

# Maryland Behavioral Health Integration in Pediatric Primary Care (MD BHIPP)

Managing Side Effects of Psychiatric Medications in Pediatric Primary Care: practical tips and clinical pearls

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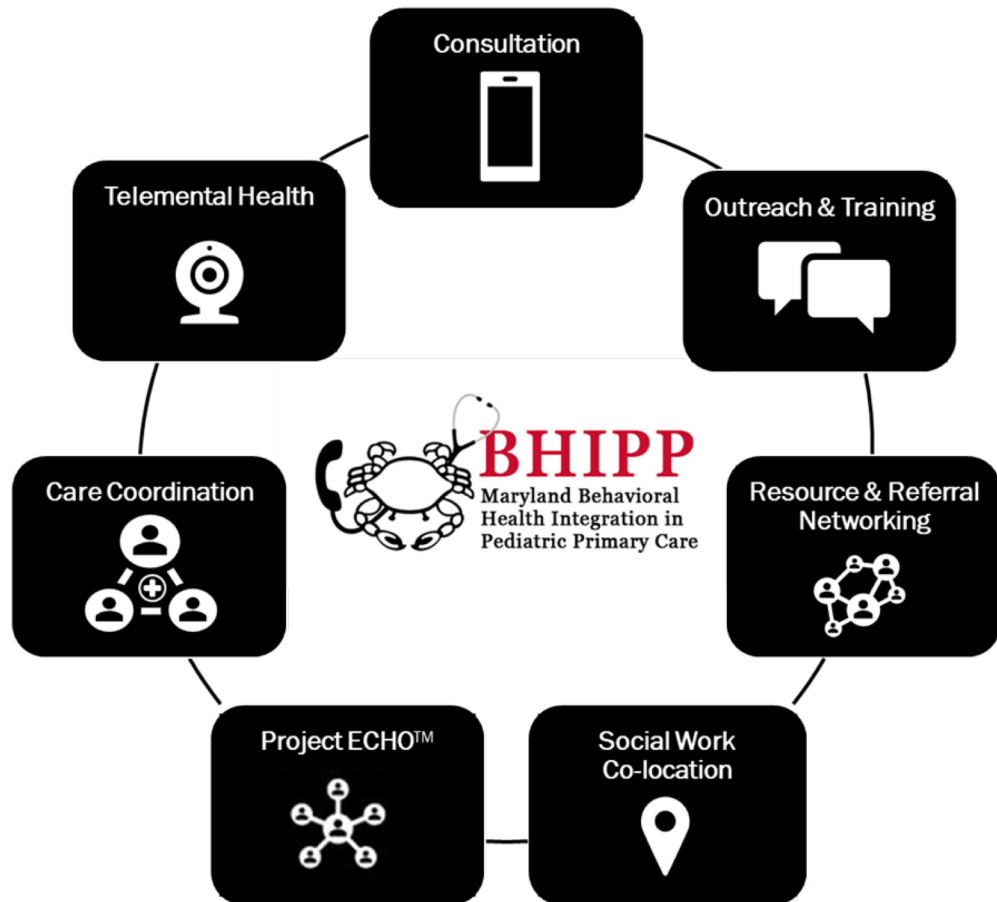


1-855-MD-BHIPP (632-4477)

[www.mdbhipp.org](http://www.mdbhipp.org)

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# Who We Are – Maryland BHIPP



## Offering support to pediatric primary care providers through free:

- Telephone consultation (855-MD-BHIPP)
- Resource & referral support
- Training & education
- Regionally specific social work co-location (Salisbury University and Morgan State University)
- Project ECHO®
- Direct Telemental health services
- Care coordination



# Partners & Funding

- BHIPP is supported by funding from the **Maryland Department of Health, Behavioral Health Administration** and operates as a collaboration between the **University of Maryland School of Medicine**, the **Johns Hopkins University School of Medicine**, **Salisbury University** and **Morgan State University**.
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# Disclosures

- Mark Riddle- Employee of Johns Hopkins School of Medicine, receives funding BHIPP
- Sarah Edwards- Employee University of Maryland School of Medicine, receives funding for BHIPP

# Learning Objectives

In children and adolescents, be able to:

1. Identify and manage side effects of medications for ADHD
2. Identify and manage side effects of medications for anxiety and depression
3. Identify and manage side effects of other medications for psychiatric disorders

