vitamin E, or fish oil for 7 days prior to your procedure.

Smoking or drinking alcohol for 48 hours prior to your procedure.

Eating or drinking anything for at least 12 hours before your procedure (or longer if instructed by your doctor). The TIF 2.0 procedure cannot be performed if there is food in your stomach. Take the medications your doctor has approved with a small amount of water.





Post-Procedure Instructions

Your doctor will determine whether it is necessary for you to spend the night in the hospital after your procedure. For the first few days, you will experience some pain and/or discomfort in your chest and shoulder, and you may have a sore throat and/or some discomfort swallowing. These symptoms should resolve within the first week after your procedure, and appropriate medication will be provided as needed. If symptoms do not resolve, or if discomfort becomes more severe, notify your doctor immediately.

Continue to take your gastroesophageal reflux disease (GERD) medication after your procedure as recommended by your doctor.

Occasional heartburn is normal in healthy people and may depend on diet and other factors, such as stress. If GERD symptoms recur, you should contact your doctor.

Even though the TIF 2.0 procedure can be incisionless, it is still surgery. Like any surgical procedure, success is dependent on how well you adhere to post-procedure instructions, including:



Dietary guidelines



Physical activity and driving



Medications



Return to work



Follow up



Dietary Guidelines

The strength of your new anti-reflux valve is largely determined by how well it heals. What you eat and drink can dramatically impact the durability of your anti-reflux valve. You may be asked to follow a liquid diet, followed by a mashed and soft-food diet as your newly reconstructed valve heals.

If you experience heartburn, write down the food that gave you heartburn and avoid eating it. Talk to your doctor at your next visit about your food-associated symptoms. Remember, it is normal for some people (non-GERD patients) to occasionally experience heartburn from specific foods. Food-specific heartburn does not mean your valve is not functioning correctly. If your symptoms persist, contact your doctor immediately.

During the 6-week post-procedure period, it is important that you adhere to your doctor's specific guidelines, which may include the following:

Eat four to five small meals consisting of soft foods throughout the day.

Take small bites and chew your food thoroughly for 30 seconds to avoid swallowing a large bolus of food.

Avoid foods with coarse texture (e.g., nuts, raw fruits, and raw vegetables).

Try not to vomit, cough, retch, or strain.
This can significantly affect the healing and effectiveness of your new anti-reflux valve.

During the healing process, avoid foods and drinks that triggered your reflux in the past. You may reintroduce them slowly after healing.

Remain in an upright position for 1 hour after eating.

Do not eat for at least 2 hours before bedtime.

Do not drink carbonated beverages or alcohol.

Avoid spicy foods.

Avoid foods and drinks that are very hot or very cold.

Follow your doctor's instructions to wean yourself off anti-reflux medications.

Do not smoke.

Avoid gas-forming, acid-producing foods, or foods that slow gastric emptying, such as tomato-based products, peppermint, black pepper, caffeinated drinks, onions, green peppers, fatty foods, beans, citrus fruits, and fiber supplements.

Taking over-the-counter, anti-gas medications may be helpful.

Weeks 1 and 2: Liquid Diet

The first 2 weeks after your procedure are extremely important. That is why your doctor may ask you to be particularly cautious with your diet.

Your doctor may advise you to stay on liquids for the first 1–3 days after your TIF 2.0 procedure. This diet contains only fluids that are clear and very low in sugar. However, it is not nutritionally balanced and will only be used a few days.

Your doctor may ask you to avoid beverages with alcohol, caffeine, carbonation (e.g., soft drinks), or acidic drinks (e.g., tomato, grapefruit, and orange juice).

Liquids commonly allowed on weeks 1 and 2:

Water, plain, or lightly flavored (non-carbonated)

Milk, decaffeinated tea, or caffeine-free drinks

Diet decaffeinated drinks (non-carbonated)

Diluted electrolyte drinks

Strained soups

Diluted, light, or diet apple or white grape juice

Non-acidic fruit or vegetable juices (without chunks)

Liquid puddings and creams

Sherbets or ice creams (without chunks)

Milkshakes

Baby food





Be sure to drink a minimum of 4–8 oz of water between each meal.

