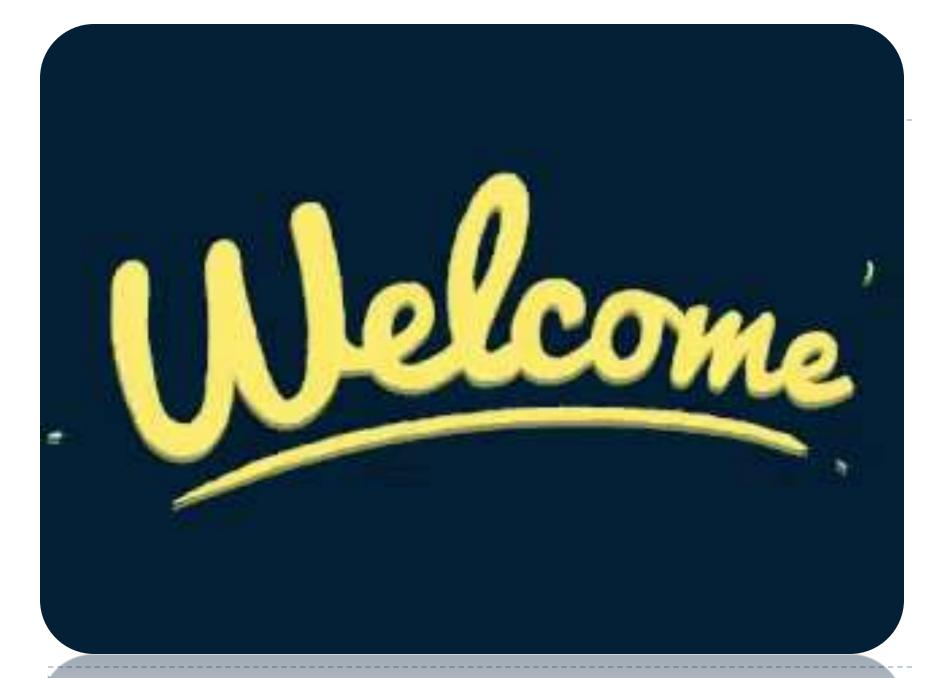


العلقة الأولى قبل البداية





د. أحمد مختار حامد ابودهب

مدرس بقسم الاشعة التشخيصية - كلية الطب - جامعة سوهاج مدرب بالمجلس الاعلى للجامعات المصرية استشاري الاشعة التشخيصية بمستشفى سوهاج العسكري و عيادات هيئة الشرطة محاضر بالاكاديمية الطبية الافتراضية السعودية (Virtual Medical Academy)

مدير العيادات الجامعيه المجمعه بمدينه سوهاج الجديده (سابقا)

مدير العيادات الجامعية المجمعة بمدينة سوهاج الجديدة (سابقا)

و الان

تفضل بتقديم نفسك



الجامعة

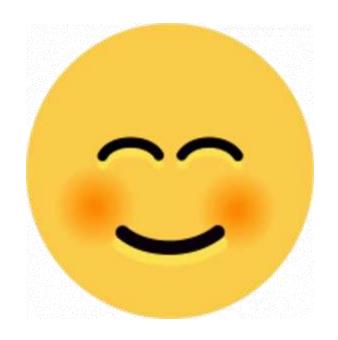


عيد احترام



الخيار لك في طريقة المعاملة معك !!



