

Cardiopulmonary



Every breath you take is a reflex, an involuntary movement that sustains life. There are thousands of people who suffer with breathing problems. The Registered Respiratory Therapists at Boundary Community Hospital perform procedures that are both diagnostic and therapeutic involving the lungs and the heart.

Diagnostics

- Evaluate Arterial Blood Gas samples to determine levels of oxygen, carbon dioxide, and other gases in the blood
- Sputum specimens for analysis by our hospital's laboratory
- Measure the capacity of a patient's lungs to determine if there is an impairment.
- Sleep oximetry studies to qualify patients for oxygen therapy in the home.
- Measure airway response to bronchodilator therapy
- Holter Monitor studies for 1-14 day time spans
- Echocardiograms - Complete or limited studies
- 30 day event monitor heart studies

Pulmonary Therapeutic and Supportive Services

Registered Respiratory Care Practitioners, provide initial and ongoing patient assessment, perform diagnostic and therapeutic procedures providing physicians comprehensive heart and lung studies to serve as the basis of treatment.

- **Pulmonary Function Testing** Measures breathing mechanics and aides in diagnosis of various pulmonary disorders
- **Aerosolized Medication Administration** Most common use to treat or prevent bronchospasms
- **Arterial Blood Gas** Analysis of arterial and/or mixed venous blood of pH, oxygenation and CO2 status
- **Carbon Monoxide Testing** Measures Carbon Monoxide in the blood
- **Pulse Oximeter** Monitors oxygen saturation in the blood
- **Oxygen Administration** Treatment to provide extra oxygen to the body.
- **Airway Clearance Techniques** Aids in clearing pulmonary secretions effectively

Each Respiratory Therapist is trained to work with patients of all ages in all areas of the hospital and nursing home. Asthma and COPD Education and information are available upon request, including proper use of inhaled medication, peak flow meter use, breathing exercises, and more. We have informational handouts on various heart and lung subjects. our philosophy is to provide quality care to each individual in a professional and caring manner.

Treatment

- Employing mechanical ventilation for treating patients who cannot breathe adequately on their own
- Monitoring and managing therapy that will help a patient recover lung function
- Administering medication in aerosol form to help alleviate breathing problems and to help prevent respiratory infections
- Monitoring patient for responses to therapy
- Maintaining a patient's artificial airway, one that may be in place to help the patient who cannot breathe through normal means

Cardiopulmonary Department

The Cardiopulmonary Department is a multifaceted department with a focus on the care of patients with abnormalities of the heart, lungs, and circulatory system. They provide services to the hospital's Acute Care unit, Emergency Department, Extended Care Facility as well as outpatient services upon referral from a physician.

Outpatient Appointments available M-Th 7am - 5 pm;
Friday 7am - 4 pm.
(208) 267-3141 ext 4283



Types of Ventilation

BiPAP

- Is a device that assists with breathing.
- The support is administered through a face mask
- Non-invasive ventilation that is used in acute respiratory failure caused by a number of medical conditions most prominently severe exacerbation of COPD
- Also for acute decompensated heart failure



Hi Flow O2 Therapy



- Is a form of respiratory support used in the hospital where O₂, often in conjunction with compressed air and humidification, is delivered to a patient at rates of flow higher than that delivered in traditional O₂ therapy.
- Traditional O₂ therapy is up to 16 LPM while high flow is up to 60 LPM

