This table contains B adrenergic drugs and notes about them collected from all the slides.

Color code: light blue:propranolol is the most important drug of all.

Dark blue:Partial beta agonist activity

Light green: Has other functions other than dealing with beta receptors. Example: sotatlol blocks potassium channels in heart

Name of B	B1-	Partial	Notes
antagonist	Selective ⁺	agonist?	
Propanolol (the prototypical B-blocking drug)	No	No	 Lipophillic* → can cross BBB Low and dose dependent bioavailability (extensive hepatic first pass**), liver disease may prolong half-life. Blocks serotonin receptors in brain. (no clinical significance) Used for: Hyperthyroidism (prevents conversion of thyroxin to triiodothyronine) Migraine Reduce tremors Reduce "stage fright" Treatment of alcohol
Nadolol	No	No	 Is not metabolized at all; excreted unchanged in urine. Longest half-life (24 hours). Renal failure prolongs half-life.
Nebivolol	Yes	No	 Can elicit Vasodilation (Nitric oxide pathway) thus it is preferred for patients with asthma.
Atenolol	Yes	No	B1 selective antagomists which makes them safer
Metoprolol	Yes	No	 for use with: (however caution must still be taken) Patients with asthma Diabetic patients Peripheral vascular disease
Timolol			Topical use for wide angle glaucoma (because it has no local anestheric activity and excellent hypotensive activity)
Esmolol			The shortest half life
Acebutalol Pindolol	Yes No	YES	These drugs have partial B-agonist activity. So they are effective in hypertension and angina. They are less likely to cause:
Celiprolol	Yes	YES	 Bradychardia Abnormalities in plasma lipids Bronchoconstriction (in fact they might
			promote bronchodilation!)
Labetalol	No	YES (but relevant to our	 A mixture drug of: an alpha 1 antagonist and a nonselective B-antagonist. Used for hypertensive emergencies (It can

		discussion)	 block alpha 1 receptors in addition to B receptors) Hypotension not associated with tachycardia like other Alpha 1 antagonists.
Carvedilol	No	No	 Ratio of B receptor to alpha 1 potency is 1:10 Used for hypertension and systemetic heart failure.
Stolalol	No	No	Has class 3 antiarrhythmic effects: Blocks potassium channel in heart. Used for: Ventricular and supra ventricular arrhythmias.

^{*}Penbutolol is lipophilic aswell.

^{**} metoprolol is highly metabolized aswell, while atenolol and pindolol are less metabolized. **Nadolol** is not metabolized at all! With the longest half-life (24 hours). Esmolol has the lowest half-life (10 minutes).