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Know the different drug administration routes as oral, rectal, parenteral, inhalation, dermal and mucosal. Routes of administration of a drug are determined by its physical and chemical properties, patient characteristics and the rapidity of response desired. Major routes are oral, parenteral and topical. 1. The oral route of administration is the safest, most economical and the most convenient way of giving medicines. The dosage forms of the oral route include Tablets, Capsules, Powders, Mixtures, Emulsions and Gels. Most drugs are absorbed from small intestine but some are absorbed from stomach and colon. On oral administration, drug action has a slower onset and more prolonged but less potent effect than when drugs are given parenterally. Some drugs like nitroglycerin may be given sublingually by placing them under patient's tongue, where they are retained until dissolved and absorbed. The thin epithelium and the rich capillary network under the tongue permit rapid absorption and drug action. In addition, the drug is saved from hepatic inactivation and destruction by digestive enzymes as it reaches the general circulation without transverse through the liver. 2. Rectal administration can be advantageous when the stomach is retentive due to vomiting, when the drug has objectionable taste or odor or when it can be destroyed by digestive enzymes. 3. Parenteral route refers to any route other than gastrointestinal, but is commonly used to indicate subcutaneous, intramuscular and intravenous injections. These routes may be selected when the drug is poorly absorbed from the gut or inactivated by digestive enzymes or metabolized during its passage through liver or if the patient is unable to take or tolerate oral medication or if a rapid effect is desired. Drugs in solution are administered parenterally by means of a syringe – needle unit or an intravenous infusion set. In Intradermal injections the drug is injected into the outer layers of the skin. The amount of drug is small and absorption is slow. This route is mainly used for diagnostic tests and it is also used for injecting BCG vaccine. Subcutaneous injections are made into the loose subcutaneous tissue under the skin. This route is used to inject small amount of drug (2 ml or lesser). Drug absorption is slower and drug action is longer. This route is not advised in shock states because the reduced peripheral circulation may decrease the absorption rate. Irritant drugs are not given subcutaneously as they are painful and may cause tissue necrosis. Hypodermoclysis is a form of subcutaneous injection that permits the slow administration of large amounts (500 – 1000 ml in adults) of fluid such as isotonic saline or glucose solution. It is particularly useful in infants and young children to counteract dehydration. Intramuscular injections are given with a longer and heavier needle that penetrates the subcutaneous tissues, and the drug is deposited deep between the layers of muscle mass. This route is suitable for administration of solution and suspensions. When an immediate drug effect is desired or when for any reason the drug cannot be injected into the other tissues or when absorption may be inhibited by poor circulation Intravenous injections are given. This route is of great value in case of emergencies. The drug reaches directly into the bloodstream. An infusion is the intravenous administration of larger amounts of fluid, varying from 1 - 2 litres. The solution flows by gravity from a graduated bottle through a drip set. Infusions are mostly given to relieve tissue dehydration, to restore depleted blood volume, to dilute the toxic substances in the blood and tissues, to supply electrolytes drugs and food. In Intramedullary injections material is injected into the bone marrow of the sternum or tibia. Rapidity of drug effect is comparable with intravenous injection. This route is used when veins are not available. Intra arterial injection in this highly specialized procedure the needle is placed in an artery, through which an arterial blood sample may be withdrawn for blood studies or a radio-opaque substance may be injected to make arteries of the part visible on an x-ray film. The drug is injected into the subarachnoid space in Intrathecal injections or intraspinal. These injections are made by inserting the needle through the vertebral interspinous spaces into the spinal fluid, usually by lumbar puncture. This route is used to produce intense action of drugs on cerebrospinal system or to produce spinal anaesthesia. Epidural injection in this drug is deposited through vertebral interspace between the dura of spinal cord and the periosteal lining of spinal canal. In some emergencies like sudden cardiac arrest of an otherwise normal heart, Intra cardiac injections may be given. Injection of drug directly into the heart may start the heartbeat. 4. Inhalations: Two classes of substances may be administered by inhalation Volatile and Non-Volatile. Volatile substances like gaseous anaesthetics, vapours of liquid anaesthetics, gases like oxygen and carbon dioxide produce rapid effects when inhaled. Non-Volatile substances have to be broken down into small particles and inhaled as aerosols. These are liquid or solid particles so small that they remain suspended for a long time instead of settling down rapidly due to gravity. Smaller the particle size deeper it would reach in the respiratory passages. Common aerosol-producing devices are vaporizers, humidifiers, nebulizers, inhalers. Bronchodilators may be administered by inhalation for prompt action. 5. Dermal applications: Absorption of drug through skin is proportional to thin lipid solubility, as epidermis acts like lipid membrane barrier. The dermis is freely permeable to many fluids. Absorption through skin may be enhanced by suspending the drug in an oily vehicle. Dosage form applied topically are Powders, Liniments, Creams, Lotions and jellies. 