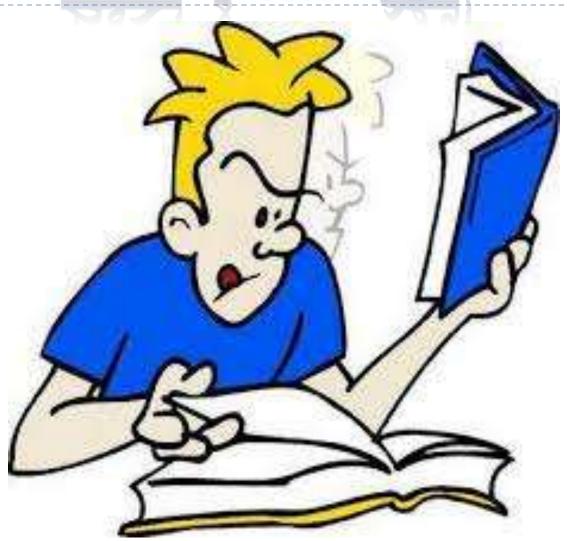




▶ Don't Panicall things are simple & easy with understanding



افهم لا تحفظ





التعليم مسؤلية المؤسسة التعليمية

و لكن الاحتراف

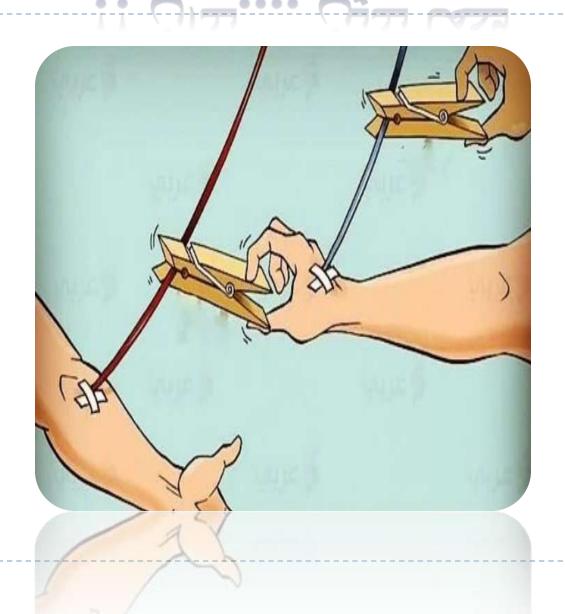
مسؤلیتك انت



حافظ على سلامة و عرض مرضاك



فكما تدينتدان !!



