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HENRY FORD HOSPITAL



*WHERE MIRACLES
HAPPEN.*

**Intestine Transplant and
Rehabilitation Program**



**HENRY FORD
TRANSPLANT INSTITUTE**

Henry Ford Hospital
2799 W. Grand Blvd., CFP-220
Detroit, MI 48202

138210



**HENRY FORD
TRANSPLANT INSTITUTE**



Henry Ford Hospital is the only hospital in Michigan offering a comprehensive Intestine Transplant and Rehabilitation Program.

A major referral center for complex gastrointestinal conditions, Henry Ford Hospital delivers the full range of services for intestine failure including:

- Intestine rehabilitation and medical treatments
- Surgery
- Intestine transplant
- Multivisceral transplant (intestine transplant combined with other organs)

WHAT WE TREAT

Intestine failure can be caused by short bowel syndrome beginning at birth (congenital), or as a result of intestine injury or disease. Problems with the intestine affect your body's ability to absorb and digest important food, fluids and nutrients.

STRUCTURAL CAUSES OF INTESTINE FAILURE

Short bowel syndrome

Blockage or obstruction of the bowel due to:

- Hernia
- Twisted intestine (volvulus)
- Folded intestine (intussusception)

Surgical removal of part of the intestine due to:

- Tissue death (necrotizing enterocolitis)
- Inadequate blood flow to small intestine (mesenteric ischemia or thrombosis)
- Trauma to the abdomen
- Malrotation/volvulus
- Tumor
- Crohn's disease

FUNCTIONAL CAUSES OF INTESTINE FAILURE

- Chronic intestine obstruction or pseudo-obstruction
- Celiac disease
- Damage from radiation therapy
- Chronic diarrhea (congenital villous atrophy/microvillous inclusion disease/tufting enteropathy)
- Fistula
- Hirschsprung's disease
- Inflammatory bowel disease
- Intestine dysmotility



INTESTINE REHABILITATION & MEDICAL TREATMENTS

The goal of Intestine Rehabilitation is to improve your quality of life by reducing your dependence on total parenteral nutrition (TPN) or intravenous feeding, and prolong or prevent the need for intestine transplant.

We bring together a team of experts to help you live a normal life with your remaining short bowel through:

- Nutritional counseling and dietary changes, including:
 - necessary nutrients
 - complex carbohydrates, low fiber, and restricted fat
 - small meals of dry foods with no fluid intake at least an hour after the meal
- Intestine adaption to improve absorption of electrolytes, fluids and nutrients by promoting:
 - taller villi
 - deeper crypts
 - increased ileal diameter and length
- Medication to manage complications, such as diarrhea, peptic ulcers, gallstones, kidney stones, D-lactic acidosis

SURGERY

Sometimes surgery is necessary to improve function, encourage better nutrient absorption, and preserve the remaining short bowel. The surgical team at the Henry Ford Intestine Transplant and Rehabilitation Program are experts in the most innovative surgical techniques:

Surgery to correct slow intestinal transit:

- Strictureplasty
- Partial obstruction
- Blind loops
- Enteroenteric fistulas

Surgery to increase surface area:

- Intestine lengthening
 - Longitudinal intestinal lengthening and tailoring (Bianchi LILT)
 - Serial transverse enteroplasty (STEP)

Surgery to improve intestinal motility with dilated bowel:

- Intestine tapering

Surgery to slow intestinal transit without dilated bowel:

- Segmental reversal of small bowel (SRSB)
- Isoperistaltic colonic interposition

INTESTINE AND MULTIVISCERAL TRANSPLANT

The Henry Ford Transplant Institute is among only a handful of transplant centers in the United States offering comprehensive intestine and multivisceral transplant in adults. Since pioneering Michigan's first intestine transplant in 2010, the Henry Ford Transplant Institute continues to grow its volume and waitlist, performing nine in 2016.

Over the last decade, outcomes for intestine and multivisceral transplant have greatly improved due to advancements in surgical techniques and anti-rejection therapies.

Our transplant surgeons perform the full array of intestine and multivisceral transplant procedures. For patients needing transplant of the intestine along with additional abdominal organs, our highly experienced liver and pancreas transplant surgeons allow us to offer multivisceral transplants.

Transplants performed include:

- Isolated intestine transplant, for patients with short bowel syndrome and no liver disease
- Modified multivisceral transplant, for patients with short bowel syndrome requiring intestine, stomach, and pancreaticoduodenal complex
- Full multivisceral transplant, for patients with short bowel syndrome requiring intestine, stomach, pancreaticoduodenal complex and liver transplant

A TEAM APPROACH

The Henry Ford Intestine Transplant and Rehabilitation Program offers expertise throughout every step of the care continuum. From our nurses, registered dietitians, pharmacists, and social workers, to gastroenterologists, interventional radiologists and surgeons, you can be assured that our medical team members are experts in managing complex intestine failure.

INTESTINE SURGERY & TRANSPLANT:

Shunji Nagai, M.D., Ph.D.

Surgical Director, Intestine Transplant and Rehabilitation

Michael Rizzari, M.D.

Transplant Surgeon

Marwan Abouljoud, M.D.

Director, Henry Ford Transplant Institute

Atsushi Yoshida, M.D

Transplant Surgeon

Surgical Director, Liver Transplant

Kelly Collins, M.D.

Transplant Surgeon

GASTROENTEROLOGY:

Yakir Muszkat, M.D.

Medical Director, Intestine Transplant and Rehabilitation

Syed-Mohammed Jafri, M.D.

Transplant Gastroenterologist

PROGRAM COORDINATORS:

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Henry Ford Intestine Transplant and Rehabilitation Program

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