

## Patient Preparation and Care

Absolute Neutrophil Count refers to the total number of neutrophils in the blood, which is a type of white blood cell that helps fight infection, ANC is crucial in patient preparation and care.

Acquired Immune Deficiency Syndrome is a condition where the body's immune system is weakened, making it vulnerable to various infections and diseases, AIDS patients require special care and attention in nuclear medicine management.

Acute Radiation Syndrome occurs when a person is exposed to a high dose of radiation in a short period, causing damage to the bone marrow, lungs, and gastrointestinal system, ARS is a serious condition that requires immediate medical attention.

Administration of Radioactive Materials involves the use of radioactive substances to diagnose or treat diseases, ARM requires proper handling and disposal to minimize radiation exposure.

Adverse Reaction is an undesirable or harmful effect of a medication or treatment, AR can occur during nuclear medicine procedures and must be reported and addressed promptly.

Albumin is a type of protein found in blood plasma, Alb is used to bind and transport various substances, including radioactive tracers.

Alpha Particle is a type of radiation that consists of two protons and two neutrons,  $\alpha$  particles are commonly used in nuclear medicine for therapeutic purposes.

American Society of Nuclear Cardiology is a professional organization that promotes the use of nuclear cardiology in the diagnosis and treatment of cardiovascular diseases, ASNC provides guidelines and standards for nuclear cardiology procedures.

Anemia is a condition characterized by a lack of red blood cells or hemoglobin in the blood, Anemia can be diagnosed using nuclear medicine techniques such as bone marrow imaging.

Angiogenesis is the process of forming new blood vessels, Angio is essential for tumor growth and can be targeted using nuclear medicine techniques.

Antibody is a type of protein that recognizes and binds to specific antigens, Ab is used in nuclear medicine to target and diagnose diseases.

Apoptosis is the process of programmed cell death, Apo is a mechanism by which cells can die and be removed from the body.

Artifact is an abnormal or misleading image or signal that can occur during nuclear medicine procedures, Art can be caused by various factors such as patient movement or equipment malfunction.

Atomic Number is the number of protons in the nucleus of an atom, Z is used to identify the element and determine its chemical properties.

Attenuation is the reduction in intensity of radiation as it passes through a material, Attn is an important factor in nuclear medicine imaging.

Auger Electron is a type of radiation that consists of low-energy electrons, Ae is emitted by atoms that have been ionized by radiation.

Automated Blood Sampler is a device that automatically collects blood samples from patients, ABS is used in nuclear medicine to monitor patient response to treatment.

Barcode is a series of lines and spaces that can be read by a computer, BC is used to identify patients and track medical records.

Becquerel is the unit of measurement for radioactivity, Bq is defined as the number of nuclear decays per second.

Beta Particle is a type of radiation that consists of high-energy electrons,  $\beta$  particles are commonly used in nuclear medicine for diagnostic and therapeutic purposes.

Binding Affinity is the strength with which a molecule binds to a specific site or receptor, BA is an important factor in nuclear medicine imaging.

Bioavailability is the extent to which a substance is absorbed and becomes available to the body, BA is an important factor in nuclear medicine therapy.

Biological Half-Life is the time it takes for the body to eliminate half of a substance, BHL is an important factor in nuclear medicine therapy.

Blood-Brain Barrier is a specialized barrier that separates the brain from the bloodstream, BBB is an important factor in nuclear medicine imaging and therapy.

Bone Marrow is the spongy tissue inside bones that produces blood cells, BM is an important factor in nuclear medicine imaging and therapy.

Bone Scan is a type of nuclear medicine procedure that uses radioactive tracers to image the bones, BS is used to diagnose and monitor various bone diseases.

Bremsstrahlung Radiation is a type of radiation that consists of high-energy photons, BR is produced when high-energy electrons interact with a material.

Cancer is a type of disease characterized by uncontrolled cell growth, Cancer is a major area of focus in nuclear medicine.

Carcinoembryonic Antigen is a type of protein that is produced by cancer cells, CEA is used as a tumor marker in nuclear medicine imaging.

Cardiac Output is the amount of blood pumped by the heart per minute, CO is an important factor in nuclear medicine imaging and therapy.

