ADHD Treatment Chart			by: Monica Lee, Brent Jensen, Loren Regier www.RxFiles	
Generic/TRADE g=generic avail (Strength & forms) Pregnancy ⁹	Side effects / Contraindications 🖸	$\sqrt{}$ = therapeutic use / Comments / Drug Interactions DI / Monitor M	Initial ⁴ / Typical Dose ⁸ (Max mg/d) * Titration ⁴ { Child(up to 40 kg); Adolescent; Adult }	\$ *** / 30 days
7 0 3	Response rate ~ 75%: SHORT-ACTING: (Ritalin, Dexedrine)		children. But, social stigmatization & drug diversion concerns related to in	,
NTERMEDIATE-ACTING : (Ritalin SR	Dexedrine Spansules) may last up to 8 hours.	(CADDRA guidelines generally recommend long-act	ing agents as 1 st line; however expert opinion notes role for individualiza	tion of therapy.}
	 Adderall XR) are dosed once-daily & have less fluctuation <u>Common</u>: appetite suppression, ↓ weight, insomnia, headache, 	in serum concentrations (may \uparrow compliance). May affect evolve $\sqrt{\text{ADHD}}$ age $\geq 6\text{yr}$ (marcolepsy in the USA)	ening appetite & sleep, & are more expensive (varying drug plan coverage). Less a	
Amphetamine Mixed Salts dextroamphetamine and	dry mouth, rebound irritability, nausea/vomiting,	May be opened & sprinkled on soft foods	Peds: 10mg qam / 30mg qam (30 mg/d) Titrate 5-10mg q7d	86 / 123 (123)
levoamphetamine salts (3:1)	constipation/diarrhea, GI upset, dizziness, anxiety, tremor. TBP & THR. emotional lability: slow growth	Duration: 8-12hr (long-acting)	Adolescents: 10mg qam / 30mg qam (50mg/d) Titrate 5mg q7d	86 / 123 (220
ADDERALL XR χ ⊗ , 10, 15, 20, 25, 30mg cap	Infrequent: uncovering tics, sexual dysfunction, tactile & visual	DI: <u>^amphetamines effect:</u> acetazolamide, antacid; MAOI &	Adults:	007 120 (220
0% immediate release & 🔼	hallucinations, psychosis, ↓ seizure threshold Serious: sudden death (see Cardiac Risk note below)	linezolid [†] effect & [†] BP; sympathomimetics [†] HR & BP, & TCAs [†] CV effects M: ADHD symptoms, behaviour & academic performance;	10mg qam / 60mg qam (60mg/d) Titrate 5-10mg q7d	86 / 240 (240
0% gradual release [MOA:↑ DA,NE]	CI: advanced arteriosclerosis, symptomatic CV dx, hyperthyroidism	rating scales e.g. SNAP-IV, Conners', CGI; physical		00 / 240 (240
	TBP, hypersensitivity/idiosyncrasy to sympathomimetic amines, glaucoma, agitated states, drug abuse hx, or MAOI use within 14day	exam, patient & family cardiac hx, ECG (at baseline & consider repeat if pt age <12yr at initial ECG or if		
	or if cardiac dx $\rightarrow \uparrow$ BP/ \uparrow HR, serious CV events or even	change in patient symptoms eg. palpitations/syncope)		
	nce→ ↑ abuse; hx seizures/EEG changes→ may ↓seizure pipolar or hx of tics or Tourette's → may worsen disorder	BP, HR: At Day 0, 1 & 3months then q6-12months Pediatric patients: development, weight & growth		
Dextroamphetamine	Common: as in Adderall XR	$\sqrt{\text{ADHD age}} \ge 6 \text{ yr}$; adjunctive therapy for narcrolepsy	Peds: Tab: 2.5mg qam & qnoon / 10mg bid (30mg/d)	26 / 82 (121)
DEXEDRINE 5° mg tab	Infrequent: as in Adderall XR	Duration: Tab:~4-6hr (short);	Titrate 5mg q7d by adding 4pm dose Spansule: 10mg qam / 15mg qam (30mg/d)	34 / <mark>40</mark> (74)
EXEDRINE Spansule	Serious: as in Adderall XR in a sin Adderall XR + patients with motor tics or with a family	Spansule both IR & ER pellets: 6-8hr (intermediate)	Titrate 10mg q7d by adding 4pm dose	34 / <mark>40</mark> (/4