لا تحسب { العلم }

ينفع وحده ما لم يُتوّج بـ { أخلاق }



كلاهما وحده لا يكفي



ثق في نفسك و افخر بمهنتك و اعمل على التقدم فيها





مؤسسة مستشفى 57357 سرطــان الأطفـــال Children's Cancer Hospital Foundation



المواد الدراسية التخصصية

The WHO manual of diagnostic imaging

RADIOGRAPHIC TECHNIQUE AND PROJECTIONS

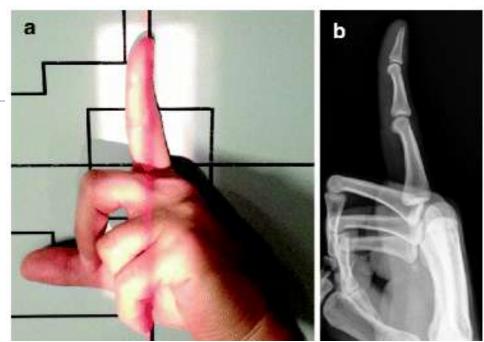
CLARK'S POSITIONING IN RADIOGRAPHY



A STEWART WHITLEY • CHARLES SLOANE • POCKETI HANDBOOK FOR ADRIAN D. MOORE • CHRISSIE RADIOGRAPHERS



CHARLES SLOANE • KEN HOLMES
CRAIG ANDERSON • A STEWART WHITLEY









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ARK ROOM





ML Training®

X-Ray Film Processing





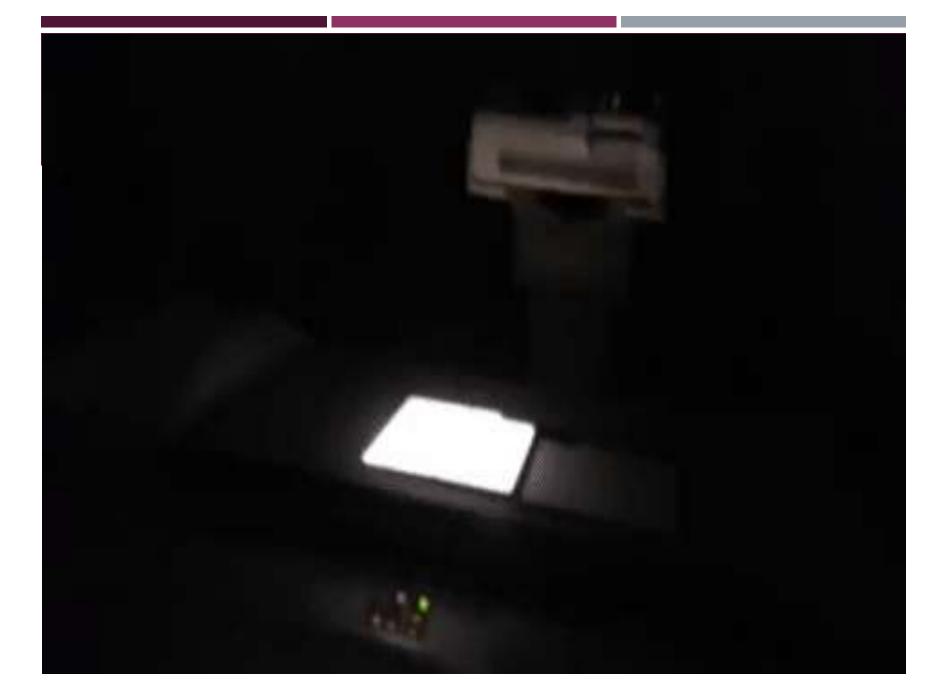




D

X – RAY





BY

•William Roentgen / 1895





X-Ray

NOBLE PRIZE





ENERGY



lonizing radiation

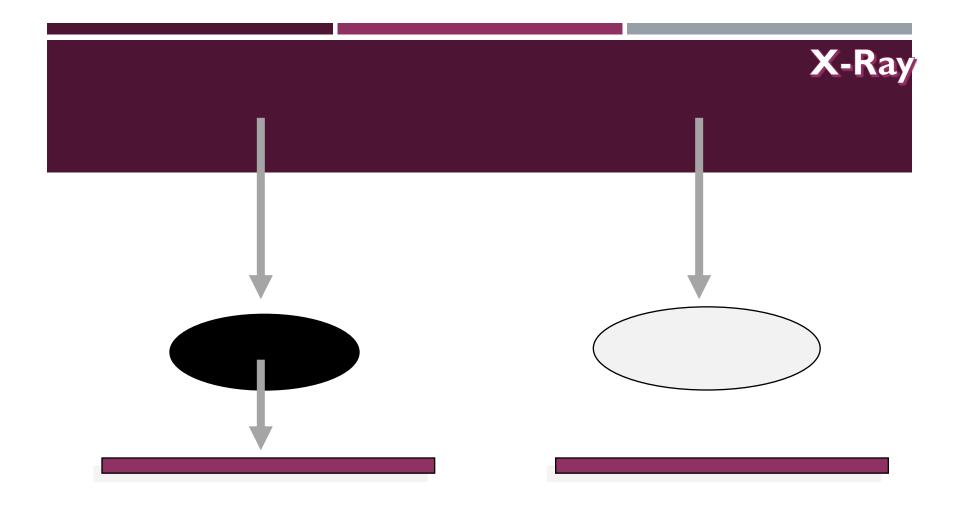


KEY WORD.....OPACITY



Radio-opaque / Radio-lucent?