Catheter is a thin tube that is inserted into a blood vessel or other body cavity, Cath is used to administer medications or radioactive tracers.

Cell Proliferation is the process of cell growth and division, CP is an important factor in nuclear medicine imaging and therapy.

Central Nervous System is the brain and spinal cord, CNS is an important area of focus in nuclear medicine imaging and therapy.

Cerebral Blood Flow is the amount of blood flowing through the brain, CBF is an important factor in nuclear medicine imaging and therapy.

Chemotherapy is a type of cancer treatment that uses medications to kill cancer cells, CT is often used in combination with nuclear medicine therapy.

Chromatography is a laboratory technique that separates and identifies the components of a mixture, Chrom is used in nuclear medicine to analyze biological samples.

Clearance is the rate at which a substance is removed from the body, Cl is an important factor in nuclear medicine therapy.

Cobalt-60 is a type of radioactive isotope that is commonly used in nuclear medicine, Co-60 is used for therapeutic purposes such as cancer treatment.

Collimator is a device that focuses and directs radiation, Coll is used in nuclear medicine imaging to improve image quality.

Colonoscopy is a medical procedure that uses a flexible tube to visualize the colon, Colon is used to diagnose and monitor various colon diseases.

Computed Tomography is a type of medical imaging that uses X-rays to produce cross-sectional images, CT is often used in combination with nuclear medicine imaging.

Coronary Artery Disease is a type of heart disease that affects the coronary arteries, CAD is a major area of focus in nuclear medicine imaging and therapy.

Cyst is a type of abnormal sac or pocket that can form in various parts of the body, Cyst can be imaged using nuclear medicine techniques such as positron emission tomography.

Cytokine is a type of protein that is produced by immune cells, Cyto is used to stimulate an immune response and is an important factor in nuclear medicine therapy.

Data Acquisition is the process of collecting and storing data, DA is an important factor in nuclear medicine imaging and therapy.

Deoxyribonucleic Acid is the molecule that contains the genetic instructions for the development and function of an organism, DNA is an important factor in nuclear medicine imaging and therapy.

Diagnostic Imaging is the use of medical imaging to diagnose and monitor various diseases, DI is a major area of focus in nuclear medicine.

Differential Count is a type of laboratory test that measures the different types of white blood cells in the blood, DC is used to diagnose and monitor various blood diseases.

Diffusion is the process by which particles move from an area of high concentration to an area of low concentration, D is an important factor in nuclear medicine imaging and therapy.

Digital Imaging is the use of digital technology to produce and store medical images, DI is a major area of focus in nuclear medicine.

Dose is the amount of radiation or medication that is administered to a patient, D is an important factor in nuclear medicine therapy.

Dosimetry is the measurement and calculation of the dose of radiation or medication that is administered to a patient, Dos is an important factor in nuclear medicine therapy.

Double-Stranded Deoxyribonucleic Acid is a type of DNA that consists of two complementary strands, dsDNA is an important factor in nuclear medicine imaging and therapy.

Dual-Energy Computed Tomography is a type of medical imaging that uses X-rays to produce cross-sectional images, DECT is often used in combination with nuclear medicine imaging.

Dual-Photon Emission Computed Tomography is a type of nuclear medicine imaging that uses two photons to produce cross-sectional images, DPECT is used to diagnose and monitor various diseases.

Effective Dose is the dose of radiation that is equivalent to the dose that would be received by the whole body, ED is an important factor in nuclear medicine imaging and therapy.

Electromagnetic Radiation is a type of radiation that consists of electromagnetic waves, EMR is used in nuclear medicine imaging and therapy.

Electron Capture is a type of radioactive decay in which an electron is captured by the nucleus, EC is an important factor in nuclear medicine imaging and therapy.

Emphysema is a type of lung disease characterized by damage to the air sacs, Emph can be diagnosed using nuclear medicine techniques such as lung perfusion imaging.

Endocrine System is the system of glands and organs that produce hormones, ES is an important area of focus in nuclear medicine imaging and therapy.

Energy Resolution is the ability of a detector to distinguish between different energies of radiation, ER is an important factor in nuclear medicine imaging.

Enzyme is a type of protein that catalyzes chemical reactions, Enz is used in nuclear medicine imaging and therapy.

