

ACTIVE LEARNING TEMPLATE: Medication

STUDENT NAME _____

MEDICATION _____ REVIEW MODULE CHAPTER _____

CATEGORY CLASS _____

PURPOSE OF MEDICATION

Expected Pharmacological Action

Enhances effects of nitric oxide released during sexual stimulation. Nitric oxide activates guanylate cyclase, which produces increased levels of cGMP. cGMP produces smooth muscle relaxation of the corpus cavernosum, which promotes increased blood flow and subsequent erection. cGMP also leads to vasodilation of the pulmonary vasculature. Sildenafil inhibits the enzyme phosphodiesterase type 5 (PDE5); PDE5 inactivates cGMP.

Therapeutic Use

Enhanced blood flow to the corpus cavernosum and erection sufficient to allow sexual intercourse. Requires sexual stimulation.

Complications

hypotension	diarrhea
MI	myalgia
sudden death	UTI
vaso-occlusive crises	insomnia
flushing	paresthesia
rash	
headache	

Medication Administration

Contraindications/Precautions

underlying
cardiovascular disease
cardiac failure
CAD
pulmonary HTN

Nursing Interventions

monitor BP and HR when used with BP meds
monitor for pulmonary edema
determine presence of ED before administration.

Interactions

cimetidine	rifampin
erythromycin	ketoconazole
alcohol	
alpha adrenergic blockers	
barbiturates	
warfarin	
glipizide	

Client Education

take approx. 1 hour before sexual activity not more than once per day
not indicated in use for women
do not take concurrently with alpha-adrenergic blockers or nitrates
offers no protection from STDs

Evaluation of Medication Effectiveness

Enhanced blood flow to the corpus cavernosum and erection sufficient to allow sexual intercourse. Requires sexual stimulation.