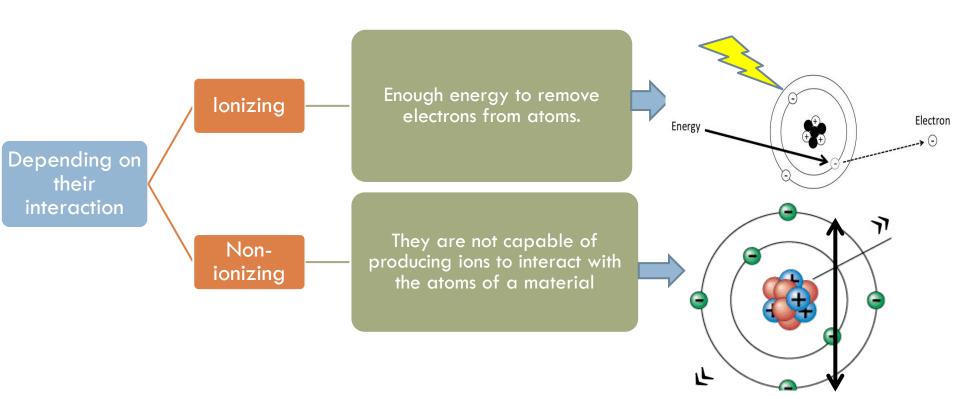
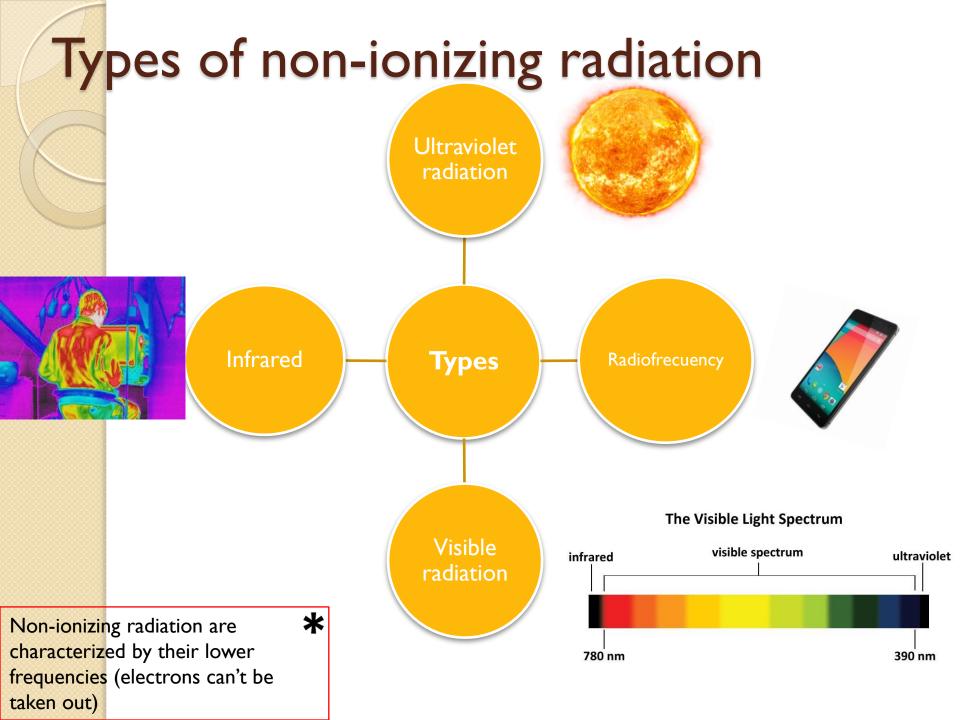


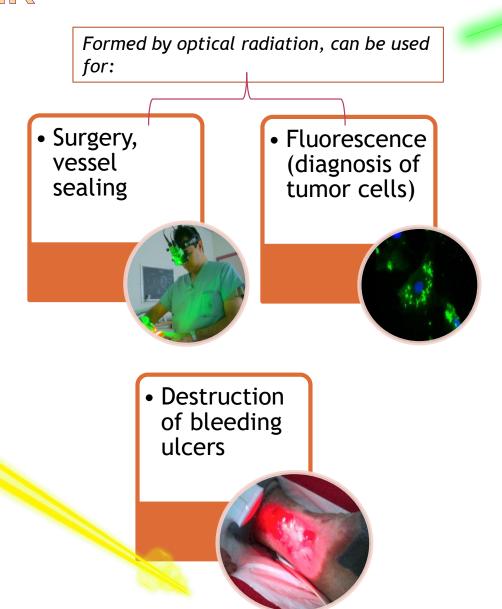
What is radiation?

 Energy propagation through the means, whether in the form of electromagnetic waves, or shaped corpuscles subatomic endowed with great speed.





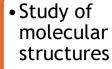
MEDICAL APPLICATIONS LASER

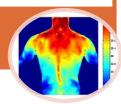


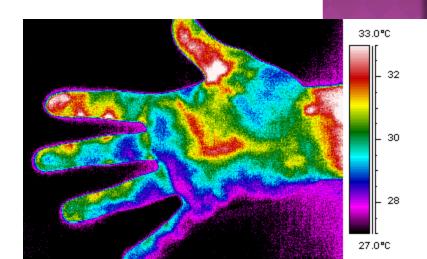
MEDICAL APPLICATIONS INFRARED

wavelength is between 0.8 μ (10-6 m) and 1000 μ (1 nm), they can be used for:

