Selective Serotonin Reuptake Inhibitors – Side Effects and Drug Interactions

All SSRI's

Citalopram – Celexa

Escitalopram – Lexapro

Fluoxetine – Prozac

Fluvoxamine – Luvox

Paroxetine – Paxil

Sertraline – Zoloft

Luvox
- Photosensit. possible

- Weight gain unusual
  - Exc. Paxil, Celexa
- Sexual Dysfunction
  - Delayed ejaculation
  - Erectile dysfunction
  - Decreased desire
  - Anorgasmia
- GI
  - Decreased appetite
  - Nausea
  - Diarrhea
  - Constipation
  - Dry mouth
- CNS
  - Insomnia
  - Sedation (Luvox)
  - Agitation
  - Tremors
  - Headaches
  - Dizziness
- Autonomic – sweating
- Bruising and rare bleed.
- SIADH

Rare
- Hyponatremia (elderly)
- Seizures
- Induction of mania
- Suicidality (age < 24)

	Lexapr	Celexa	Prozac	Zoloft	Paxil	Luvox	
Tramadol	x	x	x	x	x	x	Increased risk of seizures
MAO Inhibitors	x	x	x	x	x	x	Serotonin Syndrome
Triptans	x	x	x	x	x	x	Rare – weakn., hyperreflexia, incoord.
NSAIDS, Warfarin	x	x	x	x	x	x	Increased risk of bleeding
Tricyclics		x	x	x	x	x	Increased TCA plasma levels
H'y pr bound drugs		x	x	x	x	x	SSRI's can displace these (Warfarin)
Codeine		x	x	x	x		2D6 • Interfere w analgesic actions of Codeine • Incr'd plasma l. of BB, and Atomoxe. • Incr'd plasma l. of T (arrhythmias)
Beta Blockers		x	x	x	x		
Atomoxetine		x	x	x	x		
Thioridazine		x	x	x	x		
Pimozide			x	x		x	3A4 • Incr'd Pim levels (QTc prolongation) • Incr'd plasma l. of A, T, and B • Incr'd plasma l. of S (Rhabdomyol.) (Exc. Pravastatin and Lovastatin)
Alprazolam			x	x		x	
Triazolam			x	x		x	
Statins			x	x		x	
Buspirone			x	x			
Theophylline					x	x	1A2 - Incr'd T levels. Jitteriness, excessive stimulation and seizures
Diazepam			x				Incr'd Diazepam plasma levels
Trazodone			x				Incr'd Trazodone plasma levels
Pimozide					x		Incr'd Pim levels (QTc prolongation)
Anticholinergics					x		Incr'd anticholin effects (Procyclidine)
Other Benzos						x	3A4 - Incr'd Benzo plasma levels
Carbamazepine						x	3A4 – Incr'd Carbam. plasma levels
Clozapine						x	1A2 – Incr'd Clozapine plasma levels
Caffeine						x	Jitteriness, excessive stimulation, sz
Tobacco						x	Tobacco lowers Luvox plasma levels

SPARI (Serotonin Partial Agonist Reuptake Inhibitor) - Side Effects and Drug Interactions

Vilazodone - Viibryd

- Weight gain unusual
- GI
  - Nausea
  - Diarrhea
  - Vomitting
- CNS
  - Insomnia
  - Dizziness
- Bruising and rare bleed.

- Sexual Dysfunction (< SSRI, SNRI)
  - Delayed ejaculation
  - Decreased desire
  - Anorgasmia

Rare
- Hyponatremia (elderly)
- Seizures
- Induction of mania
- Suicidality (age < 24)

Tramadol	Increased risk of seizures
MAO Inhibitors	Serotonin Syndrome
Nefazodone	3A4 Inhibitors These increase plasma levels of Viibryd
Fluoxetine	
Fluvoxamine	
Grapefruit Juice	
Carbamazepine	3A4 Inducer - Decr'd Viibryd plasma l.
Triptans	Rare – weakn., hyperreflexia, incoord.
Dopamine Antagonists	Serotonin Syndrome
NSAIDS, Warfarin	Increased risk of bleeding