Radio-lucent

Radio-opaque







metal target cathode

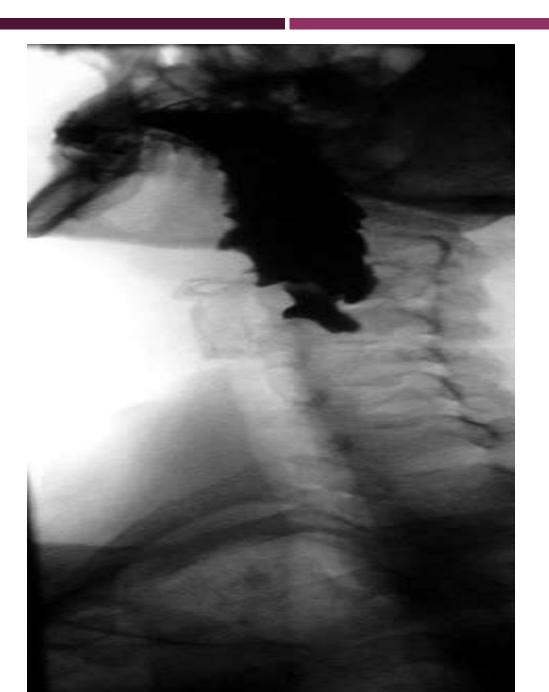




Fluoroscopy







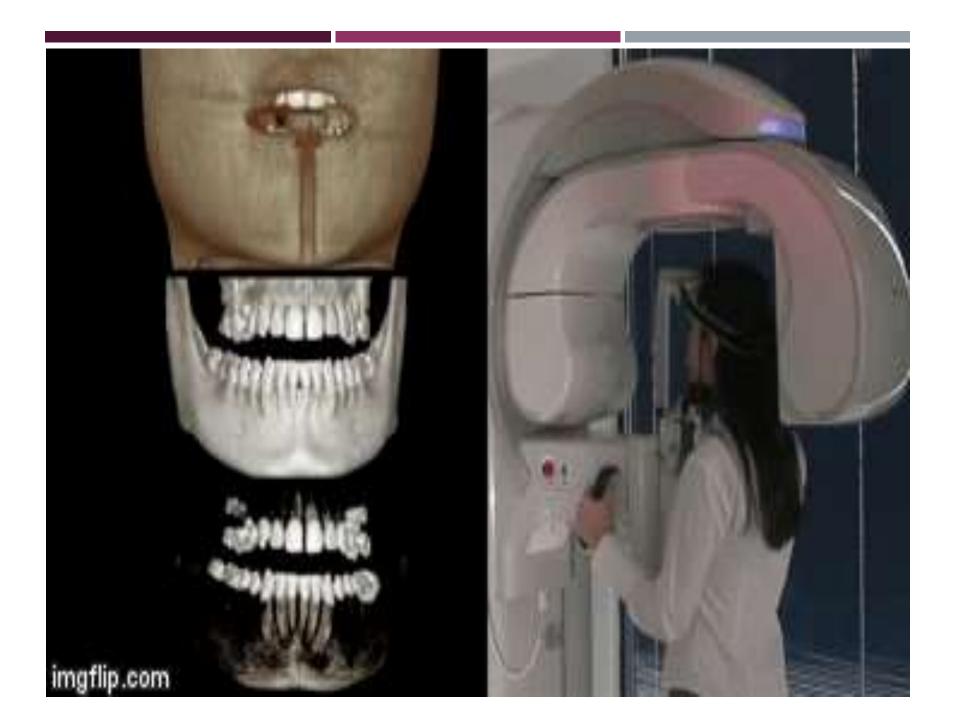
FLOUROSCOPY is used mainly With contrast "Barium"

"Barium Swallow"





