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overview what is aseptic technique aseptic techniques are strict procedures that healthcare providers use to prevent the spread of infection these procedures involve following rigorous guidelines to ensure the environment remains free of pathogens germs that can make you sick although aseptic and sterile both basically mean germ free sterile is more likely to describe medical environments products and instruments that have been cleaned sterilized aseptic is more likely to describe techniques that keep an environment in its sterile state aseptic technique is a set of practices that healthcare professionals use to protect patients and themselves from infection it includes the use of sterile gloves and gowns during surgery aseptic processing is a processing technique wherein commercially thermally sterilized liquid products typically food or pharmaceutical are packaged into previously sterilized containers under sterile conditions to produce shelf stable products that do not need refrigeration aseptic technique is a collection of medical practices and procedures that helps protect patients from dangerous germs bacteria viruses and microorganisms are everywhere so using aseptic when performed properly aseptic technique prevents contamination and transfer of pathogens to the patient from caregiver hands surfaces and equipment during routine care or procedures the word aseptic literally means an absence of disease causing microbes and pathogens aseptic technique is a procedure used by medical staff to prevent the spread of infection the goal is to reach asepsis which means an environment that is free of harmful microorganisms a aseptic processing is a manufacturing method that can produce product that is absent of bacteria without subjecting the product to terminal sterilization processes many products degrade and become ineffective when subjected to the harsh conditions of terminal sterilization aseptic technique is the collection of procedures and techniques designed to prevent the introduction of unwanted organisms into a pure culture or into the laboratory environment the term aseptic literally means without contamination mokuolu watson marlow gmp regulations are well defined and focus essentially on the five p s people processes premises and products once there are appropriate controls and ongoing verification of these aspects has been established it should not be difficult nor challenging to comply to the gmp regulations the differences between sterile and aseptic technique are easily misunderstood and sometimes used interchangeably the key distinction between the two is essential for favorable outcomes during pharmaceutical and cleanroom operations what types of products need aseptic processing and why any parenteral products and some implantable devices are the most common candidates for aseptic processing parenteral products are drugs implanted or injected directly through the skin to enable direct administration into tissue organs blood vessels or lesions this guidance replaces the 1987 industry guideline on sterile drug products produced by aseptic processing aseptic processing guideline this revision updates and clarifies the 1987 terminal sterilization and aseptic processing are both effective methods of producing safe high quality drugs aseptic processing can be defined as the processing and packaging of a commercially sterile product into sterilised containers followed by hermetic sealing with a sterilised closure in a manner that prevents viable microbiological recontamination of the sterile product betta et al 2011 sterile product preparation and aseptic technique are advanced skills for pharmacy technicians while this training provides extended career opportunities it is a challenging and precise part of the pharmacy technician series sterile products is a comprehensive book covering the complex practice of sterile product preparation and correct aseptic technique antiseptic refers to a substance that is used to kill or prevent the growth of microorganisms on living tissue while aseptic refers to a process or environment that is free of microorganisms antiseptics are commonly used in medical settings to clean wounds or prepare the skin for surgery in general a sterile compounding role involves creating iv infusions in a clean room setting using aseptic technique a process that allows the end medication to be sterile enough for injection into the patient while the words sterile and aseptic are often used interchangeably they are not in fact interchangeable understanding the difference is important to ensure favorable outcomes in dairy and food processing sample collection and laboratory testing

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