Do not take large gulps. Sip liquids and rest between sips. Allow 20 minutes to drink $\frac{1}{2}$ cup. You may sip on fluids all day if you wish but at least 6–8 times per day.

Take your prescribed medications as instructed by your doctor. Proton-pump inhibitors (PPIs) should be taken for at least 2 weeks and then weaned off according to physician recommendation. If pills/capsules are larger than a peanut, discuss with your pharmacist if they can be halved, crushed, or if there are liquid options available to minimize hard swallowing.

Take vitamin/mineral supplements every day, being mindful of pill/capsule size, as noted above. This will help prevent vitamin and mineral deficiencies.

It is helpful to eat a very-low fat diet to minimize heartburn symptoms.

Restaurant foods are not recommended during the first few weeks.

The following protein supplements can be used starting on day 4:

Protein-enriched commercially available shakes.

You can also add one scoop of concentrated protein powder to your bowl of soup or glass of juice.

During week 2, a liquid diet may still be recommended, but you may add potato-based and non-stringy vegetable mashes.

This diet consists of full-protein liquids and blended solids. The portions should remain small and not exceed $\frac{1}{2}$ cup to help prevent vomiting and to give your newly reconstructed valve proper time to heal.

Eat 4–6 small meals each day. They may include milk, vegetable broth, or diluted fruit juice. Sip liquid meals slowly. Drink 4 oz (1/2 cup) over the course of 20-30 minutes.

Tips on how to blend foods:

Cut foods into small pieces

Place food into a blender or food processor

Add liquid, such as broth, juice, or milk

Blend or puree until smooth

Strain foods that do not blend into a completely smooth consistency

Season foods to taste



Weeks 1 and 2: Shopping List

Water, plain, and lightly flavored liquid (non-carbonated)
Milk and decaffeinated tea
Diet decaffeinated drinks (non-carbonated)
Electrolyte drinks
Apple juice or white grape juice
Non-acidic fruit or vegetable juices (without chunks)
Strained soups
Liquid puddings and creams
Sherbets and ice creams (without chunks)
Milkshakes
Baby food

Recipes

Protein-Fortified Breakfast Drink

½ packet Carnation Instant Breakfast

 $\frac{1}{2}$ scoop of whey protein powder

4 oz skim milk

Amount per serving ($\frac{1}{2}$ cup): 120 calories, 15 g protein

PB Protein Pudding

1 packet sugar-free pudding

1/4 cup dry milk

1/4 cup peanut butter

2 cups skim milk

Amount per serving ($\frac{1}{4}$ cup): 100 calories, 6 g protein

Eggnog

½ cup skim milk

½ package Carnation Instant Breakfast

1/4 cup liquid egg substitute

Amount per serving ($\frac{1}{2}$ cup): 110 calories, 13 g protein

Food Guide

	Water (
ids, gar	Milk, decaffeinated tea, ca
Clear liquids Iow in sugar	Diet and decaffeinated drinks, diluted
ar I v in	Broth of any kind, strained soups (n
O S	Diluted, light or diet apple or
	Non-acidic fruit or vegetable juice
	Liquid pudd
(0	Sherbets, ice creams, milkshakes
uid	Drinkable ya
Full liquids	Protein-enriched commercially
퉅	Very liquid, po
	Non-string
re, od	Well-cooked & pureed vegetables (n
xtu t fo	Canned fru
Soft-texture, ow-fat food	Bananas
Sof	
	Moist, mas
	Well-cooked lean ground f
	Sr
Medium- texture food	
Aedium texture food	Cereals (
₹ +	