Erythrocyte is a type of red blood cell, RBC is used to transport oxygen and carbon dioxide throughout the body.

Excretion is the process by which the body eliminates waste products, Ex is an important factor in nuclear medicine imaging and therapy.

Extracellular Fluid is the fluid that surrounds cells and tissues, ECF is an important factor in nuclear medicine imaging and therapy.

False Negative is a type of test result that incorrectly indicates the absence of a disease or condition, FN is an important factor in nuclear medicine imaging and therapy.

False Positive is a type of test result that incorrectly indicates the presence of a disease or condition, FP is an important factor in nuclear medicine imaging and therapy.

Federal Drug Administration is the regulatory agency responsible for overseeing the development and use of medications, FDA is an important factor in nuclear medicine therapy.

Fibrinogen is a type of protein that is produced by the liver and helps to form blood clots, Fib is used in nuclear medicine imaging and therapy.

Fluorodeoxyglucose is a type of radioactive tracer that is used in positron emission tomography, FDG is used to diagnose and monitor various diseases.

Fluoroscopy is a type of medical imaging that uses X-rays to produce real-time images, Fluoro is often used in combination with nuclear medicine imaging.

Fractional Uptake is the percentage of a radioactive tracer that is taken up by a particular organ or tissue, FU is an important factor in nuclear medicine imaging and therapy.

Functional Imaging is a type of medical imaging that measures the function of organs and tissues, FI is a major area of focus in nuclear medicine.

Gallium-67 is a type of radioactive isotope that is commonly used in nuclear medicine, Ga-67 is used to diagnose and monitor various diseases.

Gamma Camera is a type of detector that is used to image gamma radiation, GC is an important factor in nuclear medicine imaging.

Gamma Ray is a type of high-energy radiation that is emitted by radioactive isotopes,  $\gamma$  rays are commonly used in nuclear medicine imaging and therapy.

Gastrointestinal System is the system of organs and tissues that digests and absorbs food, GIS is an important area of focus in nuclear medicine imaging and therapy.

Gene Expression is the process by which genes are turned on or off, GE is an important factor in nuclear medicine imaging and therapy.

Genetic Engineering is the manipulation of genes to produce desired traits, GE is an important factor in nuclear medicine imaging and therapy.

Glucose is a type of sugar that is used by cells for energy, Gluc is an important factor in nuclear medicine imaging and therapy.

Glycoprotein is a type of protein that contains carbohydrate molecules, Gly is used in nuclear medicine imaging and therapy.

Graft is a type of tissue that is transplanted from one part of the body to another, Graft can be imaged using nuclear medicine techniques such as positron emission tomography.

Half-Life is the time it takes for the radioactivity of a substance to decrease by half, HL is an important factor in nuclear medicine imaging and therapy.

Hematocrit is the percentage of red blood cells in the blood, Hct is an important factor in nuclear medicine imaging and therapy.

Hemoglobin is a type of protein that carries oxygen in the blood, Hb is an important factor in nuclear medicine imaging and therapy.

Hepatic System is the system of organs and tissues that filter and detoxify the blood, HS is an important area of focus in nuclear medicine imaging and therapy.

Histopathology is the study of the microscopic structure of tissues, HP is an important factor in nuclear medicine imaging and therapy.

Hormone is a type of chemical messenger that is produced by glands and organs, Horm is an important factor in nuclear medicine imaging and therapy.

Hybrid Imaging is a type of medical imaging that combines different modalities, HI is a major area of focus in nuclear medicine.

Hyperthyroidism is a type of disease characterized by an overactive thyroid gland, Hyper can be diagnosed and treated using nuclear medicine techniques.

Hypothyroidism is a type of disease characterized by an underactive thyroid gland, Hypo can be diagnosed and treated using nuclear medicine techniques.

Image Reconstruction is the process of creating images from raw data, IR is an important factor in nuclear medicine imaging.

Immune System is the system of cells and tissues that defend the body against infection and disease, IS is an important area of focus in nuclear medicine imaging and therapy.

Infection is a type of disease caused by the invasion of microorganisms, Infect can be diagnosed and treated using nuclear medicine techniques.

Inflammation is a type of response to tissue damage or infection, Inflamm can be imaged using nuclear medicine techniques such as positron emission tomography.

