



مرکز پزشکی، آموزشی و درمانی کوشر



دانشگاه علوم پزشکی و خدمات بهداشتی درمانی کرمان

## Imaging

The imaging department of Kowsar Hospital possesses the most modern equipment and machines and performs all kinds of common and routine imaging processes for its respectable patients round- the- clock.

This center is equipped with PACS which makes it possible for doctors all around the world to access the images through the internet.

All common and specialized radiographic techniques are performed under the supervision of professional experts and doctors. The spiral CT scanner is capable of performing all CT- guided biopsies and PRT, the sonography and Doppler Ultrasound machines can be used for all type of sonography, biophysical, four-dimensional and three- dimensional Doppler ultrasound, ultrasound under the supervision of radiologists,

performing all sorts of ultrasound- guided biopsies, an MRI machine with the ability to perform all tests are amongst the services and machines this center could provide.

This unit has been active since the start of the hospital and is providing diagnostic and therapeutic services to respectable clients.

Doctors of Department:

Dr. Moradi..... Radiologist

Dr. Zamani.....Radiologist

The patients referred to the above section include patients admitted to different departments of the hospital and outpatient clinics.

Sections Equipment:

The equipment needed for the radiology department is very important for the diagnosis of diseases and it is clear that treatment has an extraordinary effect (economically for the patient and the hospital, and in the community as well as on the social consequences).

Radiological devices:

DDR fixed digital radiology

Portable radiology of two devices

Sonographic devices: GE Expert E8

CT Scan Device for GE

Introduction to Radiology Services

The services provided to these patients include all the simple radiographs and special radiographs, including digestive system, urinary system, genital and fistulography, etc., requiring injection or administration of contrast agents.

Special radiography services include:

1. Radiological examination of the digestive system

A. Barium B.S or swallow barium (esophageal radiography)

B. UGI or esophagus, stomach, duodenum (radiography of esophagus, stomach, duodenum)

C. Transit (specialized radiology from the small intestine)

D. Barium enema or B.E (specialized radiography from the large intestine)

2. Radiological examination of a urinary system

A. IVP Radiography of the kidneys-ureter and bladder

B. VCUG Specialized urethra and bladder radiography

C. Retrograde Urethrography

D. Antegrade ureterography

It is worth mentioning that the radiology section of the specialized and specialized Kowsar hospital has been removed from the dark room system and is equipped with a digital DDR system. Working with the DR system has many advantages over the manual darkroom, which are referred to a number of them.

The process of film processing can be performed in the open space.

The archive of films is done digitally and software

The likelihood of film deterioration and blackening is minimized

Patient radiation is reduced due to system software processing and is very important.

Introduction to ultrasound services:

In ultrasonography, it is also suggested that, in addition to ultrasonography, all internal organs - soft tissue and deep tissue soft tissue (Ovary-Testis) -thyroid and parathyroid glands, it is necessary to perform color Doppler of the kidneys.

Understanding CT scan Service:

The CT scan of our hospital is equipped with a multislice CT or spiral CT that can perform brain, lung, abdominal and pelvic CT scans with and without contrast injections and HRCT at 2 mm intervals for more accurate examination and CT Angiography is a three dimensional (3D) scan of the kidneys that receives the lowest dose due to the spirality of the patient's device.