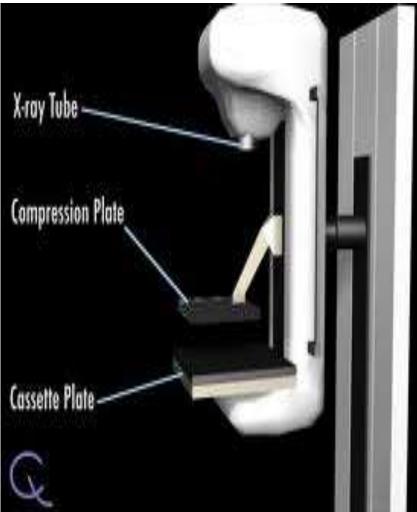






MAMMOGRAPHY





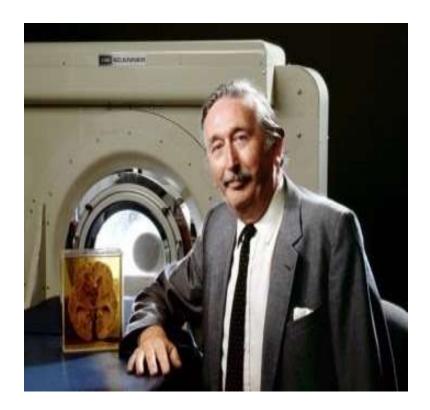
Computerized Tomography



MakeAGIF.com

BY

•Dr. G. N. Hounsfield in / 1971



Sir Godfrey Hounsfield 1919 - 2004

CT

WON NOBLE PRIZE

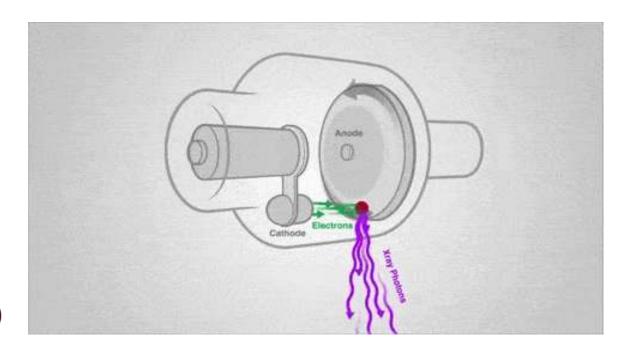


CT

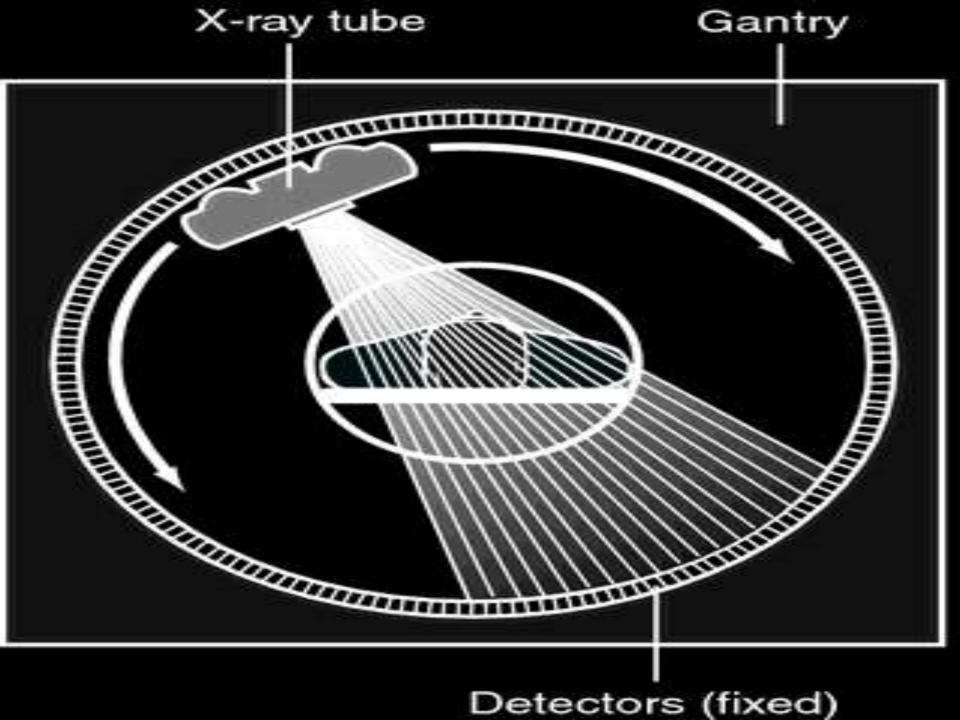
ENERGY

Xray

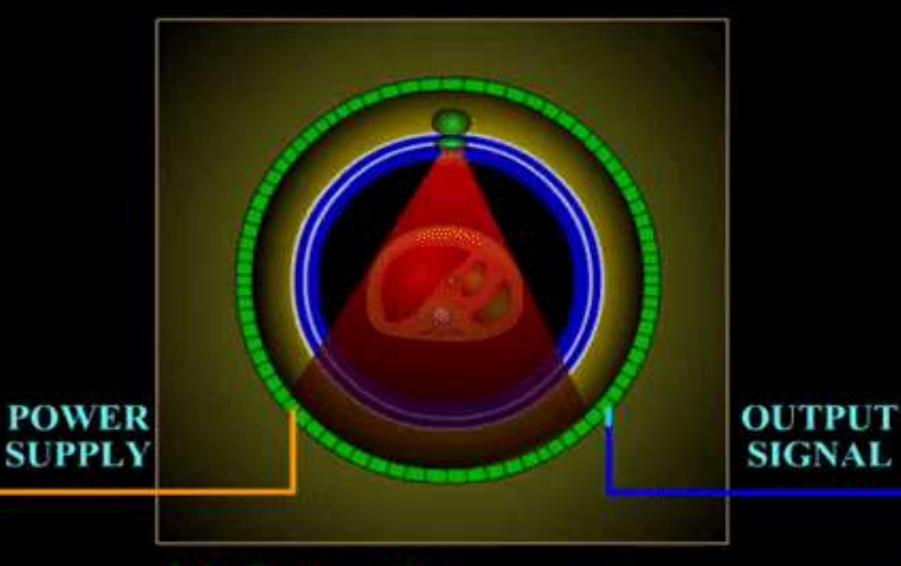
lonizing Radiatio











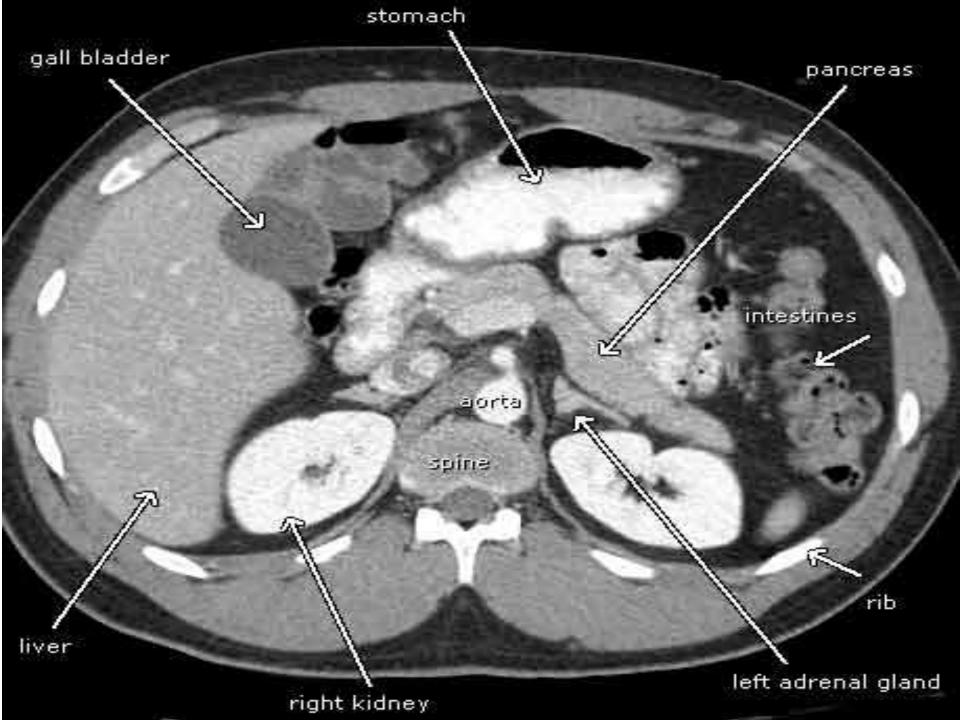
