LINCOLN HOSPITAL

*We are your Neighbors for Life*

LINCOLN HOSPITAL & NORTH BASIN MEDICAL CLINICS

# 16-Slice CT technology provides the most accurate images in medicine today

## What is CT and how does it work?

Computed Tomography (CT) scanning is the process of making a series of cross-sectional x-ray images through a portion of the body. During a CT scan, an x-ray beam passes through the body and is recorded by electronic detectors as individual cross-sections or "slices." These detectors send this information to a computer where the thin slices are put together to generate an image of the internal anatomy. The thinner the slices are, the sharper the detail in the resulting image. CT scans are quickly taking the place of more invasive diagnostic techniques such as exploratory surgery or biopsy.

Lincoln Hospital's Philips Brilliance 16-Slice CT scanner is the industry plumbline for CT scanning. This incredible machine opens new doors for assessing some of today's most pressing healthcare conditions such as stroke, heart disease and lung cancer. The Brilliance 16-Slice gives sixteen crystal clear images per rotation, while our previous machine took only one image. This means you receive a much more accurate diagnosis.

CT technology has many advantages. It is painless, non-invasive and accurate. Other major benefits include…

- **Speed** — A full-body trauma scan takes only 30 seconds.
- **Patient comfort** — As the tube is open, there is no anxiety over being in a cramped or coffin-like space. There is also minimal time on the exam table and the room is generally warm as no special cooling system is needed.
- **Low radiation dose** — As technology becomes more advanced, lower doses are needed for high quality images. The amount of radiation required is also decreased due to the quickness of the machine.
- **Highest Quality Images** — The 6-slice scan is very accurate. The ability to scan an entire organ permits evaluation of blood flow, size, shape and location of a tumor or lesion.
- **Multiple tests from one scan** — Because the 16-slice scanner takes so many images and the "slices" of data are so thin, radiology techs can reconstruct information from a single scan to find data for follow-up tests. This saves the patient a second scan or return trip.
- **Less stress** — Because of the speed, children, infants and the elderly need little of no sedation to lie still and breath holding time has also been minimized. All of this is a plus for trauma victims and those in major pain.

## Why choose Lincoln Hospital for your CT scan?

Our Philips Brilliance 16-Slice scanner is the region's most advanced scanner. It is fast, accurate and able to perform more studies with incredible clarity. Our technologists are highly trained, caring and there is little or no wait for an appointment. All CT images at Lincoln Hospital are read by the area's top radiologists at Spokane's Inland Imaging, then results are immediately forwarded to your physician.

Any patient with a physician's order for an UltraSound, MRI, CT Scan, x-Ray, Mammogram or DEXA-Scan can get an appointment at Lincoln Hospital — just call us. Why travel when cutting-edge technology is right here at home?

***WE SEND CT RESULTS TO ANY DOCTOR — ANYWHERE.***
***ASK FOR LINCOLN HOSPITAL RADIOLOGY (509) 725-2975***