Informed Consent is the process of obtaining permission from a patient to perform a medical procedure, IC is an important factor in nuclear medicine imaging and therapy.

Inhalation is the process of breathing in a substance, Inh is an important factor in nuclear medicine imaging and therapy.

Insulin is a type of hormone that regulates blood sugar levels, Ins is an important factor in nuclear medicine imaging and therapy.

Interventional Radiology is a type of medical procedure that uses imaging to guide minimally invasive interventions, IR is an important area of focus in nuclear medicine.

Intravenous is a type of injection that is given directly into a vein, IV is an important factor in nuclear medicine imaging and therapy.

Ionizing Radiation is a type of radiation that has enough energy to remove electrons from atoms, IR is an important factor in nuclear medicine imaging and therapy.

Isotope is a type of atom that has the same number of protons but a different number of neutrons, Iso is an important factor in nuclear medicine imaging and therapy.

Kilovoltage is a unit of measurement for the energy of X-rays, kV is an important factor in nuclear medicine imaging.

Labelling is the process of attaching a radioactive tracer to a molecule or compound, Lab is an important factor in nuclear medicine imaging and therapy.

Leukocyte is a type of white blood cell, WBC is an important factor in nuclear medicine imaging and therapy.

Ligand is a type of molecule that binds to a specific receptor or site, Lig is an important factor in nuclear medicine imaging and therapy.

Linear Energy Transfer is the amount of energy that is transferred to a material as radiation passes through, LET is an important factor in nuclear medicine imaging and therapy.

Liquid Scintillation is a type of detector that measures the energy of radiation, LS is an important factor in nuclear medicine imaging.

Lung Perfusion is the process by which blood flows through the lungs, LP can be imaged using nuclear medicine techniques such as ventilation-perfusion imaging.

Lymph Node is a type of tissue that filters and traps microorganisms, LN can be imaged using nuclear medicine techniques such as positron emission tomography.

Lymphoma is a type of cancer that affects the immune system, LM can be diagnosed and treated using nuclear medicine techniques.

Macrophage is a type of white blood cell that engulfs and digests foreign particles, Mac is an important factor in nuclear medicine imaging and therapy.

Magnetic Resonance Imaging is a type of medical imaging that uses magnetic fields to produce images, MRI is often used in combination with nuclear medicine imaging.

Matrix is a type of mathematical construct that is used to analyze and interpret data, Mat is an important factor in nuclear medicine imaging.

Medical Internal Radiation Dose is a type of calculation that estimates the dose of radiation that is received by a patient, MIRD is an important factor in nuclear medicine imaging and therapy.

Meningitis is a type of disease characterized by inflammation of the membranes surrounding the brain and spinal cord, Mening can be diagnosed and treated using nuclear medicine techniques.

Metastasis is the process by which cancer cells spread to other parts of the body, Mets can be imaged using nuclear medicine techniques such as positron emission tomography.

Microdose is a small dose of a medication or radioactive tracer,  $\mu$ D is an important factor in nuclear medicine imaging and therapy.

Microscopy is the use of a microscope to examine the microscopic structure of tissues, Micro is an important factor in nuclear medicine imaging and therapy.

Molecular Imaging is a type of medical imaging that measures the function of molecules, MI is a major area of focus in nuclear medicine.

Monitoring is the process of observing and tracking a patient's condition, Mon is an important factor in nuclear medicine imaging and therapy.

Monoclonal Antibody is a type of antibody that is produced by a single clone of cells, mAb is an important factor in nuclear medicine imaging and therapy.

Motion Artifact is a type of image distortion that occurs when a patient moves during imaging, MA is an important factor in nuclear medicine imaging.

Multimodality Imaging is a type of medical imaging that combines different modalities, MMI is a major area of focus in nuclear medicine.

Myocardial Infarction is a type of disease characterized by damage to the heart muscle, MI can be diagnosed and treated using nuclear medicine techniques.

Myocardial Perfusion is the process by which blood flows through the heart muscle, MP can be imaged using nuclear medicine techniques such as myocardial perfusion imaging.

Nanoparticle is a type of particle that is smaller than 100 nanometers, Nano is an important factor in nuclear medicine imaging and therapy.