0, 15mg cap IOA: blocks re-uptake of DA; increases	hx of diagnosis of Tourette's Syndrome‡	More potent than MPH (10mg MPH ≈ 5mg Dextroamp.)	Adolescents:	
elease of DA and NE]	Precautions: as in Adderall XR + tartrazine	Short-acting often used as <u>initial</u> Tx in small kids, but bid-tid dosing; longer acting greater convenience,	Tab: 2.5mg qam & qnoon / 10mg bid (30 mg/d) Titrate 5mg q7d by adding 4pm dose	26 / 82 (121)
{SK Formulary: max \$15/Rx	(FD&C Yellow No. 5) sensitivity, esp. with aspirin sensitivity; may cause allergic-type reaction (tablets)	confidentiality but may ↓evening appetite & ↓sleep	Spansule: 10mg qam / 15mg qam (30 mg/d)	34 / <mark>40</mark> (74
for age ≤14yrs as of Jul/08}		Spansules may be opened & sprinkled on soft foods	Titrate 10mg q7d by adding 4pm dose Adult:	0.7 (
Precautions: CV disease (HF, MI, ↑BP, QT syndr	ome) $\rightarrow \uparrow BP/\uparrow HR$, sudden death reported;	Di: as in Adderall XR	Tab: 5mg qam & qnoon / 15mg bid (50 mg/d)	44 / 121 (197
Hx of drug/alcohol dependence-	→ ↑ abuse; Psychosis → may worsen Sx; hyperthyroidism;	M: as in Adderall XR	Titrate 5mg q7d by adding 4pm dose	44 / 121 (137
Seizures/EEG changes → may ↓ Severe depression or normal fat			Spansule: 10mg qam / 30mg qam (45 mg/d) Titrate 10mg q7d by adding 4pm dose	34 / <mark>74</mark> (107)
fethylphenidate (MPH)	Common: Insomnia ¹3%, ↓appetite ²6%, nausea ¹2%, vomiting ¹0%,	$\sqrt{\text{ADHD age}} \ge 6\text{yr}^{(\text{narcolepsy in the USA})}$	Peds: IR tab: 5mg gam & gnoon 0.3 mg/kg/day / 10mg tid (60mg/d)	15 / 25 (41)
RITALIN, g 5, 10°, 20° mg tab	weight loss ^{9%} , tic ^{7%} , emotional instability ^{6%} , anorexia ^{5%} , nasal congestion ^{6%} , nasopharyngitis ^{5%} , headaches	Duration : Tabs : ~3-5hr (short -acting);	Titrate 5-10mg ^{0.2 mg/kg/day} q7d by adding 4pm dose	
RITALIN SR, g 20mg tab	Serious: blood dyscrasia (very rare), angioedema, hallucinations,	SR: ~3-8hr (intermediate-acting) Short-acting often used as initial Tx in small kids, but	SR tab: 20mg qam / 40mg qam (60mg/d) Titrate 20mg q7d by adding 2pm dose	22 / 35 (49)
-do not chew or crush tablet OA: blocks DA reuptake] wax matrix	sudden death (see Cardiac Risk note below)	bid-tid dosing; Intermediate acting \(^{\chi}\) convenience &	Adolescents:	
	el: Anxiety, tension, agitation, thyrotoxicosis, advanced arteriosclerosis, symptomatic CV disease, ↑BP, glaucoma &	confidentiality but may √evening appetite & √sleep clonidine ECG changes & sudden death; linezolid & MAOI ↑BF;	IR tab: 5mg qam & qnoon / 20mg tid (60 mg/d) Titrate 5mg q7d by adding 4pm dose	15 / 41 (41
{SK Formulary: max \$15/Rx	pheochromocytoma, patients with motor tics or with a family hx	phenobarbital & phenytoin hevel; sympathomimetic HR&BP,	SR tab: 20mg qam / 60mg qam (80 mg/d)	22 / 49 (63)
for age ≤14yrs as of Jul/08}	or diagnosis of Tourette's syndrome‡, MAOI use within 14 days.	$\underline{TCAs}^{\uparrowTCAlevels}, warfarin^{\uparrowINR}\underline{\downarrow}\underline{MPHlevel}$: carbamazepine	Titrate 20mg q7d by adding 2pm dose Adult: Lower	<u> </u>
Precautions:		M: as in Adderall XR. Also CBC, differential & platelets: periodically long-term Tx	IR tab: 10mg qam & qnoon / 20mg tid (60 mg/d)	ons 19 / 41 (41)