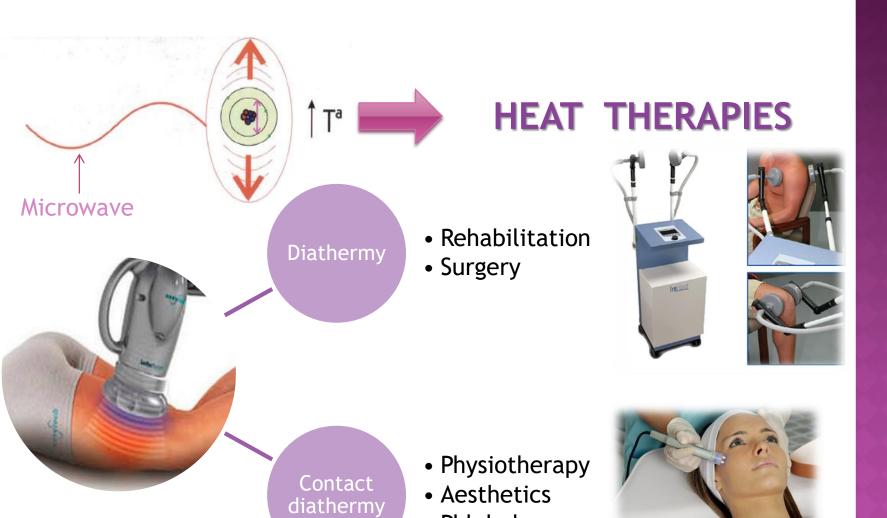
 Thermography (graphic recording of heat from the body)





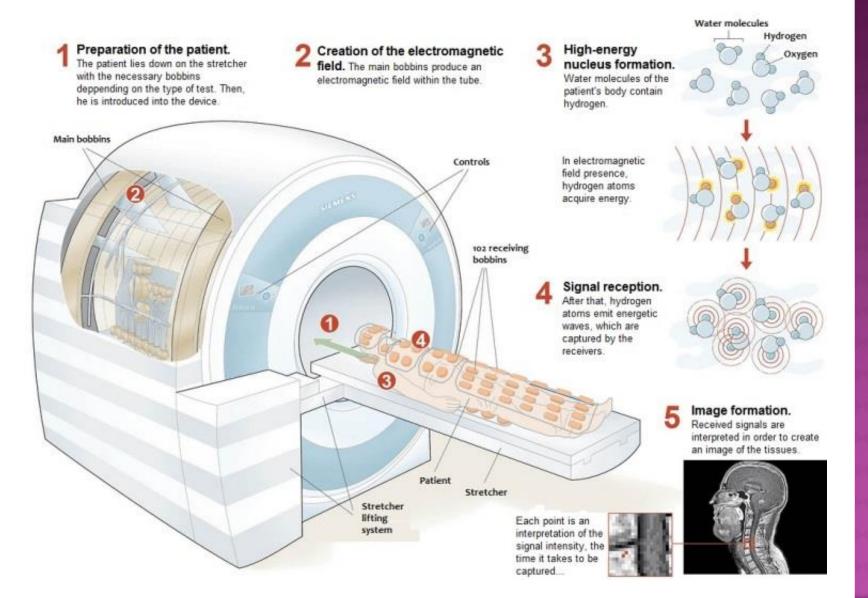


MICROWAVES MEDICAL USES



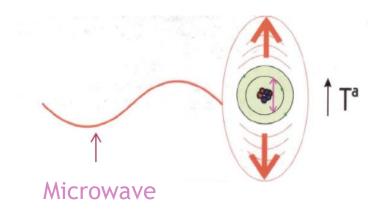
• Phlebology

OBTAINING IMAGES BY MAGNETIC RESONANCE



HEALTH RISKS

• Thermical effects:



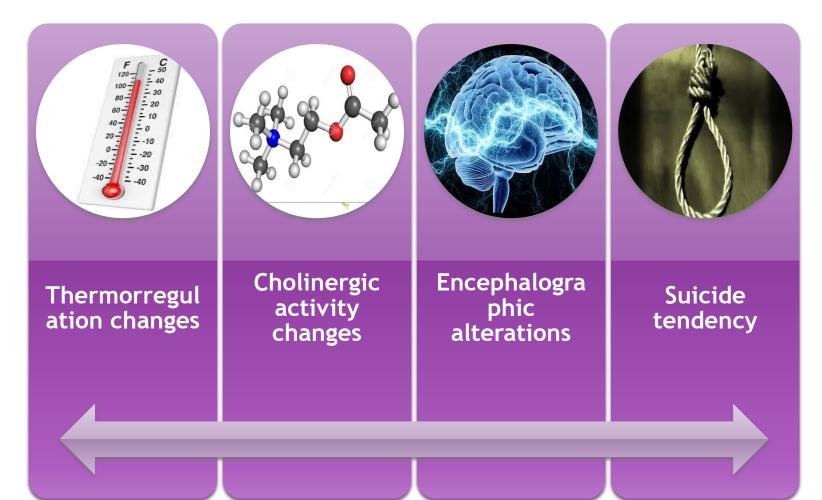
Prone organs:

- Crystalline lens
- Vitreous humour
- Glands
- Other organs senstive to temperature increase.

 Non-thermical effects: electroancephalogram alterations, cholinergic activity changes. There is scientific controversy!

HEALTH RISKS

Neuropsychiatric effects



HEALTH RISKS

- Immune system: alergies, immunodepression, hematologic and leukocyte alterations...
- Genetic alterations: It is thought that electromagnetic waves don't have mutagenic effects when exposure is low-medium.
- Cardiovascular: myocardial electrical conduction problems, repolarization alterations, myocardial infarction...

CONCLUSION

Non-ionizing radiation...

- Belongs to low-frequency radiation.
- It has several applications in the medical field.
- Many possible risks have been described in relation to this type of radiation, but the WHO admits that all the epidemiological studies made until now (in this field) are insufficient to test the health risks associated to this radiation.

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