National Council on Radiation Protection and Measurements is a type of organization that provides guidelines and recommendations for radiation protection, NCRP is an important factor in nuclear medicine imaging and therapy.

Necrosis is a type of cell death that occurs when cells are damaged or destroyed, Nec can be imaged using nuclear medicine techniques such as positron emission tomography.

Neoplasm is a type of abnormal growth or tumor, Neo can be imaged using nuclear medicine techniques such as positron emission tomography.

Neuroendocrine Tumor is a type of tumor that affects the nervous and endocrine systems, NET can be diagnosed and treated using nuclear medicine techniques.

Neuroimaging is a type of medical imaging that measures the function of the brain and nervous system, NI is a major area of focus in nuclear medicine.

Neurotransmitter is a type of chemical messenger that is produced by nerve cells, NT is an important factor in nuclear medicine imaging and therapy.

Non-Hodgkin Lymphoma is a type of cancer that affects the immune system, NHL can be diagnosed and treated using nuclear medicine techniques.

Nuclear Medicine is a type of medical specialty that uses radioactive tracers to diagnose and treat diseases, NM is a major area of focus in medical imaging.

Nuclear Reactor is a type of device that produces radioactive isotopes, NR is an important factor in nuclear medicine imaging and therapy.

Nucleic Acid is a type of molecule that contains genetic information, NA is an important factor in nuclear medicine imaging and therapy.

Nucleus is the central part of an atom that contains protons and neutrons, Nuc is an important factor in nuclear medicine imaging and therapy.

Oncology is the study of cancer and its treatment, Onc is a major area of focus in nuclear medicine.

Organ Uptake is the process by which a radioactive tracer is taken up by a particular organ or tissue, OU is an important factor in nuclear medicine imaging and therapy.

Osteoporosis is a type of disease characterized by a loss of bone density, Osteo can be diagnosed using nuclear medicine techniques such as bone densitometry.

Particle Accelerator is a type of device that accelerates particles to high energies, PA is an important factor in nuclear medicine imaging and therapy.

Pathology is the study of disease and its effects on the body, Path is an important factor in nuclear medicine imaging and therapy.

Patient Preparation is the process of preparing a patient for a medical procedure, PP is an important factor in nuclear medicine imaging and therapy.

Perfusion is the process by which blood flows through tissues, Perf can be imaged using nuclear medicine techniques such as myocardial perfusion imaging.

Petechia is a type of small blood vessel that can be affected by disease, Pet can be imaged using nuclear medicine techniques such as positron emission tomography.

Phagocytosis is the process by which cells engulf and digest foreign particles, Phag is an important factor in nuclear medicine imaging and therapy.

Pharmaceutical is a type of medication or drug, Pharm is an important factor in nuclear medicine imaging and therapy.

Pharmacokinetics is the study of the absorption, distribution, and elimination of medications, PK is an important factor in nuclear medicine imaging and therapy.

Pharmacology is the study of the effects of medications on the body, Pharm is an important factor in nuclear medicine imaging and therapy.

Phase Contrast is a type of imaging technique that measures the phase shift of radiation as it passes through a material, PC is an important factor in nuclear medicine imaging.

Phosphorus-32 is a type of radioactive isotope that is commonly used in nuclear medicine, P-32 is used to diagnose and treat various diseases.

Photomultiplier Tube is a type of detector that measures the energy of radiation, PMT is an important factor in nuclear medicine imaging.

Physiology is the study of the function of living organisms, Phys is an important factor in nuclear medicine imaging and therapy.

Pituitary Gland is a type of gland that regulates the production of hormones, Pit is an important factor in nuclear medicine imaging and therapy.

Pixel is a type of small unit of a digital image, Px is an important factor in nuclear medicine imaging.

Plasma is the liquid portion of the blood that carries cells and proteins, Plas is an important factor in nuclear medicine imaging and therapy.

Platelet is a type of blood cell that helps to form blood clots, Plat is an important factor in nuclear medicine imaging and therapy.

Positron Emission Tomography is a type of medical imaging that uses positrons to produce cross-sectional images, PET is a major area of focus in nuclear medicine.

Positron is a type of particle that is emitted by radioactive isotopes, Pos is an important factor in nuclear medicine imaging and therapy.

