

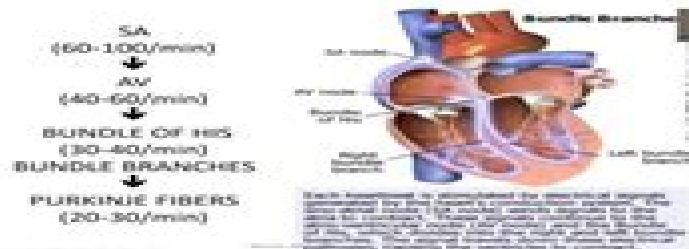
DRUGS AFFECTING THE AUTONOMIC NERVOUS SYSTEM



BODY TISSUE/ ORGAN	SYMPATHETIC RESPONSE	PARASYMPATHETIC RESPONSE
Eyes	Dilates pupils	Constricts the pupils
Lungs	Dilates bronchioles	Constricts the bronchioles
Heart	Increase heart rate	Decreased heart rate
Blood Vessels	Vasoconstriction	Vasodilation
Gastrointestinal	Relaxes smooth muscles	Increased peristalsis
Bladder	Relaxes bladder muscles	Contraction of the bladder muscles
Uterus	Relaxes the uterine muscles	Contracts uterine muscles
Salivary gland	Decreased salivation	Increased salivation
Transmitters	Adrenergic (norepinephrine)	Cholinergic (acetylcholine)

TERMS TO UNDERSTAND

1. **Sympathomimetic:** Adrenergic
2. **Sympatholytic:** Adrenergic – Blockers
3. **Parasympathomimetic:** Cholinergic
4. **Parasympatholytic:** Anti-Cholinergic



DRUGS FOR THE AUTONOMIC NERVOUS SYSTEM

1. Adrenergics

- **Norepinephrine** – secreted from primary nerve terminals
- **Epinephrine** – from the adrenal medulla
- **Dopamine** – brain, kidneys, GI tract
 - These drugs are the body's naturally occurring catecholamines
 - Will be utilized at the receptors and the organs

RECEPTOR	PHYSIOLOGIC RESPONSE
Alpha1	Blood vessels: vasoconstriction – Increased BP Eyes: Pupil dilation Bladder: Relaxation Prostate: Contraction/Emission
Alpha2	Located in the post-ganglionic sympathetic nerve endings Blood vessels: vasodilation – Decreased BP GI tract smooth muscle: Decreased GI tone and motility
Beta1	Heart: Increased heart contraction – Increased heart rate Kidney: Increased renin secretion – Increased blood pressure
Beta2	Lungs: Bronchodilation GI tract smooth muscle: Decreased GI tone and motility Uterus: Relaxation of uterine smooth muscle Liver: Activation of glycogenolysis – Increased blood sugar

Increased – positive; decreased – negative

- Heart rate – Chronotropy
- Conduction thru AV Node: Dromotropy
- Myocardial Contraction: Inotropy
 - Inotropes – drugs that increase myocardial contraction

Vagus nerve

- transmit acetylcholine, leading to decrease in heart rate
- transmitted to the ganglion towards the heart, decreasing the heart rate
- if there is stress, increase heart contraction
- Stimulation of the vagus nerve can be done through coughing, by valsalva maneuver, leading to bradycardia

- SA – pacemaker of the heart
- Increased HR – sympathetic response
- Decreased HR – parasympathetic response

The Nervous System On Drugs Answer Key

Arshad Iqbal



The Nervous System On Drugs Answer Key:

Reviewing **The Nervous System On Drugs Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**The Nervous System On Drugs Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

http://www.frostbox.com/files/detail/default.aspx/visual_art_waec2015_time_and_date.pdf

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