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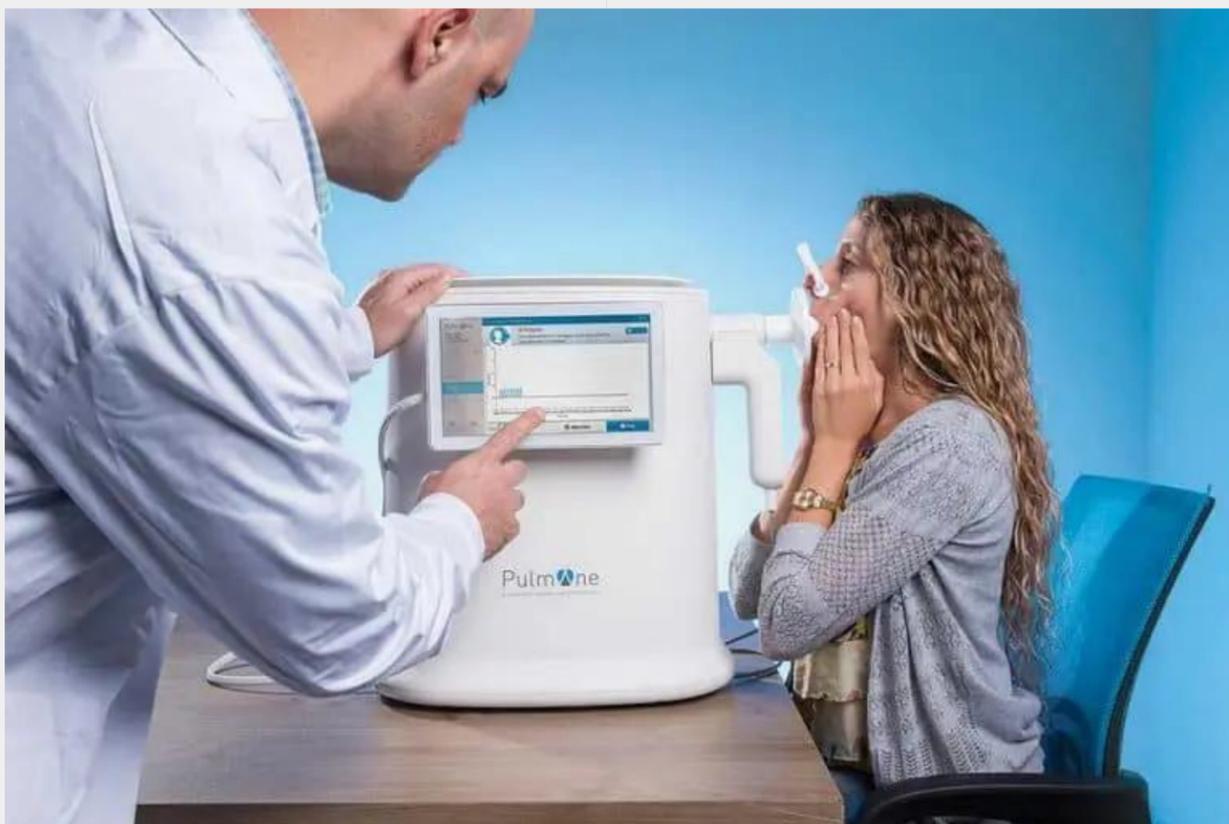
Pulmonary Function Tests (PFTs)

- Doctors carry out pulmonary function tests to check how well a person's lungs work and identify any issues.
- The tests are noninvasive and provide measurements, such as:
 - Lung capacity
 - Volume
 - Gas exchange.
- These measurements may indicate how well the person is breathing or how well the lungs can bring oxygen to the rest of the body.
- Every individual may require a different type of test, and doctors may order one or more pulmonary function tests depending on the underlying issue

SPIROMETRY – Measures the amount of air a person breathes in and out with each breath

