

Some paper topics – these are by no means all inclusive. There are many medical techniques and applications of these techniques to the study of the body, which ends in an imaging method. The idea is to find some medical topic that interests you and relate that topic to the study of imaging physics.

Arthroscopic surgery of the shoulder, knee, or elbow

Bronchoscopic surgery

Laryngoscopic surgery

Laser Lithotripsy

Laser angioplasty

Photodynamic therapy

LASIK eye surgery

LASIK eye surgery in children

Laser photocoagulation for diabetic retinopathy

Laser Acupuncture

Lasers in dentistry

Lasers in dermatology – cancer treatments

Lasers in dermatology – tattoo removal

Endometriosis, laser ablation and laparoscopic surgery

Photovaporization and the spread of viruses in the body

Prenatal ultrasound screening

Echo Planar Imaging

Echocardiography

Diagnostic ultrasound

X rays and mammography

Nuclear medicine – pick an aspect

PET and the body – pick an aspect

Magnetic resonance imaging – pick an aspect

fMRI

Ionizing radiation therapy

Accelerators in nuclear medicine

Magnetic resonance angiography

Immunotherapy