	QT syndrome) $\rightarrow \uparrow BP/\uparrow HR$, sudden death reported;	Consider abuse & diversion risk especially with any short	Titrate 10mg q7d by adding 4pm dose SR tab: 20mg qam / 60mg qam (100 mg/d)	
Hx of drug/alcohol depo		acting stimulant (e.g. children may be targeted for the drug).	Titrate 20mg q7d by adding 2pm dose	22 / 49 (77)
Psychosis → may worsen Sx; hyperthyroidism Seizures/EEG changes → may ↓ seizure threshold; Severe depression or normal fatigue → cautious/avoid use.		Take reasonable precautions to ↓ risk (e.g. use of treatment agreement; refrain from informing others, etc.;	(Combo strategles: e.g. kick start & avoid noon dosing → Ritalin SR <u>gam</u> + small Ritalin IR dose <u>gam;</u> "rebound" → Ritalin SR <u>gam</u> + small Ritalin IR dose late afternoon)	(27-39)
		consider long-acting stimulant or non-stimulant).	Ritalin no sub is typically \$15-30 more than generics/month; may crumble less when tabs split, but ha	
Methylphenidate BIPHENTIN $\chi \otimes$	See Methylphenidate above	√ ADHD age ≥ 6yr (somewhat lower cost for once daily) Duration: 10-12hr (long-acting)	Peds: 10mg qam / 30mg qam (60mg/d) Titrate 10mg q7d	31 / <mark>66</mark> (114)
$\frac{1}{0, 15, 20, 30, 40, 50, 60, 80 \text{mg}}$ cap		Capsules should be swallowed whole & must never be	Adolescents: 10mg qam / 40mg qam (80 mg/d) Titrate 10mg q7d	31 / <mark>82</mark> (146)
fultilayer-release delivery system:		crushed or chewed. Contents may be sprinkled on these soft foods: apple sauce, ice cream or yogurt.	Adults:	31 / <mark>114</mark> (146)
0% immediate, 60% gradual	Saa Mathulphanidata abayay taklat daa act share is abayay a Citizat		10mg qam / 60mg qam (80 mg/d) Titrate 10mg q7d Peds: 18mg qam / 36mg qam (54mg/d) Titrate 18mg q7d	`
Tethylphenidate CONCERTA ⊗ C	See Methylphenidate above; tablet does not change in shape in GI tract ightharpoonup by the should not be administered to pts with pre-existing GI narrowing Dx (e.g.	√ ADHD age ≥ 6yr Duration: 8-12hr (long-acting)		80/ 103 (125)
3, 27, 36, 54mg tab	small bowel inflammatory dx, "short gut" syndrome, hx of peritonitis, cystic fibrosis, intestinal pseudo-obstruction, or Meckel's diverticulum).	Swallow whole with liquids; tablet shell may be in stool.	Adolescents: 18mg qam / 54mg qam (54 mg/d) Titrate 18mg q7d	80 / 125 (125
smotic release oral system OROS:	Dose conversion: Methylphenidate 5mg bid/tid or 20mg SR od → 18mg qam	Non-deformable shell makes it very difficult to break, cut or crush, which may dramatically ↓ its abuse risk	Adults: 18mg qam / 54mg qam (108 mg/d) Titrate 18mg q7d	80 / 125 (243)
22% immediate, 78% gradual	Methylphenidate 10mg bid/tid or 40mg SR od→ 36mg qam		** <u>Full formulary</u> SK July/08 in effort to	
{SK Formulary: max \$15/Rx for age ≤14yrs as of Jul/08}	Methylphenidate 15mg bid/tid or 60mg SR od→ 54mg qam (A 27 mg is avail for Drs to prescribe between 18 mg & 36 mg dosages)	(If inadequate immediate effects and/or effects too prolonged esp. at high doses → consider Biphentin)	↓ stimulant abuse & diversion** To get one responder after 6weeks: Concerta NNT=3 vs Strattera NNT=5 Newcom ¹⁰⁸ n=516	
ior ago = 11/10 as of dailoof	C a manufacture of the manufactu	• ,	To got one responder ditor emecia. Contesta 1911 - 5 vs ottaticia 1911 - 5 via	