Prostate-Specific Antigen is a type of protein that is produced by the prostate gland, PSA is used as a tumor marker in nuclear medicine imaging.

Protein is a type of molecule that is composed of amino acids, Prot is an important factor in nuclear medicine imaging and therapy.

Proton is a type of particle that is found in the nucleus of an atom, Prot is an important factor in nuclear medicine imaging and therapy.

Quality Control is the process of ensuring that medical procedures and equipment meet certain standards, QC is an important factor in nuclear medicine imaging and therapy.

Quantification is the process of measuring the amount of a substance, Quant is an important factor in

nuclear medicine imaging and therapy.

Quantum is a type of small unit of energy, Q is an important factor in nuclear medicine imaging and therapy.

Radiation Dose is the amount of radiation that is received by a patient, RAD is an important factor in nuclear medicine imaging and therapy.

Radiation Protection is the process of minimizing exposure to radiation, RP is an important factor in nuclear medicine imaging and therapy.

Radiation Therapy is a type of cancer treatment that uses radiation to kill cancer cells, RT is an important factor in nuclear medicine therapy.

Radionuclide is a type of atom that emits radiation, RN is an important factor in nuclear medicine imaging and therapy.

Radionuclide Imaging is a type of medical imaging that uses radionuclides to produce images, RNI is a major area of focus in nuclear medicine.

Receptor is a type of molecule that binds to specific ligands, Rec is an important factor in nuclear medicine imaging and therapy.

Recombination is the process by which DNA molecules are combined, Rec is an important factor in nuclear medicine imaging and therapy.

Red Blood Cell is a type of blood cell that carries oxygen, RBC is an important factor in nuclear medicine imaging and therapy.

Regulatory Agency is a type of organization that oversees and regulates medical procedures and equipment, RA is an important factor in nuclear medicine imaging and therapy.

Renal System is the system of organs and tissues that filter and eliminate waste products, RS is an important area of focus in nuclear medicine imaging and therapy.

Resolution is the ability of a detector to distinguish between different energies or spatial locations, Res is an important factor in nuclear medicine imaging.

Respiratory System is the system of organs and tissues that bring oxygen into the body and remove carbon dioxide, RS is an important area of focus in nuclear medicine imaging and therapy.

Reticuloendothelial System is the system of cells and tissues that filter and remove foreign particles, RES is an important factor in nuclear medicine imaging and therapy.

Rheumatoid Arthritis is a type of disease characterized by inflammation of the joints, RA can be diagnosed and treated using nuclear medicine techniques.

Risk Assessment is the process of evaluating the potential risks and benefits of a medical procedure, RA is an important factor in nuclear medicine imaging and therapy.

Sarcoidosis is a type of disease characterized by inflammation of various organs and tissues, Sarc can be diagnosed and treated using nuclear medicine techniques.

Scintigraphy is a type of medical imaging that uses radioactive tracers to produce images, Scint is a major area of focus in nuclear medicine.

Scintillator is a type of material that converts radiation into visible light, Scint is an important factor in nuclear medicine imaging.

Segmentation is the process of dividing an image into different regions or segments, Seg is an important factor in nuclear medicine imaging.

Sensitivity is the ability of a detector to detect small amounts of radiation, Sens is an important factor in

nuclear medicine imaging.

Single-Photon Emission Computed Tomography is a type of nuclear medicine imaging that uses single photons to produce cross-sectional images, SPECT is a major area of focus in nuclear medicine.

Skeletal System is the system of bones and joints that provide support and structure to the body, SS is an important area of focus in nuclear medicine imaging and therapy.

Small Cell Lung Cancer is a type of cancer that affects the lungs, SCLC can be diagnosed and treated using nuclear medicine techniques.

Solvent is a type of liquid that is used to dissolve or extract substances, Sol is an important factor in nuclear medicine imaging and therapy.

SPECT-CT is a type of medical imaging that combines single-photon emission computed tomography and computed tomography, SPECT-CT is a major area of focus in nuclear medicine.

Standardized Uptake Value is a type of measurement that is used to quantify the uptake of a radioactive tracer, SUV is an important factor in nuclear medicine imaging and therapy.

Stem Cell is a type of cell that has the ability to differentiate into different cell types, SC is an important factor in nuclear medicine imaging and therapy.