	Day 0-3	Day 4–14	Weeks 3–4	Weeks 5-6
(non-carbonated)	•	•	•	•
ffeine-free drinks	•	•	•	•
electrolyte drinks	•	•	•	•
ot tomato based)	•	•	•	•
white grape juice	•	•	•	•
(without chunks)	•	•	•	•
lings and creams	0	•	•	•
(without chunks)	0	•	•	•
ogurt (no chunks)	0	•	•	•
available shakes	0	•	•	•
tato-based mash	0	•	•	•
vegetable mash	0	•	•	•
Baby food	0	•	•	•
Cottage cheese	0	0	•	•
Oatmeal	0	0	•	•
nashed potatoes)	0	0	•	•
uit (without skins)	0	0	•	•
s, melons, berries	0	0	•	•
Soft eggs, tofu	0	0	•	•
hed boneless fish	0	0	•	•
ood (e.g., turkey)	0	0	•	•
mall, soft noodles	0	0	0	•
Non-sticky rice	0	0	0	•
(softened in milk)	0	0	0	•
Soft cheeses	0	0	0	•

Weeks 3 and 4: Shopping List

	Milk, fruit, and vegetable juices
	Tea and coffee
	Potatoes and/or vegetables to mash
	Oatmeal
	Puddings, ice creams, and sherbets
	Butter and margarine
	Soups (without chunks)
	Tofu
	Well-cooked ground food: slowly introduce finely ground fish
	or turkey
We	eeks 5 and 6: Shopping List
We	
We	eeks 5 and 6: Shopping List Pasta (small noodles) and
We	Pasta (small noodles) and non-sticky rice Thicker soups or soups with small
We	Pasta (small noodles) and non-sticky rice Thicker soups or soups with small pieces of vegetables
We	Pasta (small noodles) and non-sticky rice Thicker soups or soups with small pieces of vegetables Sauces



Weeks 3 and 4: Soft Diet

This diet consists of blended foods with one new solid food added daily. Portions should be small and not exceeding 1 cup to help prevent vomiting and to encourage proper healing of your newly reconstructed valve.

Foods that are likely allowed:

Water, milk, fruit juices, and vegetable juices

Tea and coffee (in small quantities)

Mashed vegetables and/or potatoes

Oatmeal

Puddings, ice creams, and sherbets

Butter and margarine

Soups (without chunks)

Tofu

Slowly introduce well-cooked, finely ground meats, such as fish or turkey

Foods to avoid:

Raw or undercooked food

Alcoholic and carbonated beverages

Pasta and bread

Cakes, pancakes, waffles, cookies, etc.

Chips, french fries, popcorn, etc.

Pepper and hot sauces

Dry fruits and cereals

High-fat food

Consume vitamin-rich fruit juices each day. Refrain from acidic fruit juices, like orange, lemon, or lime. Plum juice and/or apricot juice can help to avoid constipation.

Weeks 5 and 6: Solid Diet

Depending on your tolerance level, you may introduce:

Overcooked pasta (small noodles) and non-sticky rice

Thicker soups or soups with small pieces of vegetables

Sauces

Bananas

Soft cheeses

Cooked vegetables

Meatless casseroles

Food commonly avoided:

Fibrous meats

Fibrous vegetables

Eat seated, in a quiet place, without stress. Chew your food thoroughly. Eat slowly.

Avoid consuming large quantities of food. Avoid carbonated beverages or alcohol.

If you have a burning sensation after consuming a particular food, try to avoid it, and mention it to your doctor at your next visit.

A burning sensation could mean that your newly reconstructed valve is operating correctly. However, if your symptoms persist, contact your doctor as soon as possible.

At the start of week 7, you can eat normal food, but try to continue eating small meals.

Physical Activity

Walking is permitted and encouraged by most doctors after your procedure. Begin to walk short distances, at a slow pace, and with someone who can assist you in case you experience any residual weakness due to anesthesia. Gradually increase the distance and duration of your walks until you feel you are back to normal. You may also climb stairs, although do it slowly for the first few weeks to reduce the risk of increasing abdominal pressure.