NON-STIMULANT / SELECTIVE NOREPINEPHRINE REUPTAKE INHIBITOR Consider if									
tomoxetine √core ADHD Sx by at least ~25% in ~65% of pts after 6-12 weeks of Tx. Consider if non-responsive/Cls to stimulants, co-morbid substance abuse, anxiety, tics; or stimulant SE (mood lability, tics)									
tomoxetine Approved 2005	Common: Headache ~20%, insomnia 16%, xerostomia>10%, abdominal pain 20%, vomiting ~10%, ↓appetite ~10%, nausea 12%,	$\sqrt{\text{ADHD age}} \ge 6 \text{ yrs}$ Duration: 24hrs (long-acting) Swallow capsules whole; do not open (GI irritation)	Peds: 10mg 0.5mg/kg/d / 25mg qam 1.2mg/kg/d (Lower of 1.4 mg/kg/d or 60mg/d) Titrate 0.8mg/kg/d at week 2 & 1.2mg/kg/d at week 4 -slower titration to ↓SE						
TRATTERA	cough 11%; mild ↑BP -5% & HR 3,% fatigue 6%, ↓weight 2%, urinary hestation {↑isk of vomiting & somnolence 7% vs MPH-IR; but ↓appetite concern. Poor 2D6 metabolizers have higher rates of ↓appetite}	hepatic CYP450 2D6 metabolism 5-10% are poor metabolizers † atomoxetine effect: fluoxetine, linezolid, MAOIs, paroxetine, quinidine; salbutamol † HR & BP	Adolescents: 18mg ^{0.5mg/kg/d} / 40mg qam ^{1.2mg/kg/d} (Lower of 1.4mg/kg/d or 100mg/d) Titrate 0.8mg/kg/d at week 2 & 1.2mg/kg/d at week 4 -slower titration to ↓SE	150/ 150 (290)					
cap can <u>not</u> be opened/sprinkled MOA: NE reuptake inhibitor]	Serious: liver toxicity rare, suicidal thinking 0.4%, blackbox warning, sudden death (see below), dyskinesia, seizures peds 0.2%; adults 0.1%, priapism rare MAOI within 14days; narrow angle glaucoma; symptomatic CV	M: weight, height, BMI; attention, hyperactivity, anxiety, worsening of aggressive behaviour or hostility; BP & HR (baseline & following ↑dose & during Tx), emergence of	Adults: 25mg ^{0.5mg/kg/d} / 60-80mg qam ^{1.2mg/kg/d} (Lower of 100mg/d or 1.4 mg/kg/d)	150/ 150-290 (290)					
K: if EDS [®] approved, max \$15/Rx for age ≤14yrs as of Jul/08}	Dx; ↑BP; advanced arteriosclerosis; uncontrolled hyperthyroidism	irritability, agitation, changes in behaviour, & suicidal ideation, esp. during initial months of Tx or if \uparrow dosage.	Titrate 40mg, 60mg, 80mg & max 100mg q14days (slower titration will ↓SE or divide dose bid)	same price/ cap					
Precautions: suicidal ideation/clinical worsening → ↑risk in kids during first few months of Tx or after ↑dose; behavioral changes eg. aggression & hostility → may be precursor to suicidality; orthostatic hypotension → use cautiously; CV disease (CAD, MI, BP, cardiomyopathy, arrhythmias, QT syndrome)→ risk ↑BP/↑HR & sudden death; jaundice or liver injury → risk of liver failure/transplant; psychotic or bipolar/manic Sx → hallucinations, delusional thinking or mania may emerge.									