6. Mucosal applications It is often used in the nose, throat, rectum, vagina to produce systemic effects because of good absorption through the highly vascularised mucosa of these areas. Dosage form for mucosal application include lozenges, sublingual tablets, suppositories, aerosols and nasal solutions. At the end, we can conclude that there are Enteral and Parenteral routes of drug administration. The enteral method includes Oral, rectal and sublingual. Parenteral methods include injections, inhalations, and application to the skin and mucous membrane. Get subject wise printable pdf documentsView Here Ankur Choudhary is India's first professional pharmaceutical blogger, author and founder of Pharmaceutical Guidelines, a widely-read pharmaceutical blog since 2008. Sign-up for the free email updates for your daily dose of pharmaceutical tips...moc.enilediugamrahp@ofni.iamENeed Help: Ask Question Visitors are also reading: DRUG ADMINISTRATION NURSING PROCEDURES LIST CLICK HERE Definition A drug or medicine is a substance used for diagnosis, treatment, cure, relief or prevention of disease Medicine is defined as a substance used to promote health, to prevent and cure disease Purpose of Medicine It is used for diagnosis It treats the disease condition To prevent health alterations To promote health alterations To treat infections, allergic and inflammation To relieve pain Forms of Medications Capsule: solid dosage form for oral care. Medicine is powder, liquid or oil of and encased by gelatin shell Lotion: medicine in liquid suspension applied externally to protect skin Solution: liquid preparation that may used orally, parentally or externally, can also be instilled into body organ or cavity (e.g. bladder irrigation) contains water with one or more dissolved compounds, must be sterile for parenteral use Suppository: solid dosage form mixed with gelatin and shaped inform of pellet for insertion into body cavity (rectum or vagina) Suspension: finely divided drug particles dispersed in liquid medium Syrup: medication dissolved in concentrated sugar solution, may contain flavoring to make medication more palatable Tablet: powdered dosage form compressed into hard disks or cylinders in addition to primary medication contains binders integrators, lubricates and filler Types of Medication Action Therapeutic effect: it is the expected or predictable physiological response a medication causes Site: the unintended secondary effects a medication predictably will cause. Side effects may be harmless or injuriousAdverse effect: there are generally considered serve responses to medication. For example, a client maybe becomes comatose when a drug is ingested Toxic effect: may develop after prolonged intake of a medication or when a medication accumulation in the blood because of impaired. Metabolism or excretion Idiosyncratic reaction: medicine may cause an idiosyncratic effect. This occurs when a patient over react or under reacts to a drug or has a reaction different form the normal Allergic reaction: it is an unpredictable reaction to a drug. In this, the drug acts as an antigen and antibodies are produced. Allergy causes antigen-antibody reaction Factors Influence the Medication Dosage Age: infants, children and the old requires smaller dosage of a drug than that of an adult Weight: a person of overweight requires a large dose the usual one Male requires: large dose then females Cumulative action of the drug: the frequency and dose of a drug administered depends upon the rate of excretion from the body Tolerance: it is capacity of taking excessive does without producing toxic effect Habituation: when a particular drug used continuously for a long period. The drug is withdrawn they may stop physical craving for it and show definite organic symptoms Addition: prolonged use of alcohol and narcotics may produce an extreme form of habituation and result in a condition known addiction Route of administration: drugs given by IV route have a very quick and immediate action Route of Administration The route of a drug depends on its properties, desired effect, and patient's physical and mental condition Oral administration: it is the most common route and the most convenient route for most patients Sublingual: the drug is placed under the tongue and letting it slowly dissolve, e.g. nitroglycerine Inhalations: the patient inhales the fumes in the lung to have a local and systemic effect, e.g. nitrous oxide (anesthetic effect) Inunctions (topical application): it is the application of the drug to the skin, usually by a friction, e.g. ointment Instillation: it is putting a drug in liquid form into the body cavity, such as urinary bladder or into body orifices such as ears, eyes and nose Insertions: means introducing solid forms of drugs into the body orifices, e.g. suppositories are introduced into the rectum or vagina Implantation: means planting or putting in of solid drugs into the body tissues Parenteral administration: parenteral means giving of therapeutic agents outside the alimentary tract. It is the type if administration accomplished by a needle Intramuscular: into the muscle Subcutaneous: into the subcutaneous tissue Intradermal: into the dermis Intravenous: into the vein Intraarterial: into the artery Intracardiac: into the cardiac muscles Intrathecal: into the spinal cavity Intraosseous: into the bone marrow Intrapertoneal: into the peritoneal cavity Eight Rights of Giving Medication Right Patient Check the name on the order and the patient Use 2 identifiers Ask patient to identify himself/herself When available, use technology (for example, bar-code system) Right Medication Check the medication label Check the order Right Dose Check the order Confirm appropriateness of the dose using a current drug reference If necessary, calculate the dose and have another nurse to calculate the dose as well Right Route Again, check the order and appropriateness of the route ordered Confirm that the patient can take or receive the medication by the ordered route Right Time Check the frequency of the ordered medication Double-check that you are giving an ordered dose at the correct time Confirm when the last dose was given Right Documentation Document administration after giving the ordered medicationChart the time, route, and any other specific information as necessary. For example, the site of an injection or any laboratory value or vital sign that needed to be checked before giving the drug Right Reason Confirm the rationale for the ordered medication. What is the patient's history? Why is he/she taking this medication? Revisit the reasons the long-term medication use Right Response Make sure that the drug led to the desired effect. If an antihypertensive was given, has his/her blood pressure improved? Does the patient verbalize improvement in depression while on an antidepressant? Be sure to document your monitoring of the