4th Generation

M. Mongkolsuk

11/04/2004







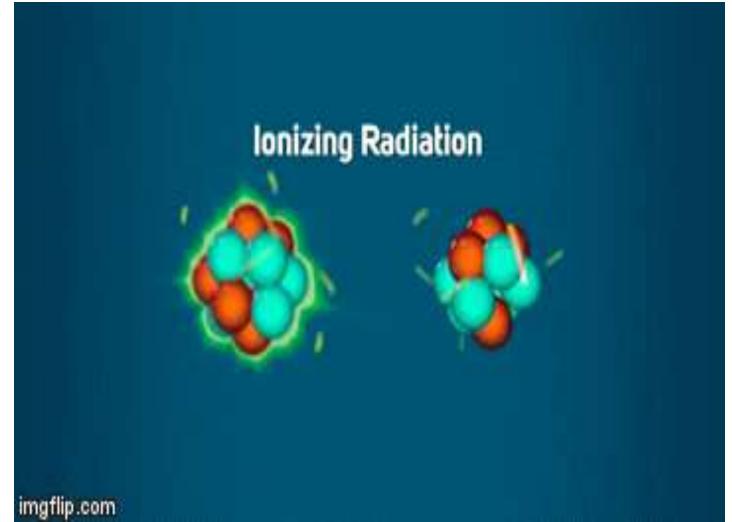




5 cm

A L







Xray



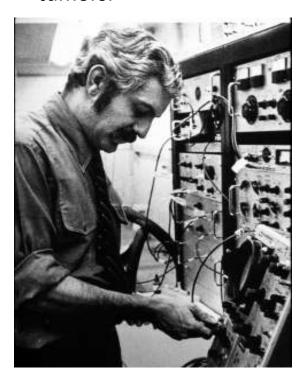
4

BASICS OF Magnetic Resonance Imaging



INVENTORS

- 1946 Felix Bloch and Edward Purcell → magnetic resonance phenomena.
- until the 1970s MRI was being used for chemical and physical analysis.
- 1971 Raymond Damadian showed that nuclear magnetic relaxation times of tissues and tumors.