	ov alsouse (or is), this is a second country of the control of the							
Age	Agents WITHOUT Official Indication for ADHD:							
	ric / TRADE / form	Role in ADHD Adv: Advantages Dis: Disadvantages	Side effects SE / Drug Interactions DI / Comments	Dose				
Bup	ropion SR	Moderately effective for improving the core Sx of ADHD	SE: insomnia, headache, constipation, N/V, nervousness, dizziness, sweating,	SR tab: Peds: 3-6 mg/kg/day; single dose not > 150 mg				
WEI	LBUTRINg	Adv: no abuse or diversion risk, not assoc. with rebound hyperactivity, \downarrow cost, useful in	↑BP, ↑HR, tics, suicidal ideation, seizures 0.5-1%. ↑Seizure with doses > 300 mg/day.	100-150mg bid ^{2-3 mg/kg/day} ; single dose ^{not > 150 mg} ; max 450mg/d				
(100,1	50mg SR tab)	ADHD pts with comorbid depression &/or nicotine use.	DI: CYP2D6/3A4 Inducers e.g., carbamazepine, phenytoin, rifampin may ↓bupropion level	XL tab: 10				
	00mg XLtab) 🖣 ⊗ 🦓	Dis: 2-4 weeks before effects seen; safety in combo with other ADHD meds not proven.	& ↑ level of hydroxybupropion active metabolite. ↑venlafaxine/TCAs eg imipramine,	Initial: 150mg XL once daily				
	epressant [MOA:†DA,NE]	Swallow tablets whole with fluids, & not to chew, divide, or crush	desipramine, nortriptyline levels by bupropion. MAOI ^{↑ serotonin Sx}	Usual: 150-300mg XL once daily				
	idine CATAPRES g	↓ aggression, impulsivity, ↑arousal & ↑activity, but not benefit: inattention or ↓concentration	SE: ↓BP, sedation & dizziness initially; dry mouth; may ↑ depression.	Peds: Usual dose in children: 5-8μg/kg/day; may divide dose				
0.1, 0.	2mg tab α ₂ -agonist	As an adjunct: When used concurrently with stimulants, to target sleep disruptions,	DI: Avoid use with TCAs. Additive effects with other CNS depressants.	Initial 0.05–0.1 mg/day				
	ARIT , g 0.025 mg tab	aggression, impulsivity, comorbid oppositional defiant disorder & tics.	Caution: CV disease/depression; 2 deaths on MPH & clonidine reported but	Usual dose in adults: 0.05 – 0.4 mg /day				
ъ.		Guanfacine → available through Health Canada's Special Access Program	recent RCT showed clonidine ± MPH to be safe in childhood ADHD 11	D :				
	oramine [MOA: ↑NE]	TCAs: 1, 12 less effective than stimulants at ↓ core ADHD Sx.	SE: sedation, dizziness, constipation, heart block (check ECG), ↑ weight,	Desipramine 6–12 y: 10–20 mg/day; adolescent: 30–50 mg/day;				
	50,75,100mg tab r amine	Beneficial in some pts who cannot take stimulants, atomoxetine or bupropion, or if a	overdose toxicity, ↑ HR; sudden death in kids Tx with TCAs reported	(Peds: 2-5 mg/kg/day; Adult dose: 100-300 mg/day). Imipramine 6–12 y: 10–20mg/day; adolescent: 30–50 mg/day;				
	50; 75 ^X mg tab	concurrent tic Dx, enuresis, sleep problems, anxiety or depression. Adv: no abuse potential, not associated with rebound hyperactivity ⁶	DI see RxFiles Antidepressants DI chart. Caution: avoid in pts with a hx of cardiac conduction disorder, urinary	max 150 mg/day) (may divide dose)				
	riptyline 10, 25mg cap	Dis: 3-4 weeks before effects seen, risk of overdose, CV side effects	retention, seizure disorders or hyperthyroidism.	Nortriptyline 6–12 y: 10–20mg/day; Adolescent: 30–50mg/day;				
	clic antidepressants	Combos with other ADHD meds can be made but referral to ADHD specialist is advised	Monitor: HR, BP, cardiac exam, weight:baseline \rightarrow q3-6month while on TCA	max 150mg/day (may divide dose)				
Rispe	ridoneRISPERDALg	Systematic review: lack of quality evidence. 13 Little effect on inattention.	SE: Weight gain, drowsiness, headache, orthostatic hypotension,	Initial: 0.25–0.5mg hs; \tag{weekly by 0.5 mg/day}				
	5 ^c ,1,2 ^c ,3 ^c ,4 ^c mg tab;	As an adjunct: to target aggressive , 1 impulsive or if hyperactive when stimulants alone are	dyspepsia, dose-related extrapyramidal effects; hyperprolactinemia,	Usual maintenance dose 0.75–1.5 mg/day				
	not generally for ADHD}	ineffective/not tolerated; to \downarrow behaviours in kids with comorbid conduct Dx, oppositional	may negatively affect cognition in pts with ADHD	5 ,				
1mg/ml	melts 0.5,1,2,3,4 mg tab; soln; Antipsychotic	defiant Dx, autistic Dx, impulse control Dx & Tourette's Sx. May ↑ compliance						
	afanil ALERTEC g 4	For narcolepsy, but some evidence modafinil is superior to placebo in ↓core ADHD Sx kids& adults.	SE: headache, nausea, rhinitis & anxiety & rare psychiatric Sx	Adult: 100mg BID \$70/month; max 400mg/day				
	tab ^{a▼} ; (Provigil in US)	Adv: mild abuse potential; samples avail. & anecdotally a weaker stimulant effect & ↓ SE's	Caution: Serious skin reaction, including erythema multiforme,					
	timulant non-controlled substance	Dis: serious skin rx ; not ADHD approved; SE when combined with stimulants ^{e.g.↑BP}	Stevens-Johnson syndrome, & toxic epidermal necrolysis reported. 14					
				0				