patient and any other nursing interventions that are applicable Care of Medicine and Medicine All the medicines and drugs must be checked as they are received from the dispensary Dangerous drugs are given by special order and every dose should be accurate Medicine cupboard should be kept in room, near to the ward All poisonous drugs must be kept separately in a separate cupboard and it must be kept locked and the keys should be with ward sister Medicine for external use should be kept in a separate part of the cupboard The cupboard should be kept in well lighted and poison bottles should be clearly labeled There should be separate compartment for mixture, tablets, powders, etc The container should be arranged alphabetically so that it is easy to find them A register should be maintained to keep the account of the dangerous drugs Check the expiry date of every drug and make sure of it before its expiry date Emergency drugs should be kept in a place where they are readily obtained for emergency use Rule of Administration of Medicines Rule Regarding Labels Administer medications only form the properly labeler container Poisonous drugs should be labeled in red ink Read labels of medicine 3 times and check with doctor's order Pour the medicine form the bottle only after shaking the bottle Do not use the medicine that is different in color, test, odor and consistency Rules Regarding Measuring Medicine Always use a calibrated ounce glasses or medicine glass to measure the medicine Always give exactly what is ordered Make sure that the medicine glasses are clean and dry before pouring medicine Hold the ounce glass at eye level and place thumbnail of the hand at the required level and then pour the medicine Pour the medicine just before the time of administration into the medicine glasses Rules Regarding Administration Observe the five rights in giving each medication; right patient, right time, right medicine, right dosage and right method of administration Give medicines only after checking a signed medication order by the doctor Accept verbal orders, only in emergency to save the life of a patient Always identify the patient before giving medication Stay with the patient until he has taken medicine completelyAn error in medication should be immediately reported to the ward sister Use proper light while giving medicines because aim light can cause errors Never give water after giving cough syrups. It leaves a soothing effect to prevent cough Drugs which stimulate appetite should be given before food Rules Regarding Recording of Drugs Record each dose if medicine soon after it is administeredFollow standard observations in recording medicine Record time, dose and route of the medicine given Record only those medicines, which have been administered Record unusual effects such as allergic reactions Precautions to be taken Check the doctor's order, no medicine should be given without doctor's written order Give the medications only form a clearly labeled container Be sure that the medicine glasses are clean and dry before use Shake the liquid medicine before pouring into the ounce glass Wipe the mouth of the bottle, close it tightly and replace the bottle in the proper place after use Pour the medicine from the bottle on the side opposite to the label Once poured out, the medicine should not be returned to the bottle to prevent contamination of the whole medicine Give medicine at the correct time and see that patient takes it Always give the medicine that you have prepared yourself Do not leave the medicine with the patient Record after drug is given Nurses Responsibility in Drug Administration The nurse should know the following The nature of the drug; that is the name classification, types of preparation, effects, dosage absorption and excretion, routes and time of administration Essential parts of a medication order Abbreviations and symbols used in writing a medication order Weights and measures used Preparation of solutions and calculation of fractional dose Storing of medicines in proper containers Factors of safety in the administration of medicines Ethical and legal aspects Legal Aspects of Drug Administration Under the law the nurses are responsible for their work, though there is a written order The nurses must know the minimum and maximum dose of every medicine which she gives to the patient and its effect The nurse must know the law about the use of narcotics. These drugs must be kept in a separate cupboard the cupboard is kept locked and key is kept with the ward sister or senior nurse on duty The special register should be maintained for narcotics drugs, which includes clear detail about the patient nurse and the doctor who ordered the narcotic drug The nurse must observe five rights of giving medications to avoid errors The narcotic drugs should be stocked only persons. Institutions who have licensed to do so Scientific Principles Almost all drugs are harm producer and are foreign materials that the body producing reactions Additional force of water towards the glass produces a downward curve called meniscus The human tongue presents an irregular surface and so tablets, powders and capsules produce friction and prevent easy swallowing The sense of taste is acute and unpleasant taste may produce nausea and vomiting, the taste buds of the tongue can be partially desensitized by cold drinks Well diluted drugs and empty stomach favor absorption of drugs. But certain drugs are irritating to mucous membrane of the stomach Medical record is a legal one and reference for future study and research Using common medicine glasses promote cross infection Volatile liquids when kept open or not tightly corked diffuse through air and get decomposed An element of error is a possibility of all human activity and commit or omit a dose of medicine means the existence of the end of life of the person Understanding of how the drug benefits how it is to be given and side effects of the drug will help the patient to take drug regularly and a report to the physician concerned Administration of the medicine is a therapeutic measure it will be therapeutic only, if the patient ge the desired effect of the drug DRUG ADMINISTRATION - Definition, Purpose, Types and Forms, Route of drug administration, Eight rights, Rules, Care, Precautions, Nurse Responsibility, Legal Aspects, Principles SOURCES OF DRUGSYRINGES AND NEEDLES

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