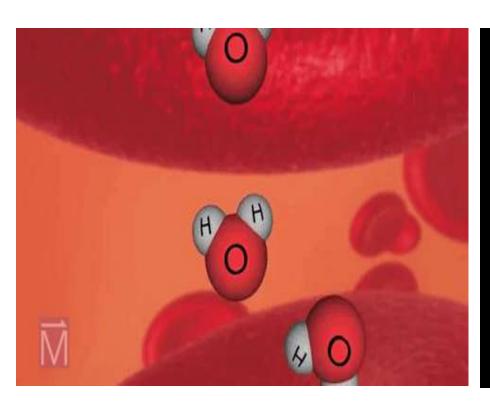


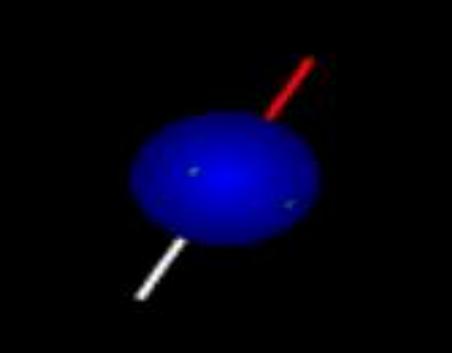


MRI

IDEA

Magnetic Resonance Phenomena





MRI

NOBLE PRIZE

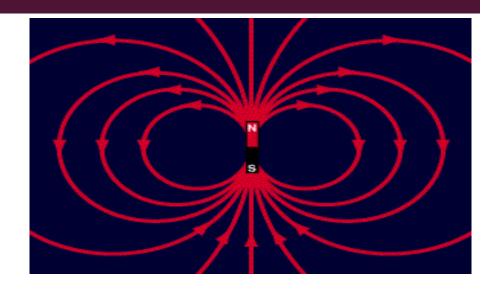
1952



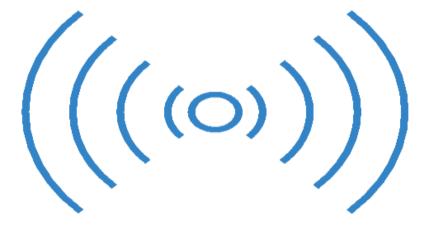
MRI

ENERGY

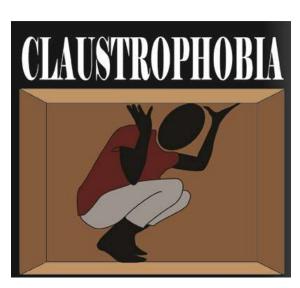
STRONG MAGNETIC FIELD



RADIO FREQUENCY

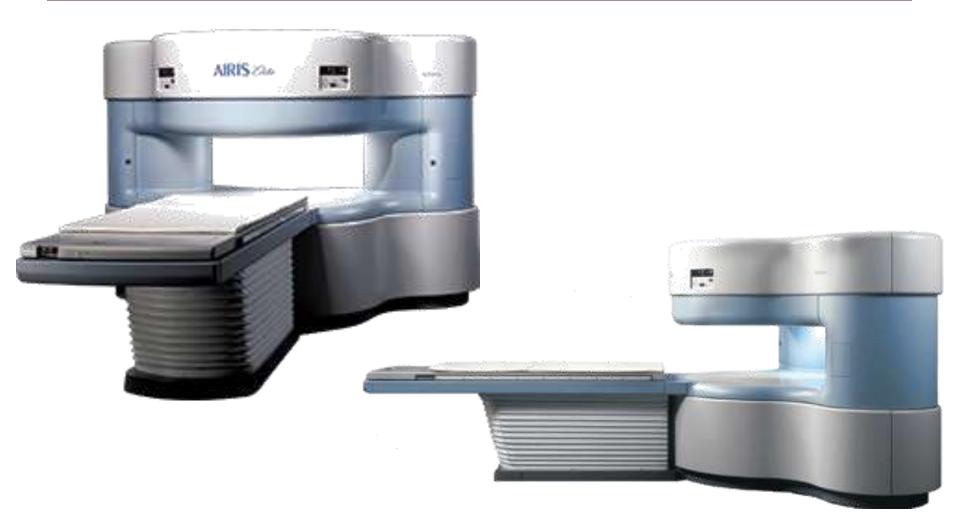


CLOSED MRI





OPEN MRI





EXTREMITY MRI





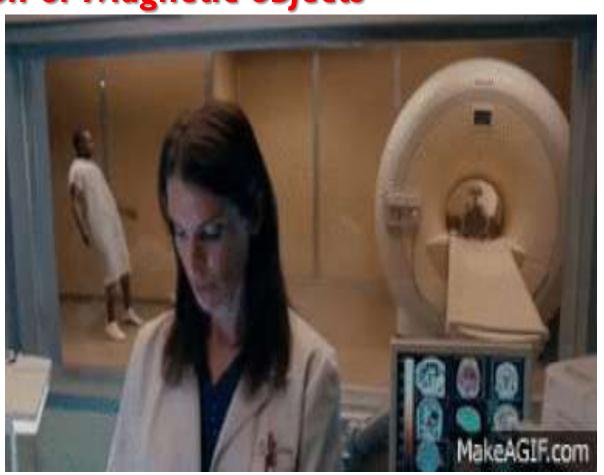
DYNAMIC MRI



Contraindications Of MRI

No Iron or Magnetic objects

- Iron Processes.
- Iron F.B.
- Firearm
- Pacemaker.
- Vascular metallic clips.



ADANGER



STRONG MAGNETIC FIELD

Magnet is always on.

Notify the MRI technologist or radiologist if:

- 1) You have any metallic, electronic or magnetic implants or devices in your body
- 2) You have been exposed to metal shavings from operations like grinding or sawing as part of your occupation
- 3) You have metal embedded in your body due to injury
- 4) You have any object which may contain metal or metallic parts (cell phones, scissors, watches, hearing aids, tools or keys)

Failure to follow these instructions could result in serious injury or death.