PREVALENCE: worldwide prevalence 5% 15, 3-7% of children 16, 4% of adults 4; boys > girls (9:1 to 2.5:1) 10 SYMPTOMS: Core Sx: inattention, hyperactivity, impulsiveness. Other: impaired behavioural, cognitive, academic, emotion &/or social.

COMORBID/ RESEMBLING CONDITIONS: age-appropriate behaviour, mental retardation, understimulating environments, learning disabilities; disorders {conduct, oppositional defiant, stereotypic movement, mood (e.g. bipolar), anxiety, personality (e.g. narcissistic, antisocial, borderline, passive-aggressive personality), substance-related, pervasive developmental, psychotic, depression, of impulse control}; chronic fatigue, fetal alcohol syndrome, hyper- or hypothyroidism, drug/substance-induced (see below), OCD, pathological gambling, pheochromocytoma, PTSD, seizure, situational disturbances, Tourette's¹⁷⁻¹⁸

DRUG/SUBSTANCE-INDUCED: bronchodilators, caffeinism, isoniazid, lead poisoning, neuroleptics (from akathisia), phenobarbital, phenytoin ¹⁹⁻²⁰

DIAGNOSIS: a) Inattentive subtype (10-20%): ≥ 6 (of 9) inattentive Sx: inattention to details/makes careless mistakes, difficulty sustaining attention, seem not to listen, fail to finish tasks, difficulty organizing, avoid tasks requiring sustained attention, lose things, easily distracted, forgetful;
b) hyperactive-impulsive subtype (5-10%): ≥ 6 (of 9) hyperactive-impulsive Sx: fidgety, unable to stay seated, inappropriate running/climbing, difficulty engaging in leisure activities quietly, "on the go", talks excessively, blurt out answers before question finished, difficulty waiting turn, interrupt/intrude others;
c) combined subtype (70-80%): if criteria met for both inattentive & hyperactive-impulsive subtypes. ADHD Sx must: persist for ≥ 6months, present prior to age 7, & present in ≥ 1 setting. Evidence of significant impairment in social, academic or occupational fx. Sx not explained by another mental dx.

