

Newspaper in Education Presents
Inquizi
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SCHOOL
Biz



Bringing Careers to Life

Manatee Technical Institute (MTI) offers a Hemodialysis Technician program that may just jump-start your future. Are you a people person? Do you like state of the art equipment? Is job flexibility important to you? If you answered yes to any of these questions, you may want to learn more about becoming a hemodialysis technician.

Bringing this career to life at MTI East is instructor Ernest Waguespack. When asked, "What do you like most about the program?" Ernest replied, "The ability to teach a subject and technical skill only offered at one other facility in the state of Florida." The course is designed to teach students theory as well as offer real world clinical experience with a strong emphasis on understanding the *why?* behind the process. Ernest says, "I can teach most anyone what to do, but I feel it is more important that they can tell me why they are doing it."

The Hemodialysis Technician Program curriculum meets the guidelines for national certification. Graduates of this program may sit for the national phlebotomy certification examination.



DISCOVER
the
Future



Regional Careers: Here are examples of various occupations and current wages in the Suncoast Workforce Region.

| Occupational Title | Entry Level | Experienced |
|--|-------------|-------------|
| Biological Technicians | \$16.56 | \$20.07 |
| Nuclear Medicine Technologists | \$26.88 | \$32.82 |
| Radiologic Technologists | \$19.83 | \$28.77 |
| Healthcare Practitioners and Technical Occupations | \$15.27 | \$38.73 |
| Medical Services Managers | \$28.90 | \$48.30 |
| Medical Equipment Preparers | \$10.61 | \$13.62 |
| Medical Transcriptionists | \$13.15 | \$18.15 |

Source: <http://fred.labormarketinfo.com> FL Labor Market Statistics, Occupational Employment Statistics & Wages Program

Career Pathway: Students of any age or status desiring a new career can find many healthcare programs at Manatee Technical Institute—East Campus.

WEB
Wise

Check out the following websites:

- www.kidney.org
- <http://health.howstuffworks.com/kidney.htm>
- www.manateetechnicalinstitute.org/east_camp
- www.skillsusa.org

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InnoVators

**MTI'S HEMODIALYSIS PROGRAM
BLOOD: CLEAN AND CRUCIAL**



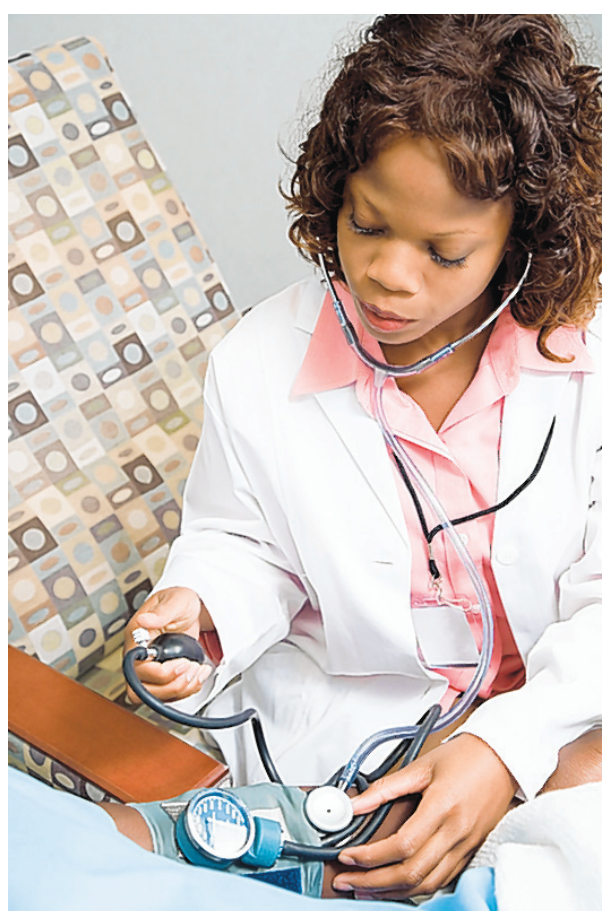
Our culture has mixed feelings about blood. Some people panic if a finger starts bleeding. It doesn't faze others as easily, particularly surgeons or EMTs who see blood everyday. People who view bloody scenes in violent movies or video games may treat blood a little too casually, and healthy people who've never experienced blood loss might take this crucial substance for granted.

