

*Introduction to Cardiovascular
Pharmacology*

Öner Süzer
www.onersuzer.com
osuzer@istanbul.edu.tr

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Goodman & Gilman

TEDAVİNİN
Farmakolojik
Temeli

*Laurence L. Brunton
John S. Lazo • Keith L. Parker*

Çeviri Editörü
Prof. Dr. Öner Süzer

 **nobel**
BY KILIMCIER İLA. Şİ.

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My program for cardiovascular pharmacology

04.12.2008	15:30-16:20	Introduction to cardiovascular pharmacology
16.12.2008	13:30-14:20	Treatment of heart failure
16.12.2008	14:30-15:20	Treatment of heart failure
18.12.2008	15:30-16:20	Treatment of heart failure
23.12.2008	13:30-14:20	Antiarrhythmics
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30.12.2008	13:30-14:20	Diuretics
30.12.2008	14:30-15:20	Diuretics
06.01.2009	13:30-14:20	Antianginals and peripheral vasodilators
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08.01.2009	15:30-16:20	Antianginals and peripheral vasodilators
13.01.2009	13:30-14:20	Hypertension and antihypertensive drugs
13.01.2009	14:30-15:20	Hypertension and antihypertensive drugs
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Treatment of Congestive Heart Failure

Öner Süzer

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osuzer@istanbul.edu.tr

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- **Vazodilators**

ACE inhibitors

1. Enalapril (*Renitec*)
2. Fosinopril (*Monopril*)
3. Captopril (*Kapril*)
4. Quinapril (*Acuitel*)
5. Lisinopril (*Rilace*)

Direct vasodilators

1. Hidralazine (*Apresoline*)
2. Isosorbit dinitrate (*Isordil*)
3. Minoxidile (*Loniten*)
4. Sodium nitroprusside (*Nipruss*)

- **Diuretics**

1. Bumetanide (*Bumid*)
2. Furosemide (*Lasix*)
3. Hydrochlorothiazide (*Aldactazide*)
4. Metolazon (*Mykrox*)
5. Spironolaktone (*Aldactone*)

- **Inotropic drugs**

Cardiac glycosides

1. Digitoxin (*Digimerck*)
2. Digoxin (*Digoxin*)

β -adrenergic agonists

1. Dobutamine (*Dobutrex*)
2. Dopamin (*jenerik*)

Calcium sensitizers

1. Levosimendan (*Simdax*)

Phosphodiesterase inhibitors

1. Amrinone (*Inocor*)
2. Enoksimone (*Perfan*)
3. Milrinone (*Primacor*)

- **β -blockers**

1. Bisoprolol (*Concor*)
2. Carvedilol (*Dilatrend*)
3. Metoprolol (*Beloc*)

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- **Loop diuretics**
 1. Bumetanide (*Bumid*)
 2. Etacrynic acide (*Edecrin*)
 3. Furosemide (*Lasix*)
 4. Torsemide (*Demadex*)
- **Thiazides and related compounds**
 1. Bendroflumethiazide (*Naturetin*)
 2. Benzthiazide (*Exna*)
 3. Hydroflumethiazide (*Diucardin*)
 4. Hydrochlorothiazide (refer to combinations)
 5. Indapamide (*Fludex*)
 6. Quinetazone (*Hydromox*)
 7. Chlorothiazide (*Diuril*)
 8. Chlorthalidone (*Akuadon*)
 9. Methyclothiazide (*Enduron*)
 10. Metolazone (*Mykrox*)
 11. Polythiazide (*Renese*)
 12. Trichlormethiazide (*Naqua*)

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<ul style="list-style-type: none"> • Potassium sparing diuretics 	<ol style="list-style-type: none"> 1. Amiloride (refer to combinations) 2. Eplerenone (<i>Inspira</i>) 3. Spironolactone (Aldactone) 4. Triamteren (refer to combinations)
<ul style="list-style-type: none"> • Diuretic combinations 	<ol style="list-style-type: none"> 1. Hydrochlorothiazide + amiloride (Moduretic) 2. Hydrochlorothiazide + spironolactone (Aldactazide) 3. Hydrochlorothiazide + triamterene (Triamteril)
<ul style="list-style-type: none"> • Osmotic diuretics 	<ol style="list-style-type: none"> 1. Mannitol (jenerik) 2. Urea (<i>jenerik</i>)
<ul style="list-style-type: none"> • Carbonic anhydrase inhibitors 	<ol style="list-style-type: none"> 1. Acetazolamide (Diazomid) 2. Brinzolamide (Azopt) 3. Dichlorphenamide (<i>Daranide</i>) 4. Dorzolamide (Trusopt) 5. Metazolamide (<i>Neptazane</i>)

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- **Class 1**
(Na⁺ channel blockers)

1a

1. Disopiramide (Norpace)
2. Quinine (Quinocardine)
3. Procainamide (*Pronestyl*)

1b

1. Aprindin (*Fiboran*)
2. Phenytoin (Epanutin)
3. Lidocaine (Aritmal)
4. Mexiletine (Mexitil)
5. Tocainide (*Tonocard*)

1c

1. Encainide (no preparation)
2. Flecainide (*Tambocor*)
3. Morisizine (*Ethmozine*)
4. Lorcaïnide (*Remivox*)
5. Propafenon (Rytmonorm)

- **Class 2**
(β-blockers)

1. Acebutolol (Prent)
2. Esmolol (Brevibloc)
3. Metoprolol (Beloc)
4. Pindolol (Apo-Pindol)
5. Propranolol (Dideral)
6. Sotalol (Darob)

- **Class 3**
(K⁺ channel blockers)