LUNG VOLUME TEST – Measures how much air a person's lungs can hold

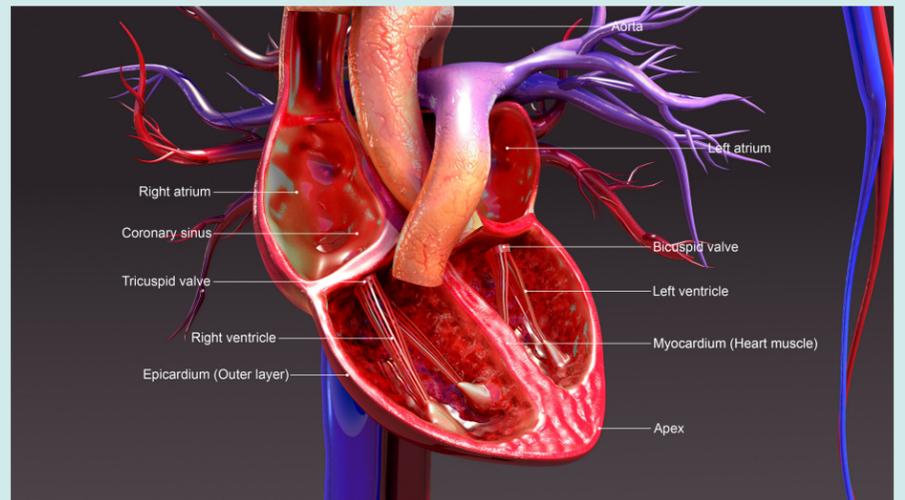
DIFFUSE CAPACITY – Measures how well oxygen passes into a person's blood stream from the lungs



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Echocardiogram

- This is a non-invasive ultrasound that assesses the structure of the heart. An ultrasound uses sound waves to produce an image.
- Why would I Need an Echocardiogram?
 - Your doctor may order an echocardiogram to:
 - Look for heart disease
 - Monitor heart valve disease over time
 - See how well medical or surgical treatments are working



- An echocardiogram checks how your heart's chambers and valves are pumping blood through your heart. An echocardiogram uses electrodes to check your heart rhythm and ultrasound technology to see how blood moves through your heart. An echocardiogram can help your doctor diagnose heart conditions



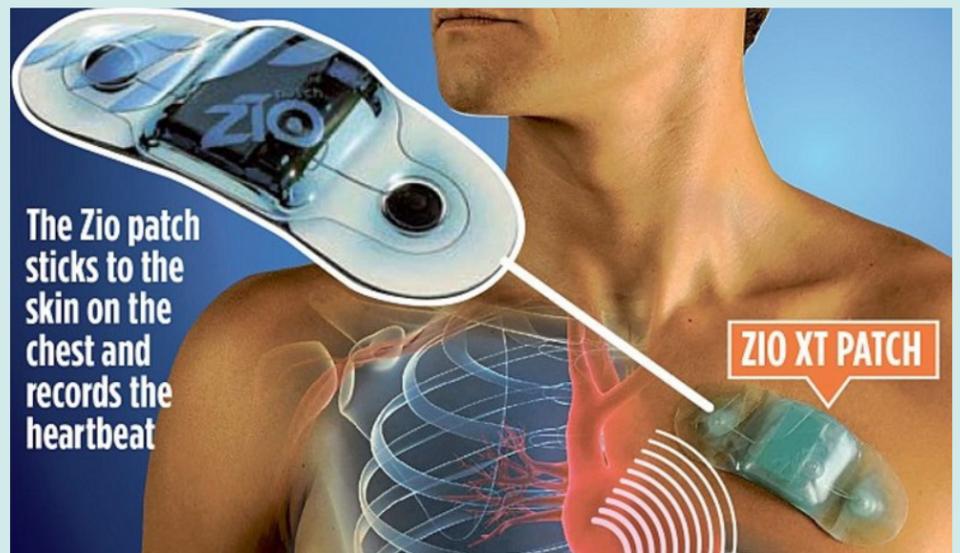
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Heart Monitors to Wear at Home



Holter Monitor

- A portable device that continuously records the rhythm of the heart, typically for 24–48 hours by means of a patch attached to the chest.
- This type of monitor can be worn up to 14 days if necessary.
- Holter Monitors record continuously



30-day Monitor:

- This small portable device that records the electrical activity of the heart for 30 days. It is used to diagnose various abnormal heart rhythms and medical conditions.
- Only record when activated by a button or will automatically start recording if an abnormal rhythm is detected



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