In order to give your newly reconstructed valve time to heal, it is important you adhere to your doctor's recommendations on when to commence physical activity. The following is a typical regime after the TIF 2.0 procedure.

For the first 2 weeks, do not lift anything over 5 pounds. During weeks 3–6, you may lift items up to 10 pounds. Beginning in week 7, lift items you normally would.

Sports and other intense exercise should be avoided for the first 6 weeks following your procedure. Then consult with your doctor to determine if you are ready to resume your normal exercise routine.

Driving may be resumed 1–2 days after the procedure. Do not drive if you are taking prescription pain medication, are experiencing fatigue, or are feeling sore.

Sex may be resumed after 7 days.



Medications

Your doctor will determine your need for acidreducing medications following your procedure.

Before leaving the hospital, your doctor may prescribe pain medications. It is important that you take this medication as prescribed. If your pain is not well managed, contact your doctor.

Follow Up

After the procedure, your doctor will see you to assess the effectiveness of the TIF 2.0 procedure. Your doctor may also schedule additional follow-up appointments.

Return to Work

Most patients will be able to return to work 3–7 days after the procedure. You and your doctor should determine a timetable for returning to work based on a number of factors, including residual fatigue from general anesthesia, any complications during the procedure, your overall medical condition, and your general need for recovery time.

If you work a job that requires significant physical activity, your doctor will advise you on when to resume all your normal job functions.

If you are experiencing any of the following symptoms after your procedure, call your doctor immediately, or go to your doctor's hospital's emergency room.

- Fever greater than 101°F
- ✓ Increased upper abdominal pain
- ✓ Difficulty or pain while swallowing
- Sore throat lasting more than seven days
- Chest pain
- ✓ Shoulder pain lasting more than 3–7 days
- Any condition not improving or worsening

Monitoring Your Progress

It is helpful to compare your symptoms pre and post procedure. Please answer these questions today, and check in again 8 weeks after your procedure to see what has changed.

Rate how you are feeling:

0 = Hardly ever, 3 = Sometimes, 5 = Frequently

Before your TIF 2.0 procedure	0	1	2	3	4	5
How often does heartburn bother you on a daily basis?						
How often does regurgitation bother you on a daily basis?						
How often do your reflux symptoms prevent you from getting a restful night of sleep?						
How often does your reflux condition impact your daily activities?						
How often does coughing bother you on a daily basis?						
How often does your reflux condition impact your social life?						
How often are you dependent on medications to control reflux symptoms?						
Overall satisfaction with your health condition (0 = Low, 3 = Neutral, 5 = High)						



Eight weeks after your TIF 2.0 procedure	0	1	2	3	4	5
How often does heartburn bother you on a daily basis?						
How often does regurgitation bother you on a daily basis?						
How often do your reflux symptoms prevent you from getting a restful night of sleep?						
How often does your reflux condition impact your daily activities?						
How often does coughing bother you on a daily basis?						
How often does your reflux condition impact your social life?						
How often are you dependent on medications to control reflux symptoms?						
Overall satisfaction with your health condition (0 = Low, 3 = Neutral, 5 = High)						



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Important Notice: While clinical studies support the effectiveness of TIF 2.0 (Transoral Incisionless Fundoplication) procedure in treating chronic gastroesophageal reflux disease (GERD), individual results may vary. This information is not intended nor recommended as a substitute for medical advice, diagnosis, or treatment. The TIF 2.0 procedure may not be appropriate for every individual, and it may not be applicable to your condition. Always ask your doctor about all treatment options as well as their risks and benefits.

This brochure was created by Merit Medical and has been reviewed by physician consultants of Merit Medical Systems Inc. We understand every physician may have a difference of opinion, which is your right. Feel free to modify it to improve your patients' recovery after the TIF 2.0 procedure.

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