Some say life is in the blood. Without healthy blood, we could die. Blood doesn't achieve its amazing purposes alone; it needs help from two important organs, the *kidneys*. Located in the back of the abdomen on either side of the spine, kidneys "clean" or filter blood and eliminate waste products, control blood pressure, and produce a hormone that stimulates bone marrow to make red blood cells. As blood enters the kidneys, kidneys monitor levels of body fluids and can sense how much water to excrete as urine.

If kidneys fail, people get seriously ill—or worse. Sometimes kidneys fail due to blood loss, dehydration, infection, and even some medications which are toxic to kidneys. Every drug you put into your body passes through your kidneys. Kidney failure means that wastes aren't filtered out of the blood and blood pressure can skyrocket.

When kidneys fail, patients must clean their blood through a process called *hemodialysis*. *Hemo* means *blood*; *dialysis* is the artificial replacement for lost kidney function. The dialysis machine simply acts as a kidney. It lets blood flow a few ounces at a time through a filter that removes wastes and excess fluids and then sends the blood back into the body. Hemodialysis is performed by trained medical technicians, and must be administered about three times per week for several hours each session, depending on the patient's size and health.

We know that blood is vital to our survival—but only if it's clean. Thanks to the kidneys' amazing filtering system and the advanced medical technology of hemodialysis, we can keep our blood working as it should.



Stepping Out & Starting Over

Dave Olsen had not been back to school in awhile. He had always worked outdoors and was busy with a career in golf course management and development. Suddenly an injury precluded Dave from doing the work he had done all his life and he found himself in need of a career change. After contacting the Florida Department of Vocational Rehabilitation, Dave stepped out of his comfort zone and started a new career at Manatee Technical Institute (MTI) East.

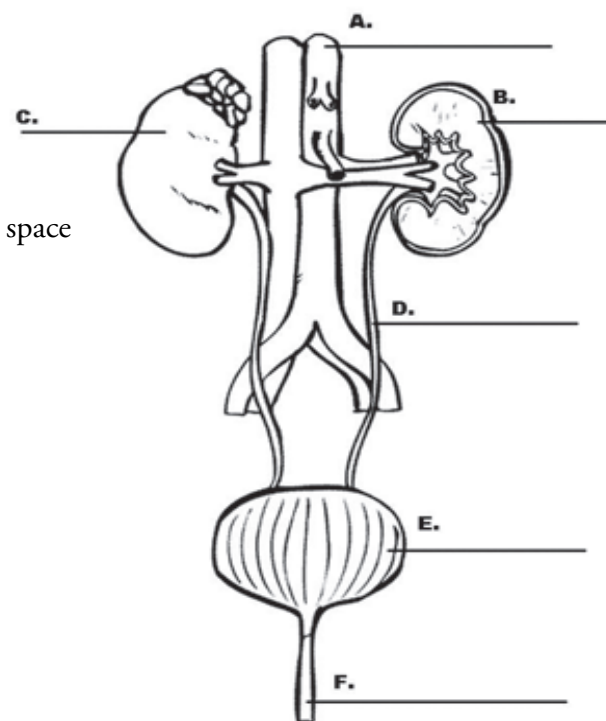
Dave is enrolled in MTI's new Hemodialysis Technician program. The program consists of 50% classroom theory and 50% clinical practicum alongside a mentor in a private dialysis facility. With empathy, compassion and good verbal skills, Dave is embracing this opportunity for a fresh start and is excited about the new direction his career is taking. He says, "I'm very pleased with this program. The instructor is straightforward. I can't wait to get to clinicals. I'll be developing confidence, expertise and understanding. I want to find out the why of everything we do. Change is good."

Explore
IT

Name that Body Part

The urinary tract system helps remove waste material from blood. Identify the parts of the urinary tract system. Write the correct name in the space provided. Choose your answers from this list:

- Aorta**
- Bladder**
- Kidney (2)**
- Ureter**



Answers: A. Aorta, B. Kidney, C. Kidney, D. Ureter, E. Bladder, F. Urethra



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