Stochastic Effect is a type of effect that occurs randomly and is not directly related to the dose of radiation, SE is an important factor in nuclear medicine imaging and therapy.

Stroke is a type of disease characterized by damage to the brain or spinal cord, Stroke can be diagnosed and treated using nuclear medicine techniques.

Substance Abuse is a type of disease characterized by the misuse of substances, SA can be diagnosed and treated using nuclear medicine techniques.

Surgery is a type of medical procedure that involves the removal or repair of tissues, Surg is an important factor in nuclear medicine imaging and therapy.

Synthesis is the process of combining different substances to form a new compound, Synth is an important factor in nuclear medicine imaging and therapy.

Systemic Lupus Erythematosus is a type of disease characterized by inflammation of various organs and tissues, SLE can be diagnosed and treated using nuclear medicine techniques.

Technetium-99m is a type of radioactive isotope that is commonly used in nuclear medicine, Tc-99m is used to diagnose and treat various diseases.

Teletherapy is a type of cancer treatment that uses radiation to kill cancer cells from a distance, TT is an important factor in nuclear medicine therapy.

Therapeutic Index is a type of measurement that is used to evaluate the effectiveness and safety of a medication, TI is an important factor in nuclear medicine imaging and therapy.

Thrombosis is a type of disease characterized by the formation of blood clots, Throm can be diagnosed and treated using nuclear medicine techniques.

Thyroid Gland is a type of gland that regulates the production of hormones, Thy is an important factor in nuclear medicine imaging and therapy.

Thyroid Stimulating Hormone is a type of hormone that regulates the production of thyroid hormones, TSH is an important factor in nuclear medicine imaging and therapy.

Time-Activity Curve is a type of measurement that is used to evaluate the uptake and clearance of a radioactive tracer, TAC is an important factor in nuclear medicine imaging and therapy.

Tomography is a type of medical imaging that produces cross-sectional images, Tomo is a major area of

focus in nuclear medicine.

Toxicity is the degree to which a substance is poisonous or harmful, Tox is an important factor in nuclear medicine imaging and therapy.

Tracer is a type of radioactive substance that is used to diagnose or treat diseases, Tr is an important factor in nuclear medicine imaging and therapy.

Transcription is the process of creating a complementary RNA molecule from a DNA template, Trans is an important factor in nuclear medicine imaging and therapy.

Translation is the process of creating a protein from a messenger RNA molecule, Trans is an important factor in nuclear medicine imaging and therapy.

Transport is the process of moving substances across cell membranes, Trans is an important factor in nuclear medicine imaging and therapy.

Tumor is a type of abnormal growth or cancer, Tum can be imaged using nuclear medicine techniques such as positron emission tomography.

Tumor Marker is a type of substance that is produced by cancer cells, TM is an important factor in nuclear medicine imaging and therapy.

Ultrasound is a type of medical imaging that uses high-frequency sound waves to produce images, US is often used in combination with nuclear medicine imaging.

Unit Dose is a type of measurement that is used to evaluate the amount of a substance that is administered to a patient, UD is an important factor in nuclear medicine imaging and therapy.

Uptake is the process by which a substance is taken up by cells or tissues, Upt is an important factor in nuclear medicine imaging and therapy.

Urokinase is a type of enzyme that is used to dissolve blood clots, Uro is an important factor in nuclear medicine imaging and therapy.

Vaccine is a type of substance that is used to stimulate an immune response, Vac is an important factor in nuclear medicine imaging and therapy.

Valvular Heart Disease is a type of disease that affects the heart valves, VHD can be diagnosed and treated using nuclear medicine techniques.

Vasculitis is a type of disease characterized by inflammation of the blood vessels, Vas can be diagnosed and treated using nuclear medicine techniques.

Vector is a type of molecule that is used to deliver genetic material to cells, Vect is an important factor in nuclear medicine imaging and therapy.

Venous Access is the process of inserting a catheter or other device into a vein, VA is an important factor in nuclear medicine imaging and therapy.

Ventilation is the process of moving air in and out of the lungs, Vent can be imaged using nuclear medicine techniques such as ventilation-perfusion imaging.

Ventilation-Perfusion Imaging is a type of nuclear medicine imaging that measures the ventilation and perfusion of the lungs, VPI is used