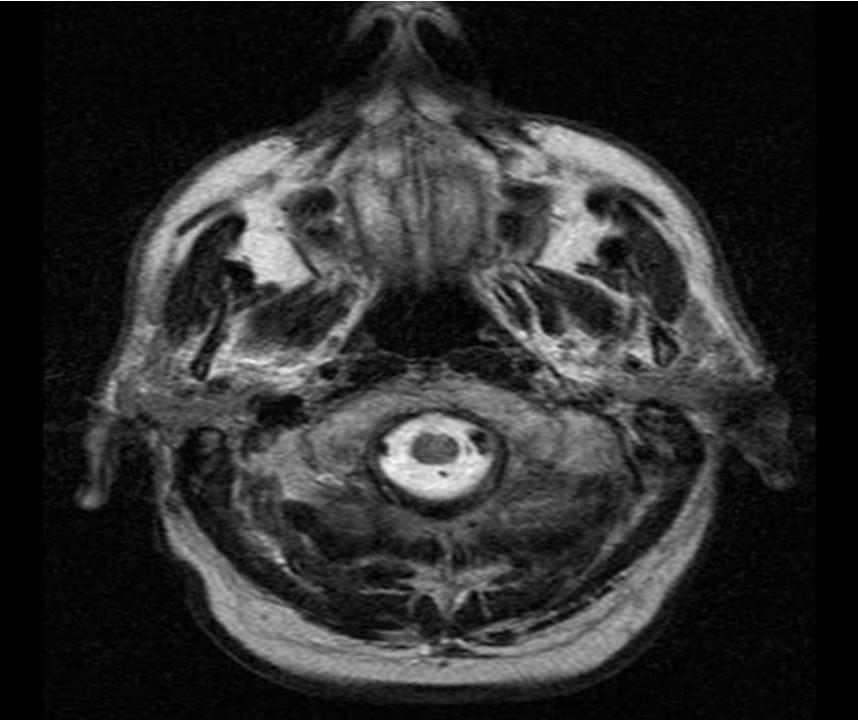


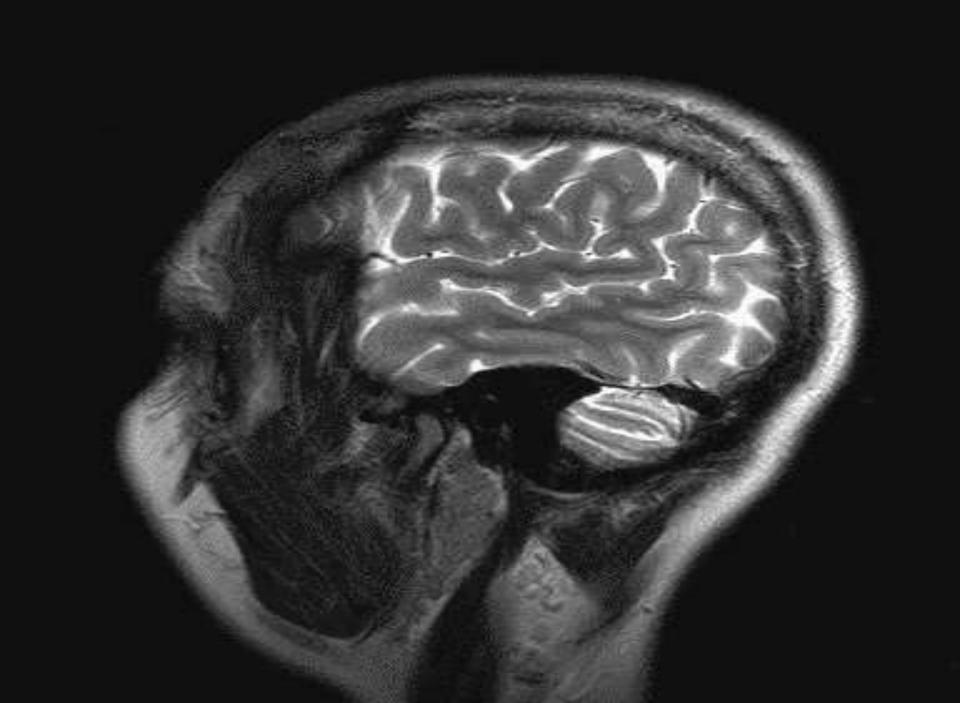












NOW ... AREYOU READY?



