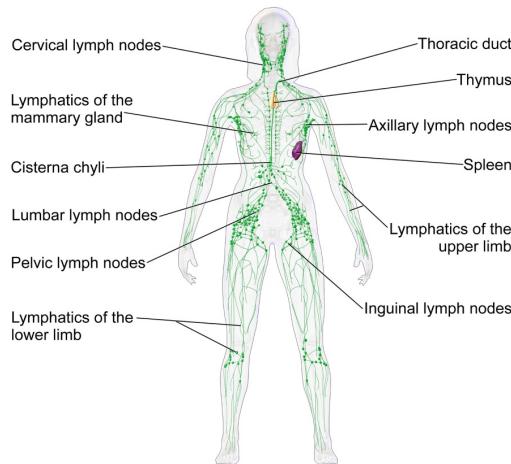


# Shining Light on The Lymphatic System

## 21st Century Discoveries - What Everyone Should Know About

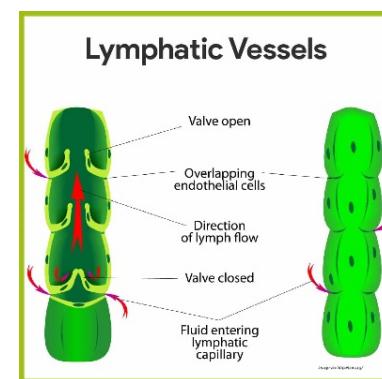
### Your Invisible, Essential Lymphatic System



*What's the mysterious other circulatory system we know little about?*

One question on a biology test was all we knew about the lymphatic system in most 20<sup>th</sup> century classrooms. But our body's combined **transportation, cleaning, and disease-fighting system** now deserves its own chapter in every biology textbook. Test your 21st century knowledge about the lymphatic system.

**Lympha** was the Roman goddess of fresh water. The human **lymphatic** system transports fluid and waste from all parts of the body to central collecting organs - the **thoracic duct, right lymphatic duct, and cisterna chyli**. Like our veins, tiny **lymphatic vessels** have flaps that work like check valves in a hydraulic system to move fluid in one direction - toward these central organs – see *illustrations*.



The debris, pathogens, and products carried by Lympha's waters (**lymph**) are filtered and analyzed in stations (called **lymph nodes** and lymphatic organs) throughout the body. They are the first line of defense against **pathogens**, and often start an **immune response** to these microorganisms that make the body sick.

In the **digestive system**, lymphatic capillaries called **lacteals** in the small intestines collect valuable fluids and long-chain fats to transport to the rest of the body. And in the brain, the **glymphatic system** uses lymphatic fluid to wash our brain cells while we sleep.

In 2010, scientists showed that the hair-sized **lymphatic vessels drain and transport most fluid that exits the circulatory system** into tissues. Previously, we thought veins did this important work – this was known as the Starling Principle. But the **Revised Starling Principle** includes the revolutionary new understanding that the lymphatic channels of our body's **sewer system** are involved in all forms of fluid transport and inflammation drainage.

## For More Information - Check out these resources

[Lymphatic system - Wikipedia](#)

[Anatomy of the Lymphatic and Immune Systems](#)

LaMantia, Jean. [Gut Lymphatics and Long Chain Triglycerides](#)

Jessen NA, Munk AS, Lundgaard I, Nedergaard M. [The Glymphatic System: A Beginner's Guide](#)

J. Rodney Levick, C. Charles Michel, [Microvascular fluid exchange and the revised Starling Principle](#)

Hettrick H, Aviles F. [All edema is lymphedema.](#)

## Lymphedema is Like a Blocked Drain

Humans build **sewer systems** to control water around our cities. Roads flood in heavy rain. Water shimmers as it races downhill to storm drains, which are connected by sewer pipes to central collecting and filtering ponds. When unblocked and undamaged, this system clears the streets in a few hours, and the water carries away dirt, leaves, and other debris.

Like underground sewer pipes, lymphatic channels perform their essential work unseen and unappreciated... unless that 'sewer pipe' gets blocked or damaged.



World  
Lymphedema  
Day®  
March 6

**Lymphatic Dysfunction** can come from a genetic abnormality, disease, or injury. Human flooding, called swelling, **edema**, or **inflammation**, is typically cleared a short time after an accident or infection temporarily overwhelms our **body's sewer system**. But blocked or slow lymphatic channels can lead to chronic, lifetime swelling called **lymphedema**. Millions of people have some stage of lymphedema, which can be treated by a **Certified Lymphedema Therapist**, usually a physical or occupational therapist with special training.

Wednesday, March 6, 2024, is [World Lymphedema Day](#) designated to raise awareness about the mysterious, miraculous lymphatic system and research on lymphatic dysfunction. Celebrate by learning more about this invisible organ system, essential to our human ecosystem.

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## Lymphedema Treatment Act Coverage Webinar



The Lighthouse Lymphedema Network and Sigvaris Group are sponsoring a webinar on **Wednesday, April 17th at 6 pm**. Register for this Zoom presentation at: [LighthouseLymphedema.org](http://LighthouseLymphedema.org)

The LLN and Sigvaris Present:  
Medicare's Coverage of Compression Bandages and Garments:  
What We Know As of Today

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### Upcoming Events for Therapists and Patients

- [World Lymphedema Day – Lymphatic Education & Research Network - March 6](#)
- [Power Symposium in Las Vegas, NV, sponsored by Juzo – March 12-14](#)
- [Georgia Alliance for Breast Cancer – Giving Gala – March 23](#)
- [Lighthouse Lymphedema Network Webinar on Medicare Coverage - April 17](#)
- [FDRS – Fat Disorders Research Symposium – St. Louis, MO- April 19-21](#)
- [Georgia Alliance for Breast Cancer – 2-Day Walk – September 28-29](#)
- [Lighthouse Lymphedema Network – Conference in Atlanta – October 18-19](#)

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