SCREENING Tools: http://www.caddra.ca/ Tx GOALS: ↓ core Sx; improve behaviour, academic, social & self-esteem; minimize med SE

SCREENING TOOIS: SNAP-IV, T-CAPS, Weiss Symptom Screen, Weiss Functional Impairment Rating Scale; psychoeducational testing. Tools: http://www.caddra.ca/ Tx GOALS: \(\psi \) core Sx; improve behaviour, academic, social & self-esteem; minimize med SE NON-DRUG Interventions: \(\frac{\text{behavioural therapy}}{\text{many one of the modes}}\) may be considered: for milder ADHD; when psychosocial Tx preferred; in preschool-age children; & adult ADHD & comorbid dxs, behavioural therapy alone was less effective than meds alone in \(\psi \) ADHD core Sx. \(\frac{\text{24}}{\text{Combined}}\) medication & behavioural Tx do not offer substantial improvement over meds alone in \(\psi \) ADHD Sx, but may add benefit for some non-ADHD Sx areas \(\frac{252627728}{\text{cond}}\); (eg. parent training, contingency management, daily school report cards) environmental interventions, e.g adherence to regular daily schedules,

structured home & school settings, sitting at the front of the classroom, using white noise during homework time; role for academic remediation, social skills training, etc.; diet modifications has limited anecdotal evidence supporting benefits but \$\foot\ additives, preservatives (eg. sodium benzoate) & food colourings may be useful if true sensitivities; complementary & alternative medicine lack evidence: a natural health products (St. John's Wort, chamomile, melatonin, valerian for calming/sedating; others: blue-green algae, B vitamins, pycnogenol, omega-3), homeopathy, neurofeedback, hyponosis.

CARDIAC Risk: 45 deaths** (31 kids, 14 adults), Jan 1992 to Feb 2005, related to stimulants or atomoxetine. But the rate of sudden death in those taking psychostimulants or atomoxetine did not exceed the background rate. In the rate of sudden death in those taking psychostimulants or atomoxetine did not exceed the background rate.

AHA cardiovascular guidelines suggest: prior to linking atomoxetine 0.4%, 55 Canadian cases reported. Although risk is small, it should be discussed with pts & family, & kids should be monitored for this esp. in the first few monitor of Tx to \$\frac{1}{2}\$ Aggression/emotional lability. Stimulants & atomoxetine 0.4%, 55 Canadian cases reported. Although risk is small, it should be discussed with pts & family, & kids should be monitored for this esp. in the first few monitor of Tx. 10 \$\frac{1}{2}\$ Aggression/emotional lability. Stimulants & atomoxetine 0.4%, 55 Canadian cases reported. Although risk is small, it should be discussed with pts & family, & kids should be monitored for this esp. in the first few monitor of Tx. 10 \$\frac{1}{2}\$ Aggression/emotional lability. Stimulants & atomoxetine trials show not \$\frac{1}{2}\$ aggression/emotional lability. Stimulants & atomoxetine trials show not \$\frac{1}{2}\$ Aggression/emotional lability.

Clinicians should distinguish between aggression/ emotional lability that is present when the stimulant is active & \(^\text{hyperactivity/impulsivity}\) in the evening when the stimulant is no longer effective.\(^5\text{Note: oppositional-defiant Sx usually decrease with therapy.}\)

GROWTH Suppression Risk: Stimulant Tx may be assoc. with a \(^\text{in height}\), at least in the first 1-3 yrs of Tx.\(^3\text{Cone study had }\) of

Most kids achieve a satisfactory adult height but some growth may be permanently attenuated. Monitor: ht, wt & BMI at baseline & 1-2 times/yr during Tx. If pt has a change in height, weight or BMI that crosses two percentile lines, a drug holiday during weekends, summers or consider switching to an alternative med. MISUSE/DIVERSION: Lifetime diversion rates: 16-29% of students with stimulant scripts asked to give, sell, or trade their meds. Strategies to ↓ risk → see ADHD Newsletter/Treatment Agreement. Stimulant Tx does not appear to ↑ risk for substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the formal substance use Dx. It is unclear whether Tx ↓ risk. Signature of the

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