SNRI (Dual Serotonin and Norepinephrine Reuptake Inhibitors) – Side Effects and Drug Interactions

All SNRI's (exc Fetzima)

Desvenlafaxine – Pristiq

Duloxetine – Cymbalta

Venlafaxine – Effexor

Milnacipran – Savella

Levomilnacipran – Fetzima

Fetzima Only
- GI
  - Nausea
  - Constipation
- Autonomic – sweating
- Sexual dysfunction
  - Erectile dysfunct.
- Sedation (Savella too)
- Cardiac (Savella too)
  - Incr'd heart rate
  - Palpitations

- Weight gain unusual
- GI
  - Nausea
  - Decreased appetite
  - Diarrhea
  - Constipation
  - Dry mouth
- CNS
  - Insomnia
  - Dizziness
- Sexual dysfunction
  - Abnl ejaculation
  - Abnormal orgasm
  - Impotence
  - Decr'd desire
- Autonomic
  - Sweating
  - Increased BP

Rare
- Seizures
- Induction of mania
- Suicidality (age < 24)

	Pristiq	Effexor	Cymbalta	Savella	Fetzima		
NSAIDS, Warfarin	x	x	x	x	x		Increased risk of bleeding
MAO Inhibitors	x	x	x	x	x		Serotonin Syndrome
Tramadol	x	x		x	x		Increased risk of seizures
Codeine, Triptans		x	x				2D6 - Interfere w analg. actions of C, T
Tricyclics			x				Increased TCA plasma levels
Luvox			x				1A2 – May incr Cymbalta plasma l.
Theophylline			x				1A2 – Incr'd Theophylline and Clozapine plasma levels
Clozapine			x				
Beta Blockers			x				2D6 • Incr'd plasma l. of BB, and A. • Incr'd plasma l. of T (arrhythmias)
Atomoxetine			x				
Thioridazine			x				
Tobacco			x				T lowers Cymbalta plasma levels
Cimetidine		x					C increases Effexor plasma levels
NE Reuptake Inhib				x	x		Noradrenergic mediated side effects
Ketoconazole					x		3A4 – K increases Fetzima plasma l.
Etoh					x		Accel'd Fetzima release, drug dumping
Anxiety	x	x		x			
SIADH	x	x		x			Unique Side Effects of Individual SNRIs
Hyponatremia	x	x					Rare hepatotoxicity — Cymbalta
Headache		x		x			↑ ALT/AST, avoid w etoh, chronic liver diz. — Savella
Asthenia		x		x			
Vomiting	x				x		
GU				x	x		Dysuria, hesitancy, urinary retention

NDRI (Norepinephrine Dopamine Reuptake Inhibitor). Wellbutrin - Bupropion

- Weight gain unusual
- GI - Dry mouth, N, constipat., anorexia, abdom. Pain
- CNS – Insomnia, ha, dizziness, agitation, anxiety, tremor, tinnitus
- Sweating, rash, htn

- Rare - Seizures, induction of mania, Suicidality (age < 24)

Amantadine, Levodopa	↑ dopamine can activate
Tramadol	Increased risk of seizures
Tricyclics	WB can increase TCA plasma l.
MAO Inhibitors	Can be fatal when combined
Codeine, BB, Atomoxetine	↑ BB, A levels and interfere w C
Thioridazine	2D6. ↑ T plasma l. (arrhythmias)
LiCO3, meds that ↑ sz risk	Combo w WB incr. risk of sz

NaSSA (Noradrenaline and Specific Serotonergic Agent). Remeron - Mirtazipine

- Weight gain common
- GI
  - Dry mouth
  - Increased appetite
  - Constipation
- CNS
  - Sedation
  - Confusion
  - Abnl dreams, dizziness.

- Hypotension, urinary function changes
- Agranulocytosis, flu-like symptoms sx
- Increased lipids, Increased photosensitivity
- Rare - Seizures, induction of mania, Suicidality (age < 24)

Tramadol	Increased risk of seizures
MAO Inhibitors	Serotonin Syndrome
Etoh	↑ sedation; ↑ motor, cognition effects