Estradiol
Brand Name: Estrace, Estraderm, Climara, Vivelle-Dot
Generic Name: Estradiol
Adverse Effects: Nausea, vomiting, headache, bloating, breast tenderness, weight changes, menstrual irregularities, mood changes, thromboembolic disorders, hypertension, increased risk of endometrial, ovarian, or breast cancer.

Indications: Hormone replacement therapy (HRT) for menopause, treatment of hypoestrogenism, atrophic vaginitis, female hypogonadism, breast cancer, and prostate cancer.

Classifications: Estrogen Hormones

Nursing Considerations: Monitor for signs of thromboembolic disorders, hypertension, and breast, endometrial, or ovarian cancer. Advise the patient to report any abnormal vaginal bleeding, breast lumps, or sudden vision changes. Monitor liver function tests periodically.

Contraindications: Pregnancy, lactation, active thromboembolic disorders, undiagnosed vaginal bleeding, history of estrogen-dependent cancer, liver dysfunction, or allergy to estradiol.

Oxytocin
Brand Name: Pitocin
Generic Name: Oxytocin
Adverse Effects: Uterine hyperstimulation, hypertonicity, spasm, and rupture, fetal bradycardia, water intoxication, hyponatremia, anaphylaxis, and allergic reactions.

Indications: Induction or augmentation of labor, management of postpartum hemorrhage, incomplete abortion, and as a diagnostic agent for evaluation of pituitary and ovarian function.

Classifications: Hormones and Synthetic Substitutes

Nursing Considerations: Monitor fetal heart rate and contractions during administration. Monitor maternal blood pressure and uterine activity. Administer with caution in patients with cardiovascular diseases, renal impairment, or hyponatremia.

Contraindications: Fetal distress, unfavorable fetal position, premature placenta, cervical cancer, and severe preeclampsia.

Vardenafil
Brand Name: Levitra
Generic Name: Vardenafil
Adverse Effects: Headache, facial flushing, nasal congestion, dizziness, nausea, back pain, myalgia, visual disturbances, priapism, and sudden hearing loss.

Indications: Erectile dysfunction

Classifications: Phosphodiesterase Type 5 Inhibitor

Nursing Considerations: Instruct the patient to take the medication 1 hour before sexual activity. Caution the patient against using nitrates or alpha-blockers concomitantly. Monitor for adverse effects and advise the patient to report any prolonged erection or sudden hearing loss.

Contraindications: Use with nitrates, alpha-blockers, severe hepatic impairment, or known hypersensitivity to vardenafil.

Sildenafil
Brand Name: Viagra
Generic Name: Sildenafil
Adverse Effects: Headache, facial flushing, nasal congestion, dizziness, nausea, back pain, myalgia, visual disturbances, priapism, and sudden hearing loss.

Indications: Erectile dysfunction, pulmonary arterial hypertension

Classifications: Phosphodiesterase Type 5 Inhibitor

Nursing Considerations: Instruct the patient to take the medication 1 hour before sexual activity or as directed for pulmonary arterial hypertension. Caution the patient against using nitrates or alpha-blockers concomitantly. Monitor for adverse effects and advise the patient to report any prolonged erection or sudden hearing loss.

Contraindications: Use with nitrates, alpha-blockers, severe hepatic impairment, or known hypersensitivity to sildenafil.

Lidocaine
Brand Name: Xylocaine
Generic Name: Lidocaine
Adverse Effects: Local reactions such as burning, stinging, or pain at the injection site, dizziness, drowsiness, confusion, tremors, seizures, respiratory depression, hypotension, and cardiac arrhythmias.

Indications: Local anesthesia, treatment of ventricular arrhythmias, and as an anti-arrhythmic agent during cardiac surgery or resuscitation.

Classifications: Antiarrhythmic, Amide-type local anesthetic.

Nursing Considerations: Monitor vital signs and cardiac rhythm during administration. Assess for any signs of local or systemic toxicity. Advise the patient to report any unusual sensations or adverse effects.

Contraindications: Known hypersensitivity to lidocaine, heart block, severe bradycardia, or cardiogenic shock.

Propranolol
Brand Name: Inderal
Generic Name: Propranolol
Adverse Effects: Fatigue, weakness, bradycardia, hypotension, bronchospasm, gastrointestinal disturbances, depression, and sexual dysfunction.

Indications: Hypertension, angina pectoris, arrhythmias, migraine prophylaxis, and anxiety disorders.

Classifications: Beta-Blocker

Nursing Considerations: Monitor blood pressure, heart rate, and cardiac rhythm. Monitor for signs of depression and advise the patient to report any unusual changes in mood or behavior. Caution the patient against abrupt discontinuation.

Contraindications: Bradycardia, hypotension, heart block, asthma, or known hypersensitivity to propranolol.

Amiodarone
Brand Name: Cordarone, Pacerone
Generic Name: Amiodarone
Adverse Effects: Pulmonary toxicity, liver dysfunction, hypotension, bradycardia, thyroid dysfunction, skin discoloration, photosensitivity, corneal microdeposits, and cardiac arrhythmias.

Indications: Ventricular and supraventricular arrhythmias, atrial fibrillation, and atrial flutter.

Classifications: Antiarrhythmic

Nursing Considerations: Monitor vital signs, ECG, and serum electrolyte levels. Monitor for signs of pulmonary or liver toxicity. Advise the patient to avoid exposure to sunlight and to report any visual changes or skin discoloration.

Contraindications: Known hypersensitivity to amiodarone, severe sinus node dysfunction, heart block, bradycardia, or hypotension.

Diltiazem
Brand Name: Cardizem
Generic Name: Diltiazem
Adverse Effects: Hypotension, bradycardia, headache, dizziness, flushing, peripheral edema, constipation, and rash.

Indications: Hypertension, angina pectoris, and atrial fibrillation or flutter.

Classifications: Calcium Channel Blocker

Nursing Considerations: Monitor blood pressure, heart rate, and cardiac rhythm. Assess for signs of peripheral edema, constipation, or adverse reactions. Advise the patient to avoid consuming grapefruit or grapefruit juice.

Contraindications: Systolic blood pressure < 90 mm Hg, second- or third-degree AV block, sick sinus syndrome, or known hypersensitivity to diltiazem.

Adenosine
Brand Name: Adenocard
Generic Name: Adenosine
Adverse Effects: Flushing, chest discomfort, dyspnea, hypotension, headache, nausea, and transient heart block.

Indications: Supraventricular tachycardia.

Classifications: Antiarrhythmic, Nucleoside.

Nursing Considerations: Monitor ECG and vital signs during administration. Administer rapidly followed by saline flush. Advise the patient to report any unusual sensations or adverse effects.

Contraindications: Known hypersensitivity to adenosine, second- or third-degree AV block, or sick sinus syndrome.

Digoxin
Brand Name: Lanoxin
Generic Name: Digoxin
Adverse Effects: Anorexia, nausea, vomiting, headache, confusion, visual disturbances, arrhythmias, and cardiac toxicity.

Indications: Heart failure, atrial fibrillation, and atrial flutter.

Classifications: Cardiac Glycoside.

Nursing Considerations: Monitor serum digoxin levels and electrolyte levels, especially potassium. Monitor ECG, heart rate, and rhythm. Assess for signs of toxicity such as nausea, vomiting, visual disturbances, or arrhythmias.

Contraindications: Ventricular fibrillation, known hypersensitivity to digoxin, or Wolff-Parkinson-White syndrome. Caution should be taken in patients with renal impairment, hypokalemia, or hypomagnesemia.