1. Amiodaron (Cordarone)
2. Bretilium (*Bretylol*)
3. Dofetilide (*Tikosyn*)
4. Ibutilide (*Corvert*)
5. Sotalol (Darob)

- **Class 4**
(Ca²⁺ channel blockers)

1. Bepridil (*Vasacor*)
2. Diltiazem (Diltizem)
3. Verapamil (Isoptin)

- **Other antiarrhythmic drugs**

1. Adenosine (*Adenocard*)
2. Digoxin (Digoxin)
3. Calcium (Calcium Sandoz)
4. Magnesium sulphate (generic)
5. Potassium chloride (generic)

**Vasodilators,
Treatment of Angina Pectoris**
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<ul style="list-style-type: none">• Nitrates and nitrites	<ol style="list-style-type: none">1. Amyl nitrite (<i>Aspirols</i>)2. Isosorbide dinitrate (Isordil, Cardioket)3. Isosorbide mononitrate (Monoket)4. Nitroglycerine (Nitroderm TTS, Perlinganit, Nitrolingual)5. Pentaerytritol tetranitrate (Danitrin)
<ul style="list-style-type: none">• β-blockers	<ol style="list-style-type: none">1. Propranolol (Dideral) and others
<ul style="list-style-type: none">• L-type voltage dependent calcium channel blockers	<ol style="list-style-type: none">1. Amlodipine (Norvasc)2. Bepridil (<i>Vascor</i>)3. Diltiazem (Diltizem)4. Mibefranil (preparatı yok)5. Nifedipine (Adalat Crono)6. Verapamil (Isoptin)
<ul style="list-style-type: none">• Other antianginal drugs	<ol style="list-style-type: none">1. Flunarizine (Sibelium)2. Cromakalime (no preparation)3. Pinacidil (<i>Pindac</i>)4. Ranolarizine (<i>Ranexa</i>)5. Trimetazidine (Vastarel)

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Antihypertensive Drugs
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|---|--|
| • Diuretics | <ol style="list-style-type: none">1. Bumetanide (Bumid)2. Furosemide (Lasix)3. Hydrochlorothiazide (Aldactazide)4. Indapamide (Fludex)5. Spironolactone (Aldactone)6. Triamterene (Triamteril) |
| • β-blockers | <ol style="list-style-type: none">1. Acebutolol (Prent)2. Atenolol (Tensinor)3. Carvedilol (Dilatrend)4. Labetalol (<i>Trandate</i>)5. Metoprolol (Beloc)6. Nadolol (<i>Corgard</i>)7. Propranolol (Dideral) |
| • α-blockers | <ol style="list-style-type: none">1. Doxazosin (Cardura)2. Prazosin (Minipress)3. Terazosin (Hytrin)4. Trimazosin (<i>Cardovar BD</i>) |
| • Centrally acting sympathoplegics | <ol style="list-style-type: none">1. Clonidine (<i>Catapres</i>)2. α-Methyldopa (Alfamet)3. Moxonidine (Physiotens)4. Rilmenidine (Hyperium) |

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• Adrenergic nerve blockers	1. Reserpine (Regroton)
• Angiotensin receptor blockers	1. Candesartan (Atacand) 2. Eprosartan (Teveten) 3. Irbesartan (Karvea) 4. Losartan (Cozaar) 5. Telmisartan (Micardis) 6. Valsartan (Diovan)
• ACE inhibitors	1. Benazepril (Cibacen) 2. Captopril (Kapril) 3. Cilazapril (Inhibace) 4. Enalapril (Renitec) 5. Fosinopril (Monopril) 6. Lisinopril (Rilace) 7. Moexipril (Univasc) 8. Perindopril (Coversyl) 9. Quinapril (Acuitel) 10. Ramipril (Delix) 11. Trandolapril (Gopten) 12. Zofenopril (Zoprotec)

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• Ca²⁺ channel blockers	1. Amlodipine (Norvasc) 2. Diltiazem (Diltizem) 3. Felodipine (Plendil) 4. Isradipine (Dynacirc) 5. Lacipidine (Lacipil) 6. Lercadipine (Lercadip) 7. Nifedipine (Adalat Crono) 8. Nilvadipine (Nilvadis) 9. Nisoldipine (Syscor) 10. Nitrendipine (Baypress) 11. Verapamil (Isoptin)
• Other vasodilators	1. Diazoxide (<i>Hyperstat</i>) 2. Fenoldopam (<i>Corlopam</i>) 3. Hydralazine (<i>Apresoline</i>) 4. Minoxidil (<i>Loniten</i>) 5. Sodium nitroprusside (Nipruss)

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- **Combined preparations**

1. Atenolol+ chlorthalidone (Tenoretic)
2. Benazepril + hydrochlorothiazide (Cibadrex)
3. Candesartan + hydrochlorothiazide (Atacand Plus)
4. Cilazapril + hydrochlorothiazide (Inhibace Plus)
5. Enalapril + hydrochlorothiazide (Konveril Plus)
6. Fosinopril + hydrochlorothiazide (Monopril Plus)
7. Irbesartan + hydrochlorothiazide (Karvezide)
8. Lisinopril + hydrochlorothiazide (Rilace Plus)
9. Losartan + hydrochlorothiazide (Hyzaar)
10. Perindopril + indapamid (Coversyl Plus)
11. Quinapril + hydrochlorothiazide (Accuzide)
12. Ramipril + hydrochlorothiazide (Delix Plus)
13. Reserpine + chlorthalidone (Regreton)
14. Trandolapril + verapamil (Tarka)
15. Valsartan + hydrochlorothiazide (Co-Diovan)

Thank you...