# The Side Effects Dilemma



Too many medications



Too many side effects



Limited time



Limited reimbursement

# Other Similar Dilemmas

- Number of Preparations for ADHD
  - About 20 for methylphenidate
  - Over 15 for amphetamine
- Psychiatry's Diagnostic and Statistical Manual (DSM)
- Anxiety example:
  - Separation, Specific, Social, Generalized, Panic
  - Possible symptoms—Panic has 14
  - How many symptoms needed
  - Age of onset
  - Duration of symptoms
  - Distress and Impairment



# What To Do? Keep It Simple without Dumbing It Down

Reduce	Reduce number of medications needed to provide quality care
Prioritize	Prioritize medications with the best side effect profiles
Try 1st	Try first choice medication
Try 2nd	If needed, try second choice medication
Consider	If both fail, consider consult with BHIPP



# Reducing Number & Prioritizing Medication

# The Problem: Too Many Meds

- There are **>110** psychotropic medications available for prescribing worldwide (see App for ECNP’s “Neuroscience-based Nomenclature [NbN]”)
- Most of these medications are FDA-approved for adults in the U.S.
- This large number of medications can be overwhelming, even for experienced specialists
- Thus, the proposed conceptual framework focuses on a ***small group of safe and effective medications***

# Conceptual Framework

## Medications prioritized by:

- Safety
- Efficacy

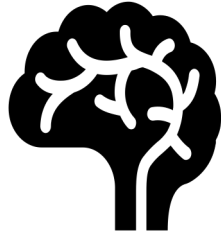
## Secondary priorities:

1. Prescriber comfort  
(i.e., FDA approval)
2. Convenience  
(i.e., once daily dosing)
3. Cost  
(i.e., generic available)

# Conceptual Framework



## Rationale



## Group 1

ADHD: 2 stimulants, 2  
alpha-2 adrenergic  
agonists, 1(2) NRIs

Anxiety and  
Depression: 3(4) SSRIs,  
1 SNRI



## Group 2

Psychosis, Mania,  
“Irritability in  
ASD”: 6 SGAs, 1  
TGA, lithium



## Group 3

10 Other  
Medications



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## Evidence of Efficacy

- There is no single “gold standard.”
- The FDA requires separation from placebo in 2 well-designed, randomized clinical trials.
- Because studies in youth are rare, the FDA sometimes accepts one high-quality study.
- This approach is used by the *GRADE Work Group* to evaluate treatments in youth.



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## Evidence of Safety

### 5 Parameters

FDA Approval in Youth

- Requires evidence of *short-term safety*

Sufficient Exposure (10+ Years on Market)

- Minimizes risk of *rare* adverse events

No Substantive FDA Boxed Warning

- Reduces likelihood of *serious* adverse event

Minimal Overdose Harm

- Reduces risk of *accidental/intentional harm*

No/Minimal Known Long-Term Risk

# FDA and Adverse Effects (fluoxetine 10/21)

## Boxed Warnings

- Suicidal thoughts and behaviors

## Contraindications

- Serotonin syndrome with MAOIs, pimozide & thioridazine (QT prolongation)

## Warnings and Precautions

- 14: all of considerable concern

## Adverse Reactions

- 22: Most common ARs (*>5% and at least twice that of placebo*)

## Drug Interactions

- MAOIs, drugs metabolized by 2D6, TCAs, CNS acting drugs, benzo's, APs, ACs, serotonergic drugs, drugs that interfere with hemostasis, protein bound
- Drugs@FDA: [www.accessdata.fda.gov](http://www.accessdata.fda.gov)

# Prozac (fluoxetine) W&Ps 1 & 2

- *Suicidal Thoughts and Behaviors in Children, Adolescents, and Young Adults*: Monitor for clinical worsening and suicidal thinking and behavior (5.1)
- *Serotonin Syndrome*: Serotonin syndrome has been reported with SSRIs and SNRIs, including PROZAC, both when taken alone, but especially when co-administered with other serotonergic agents (including *triptans*, tricyclic antidepressants, fentanyl, *lithium*, tramadol, *tryptophan*, *bupirone*, *amphetamines*, and *St. John's Wort*).
  - If such symptoms occur, discontinue PROZAC and initiate supportive treatment.
  - If concomitant use of PROZAC with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases (5.2)



# Antidepressants & “Suicidality”

“Suicidality” = ideation &/or attempt

FDA 2006 (4,300): 4% vs 2% = 2%

Larger data set (5,000) = 0.7%(1/133)

Largest data set (6,000) = 0.9% (N.S.)

Conclusion: Real in about 1%

- Probably due too behavioral activation
- *Monitoring = Safety*
- *NOTE: due to paroxetine & venlafaxine?*

# Serotonin Syndrome\*

GI: nausea, vomiting, diarrhea

Mental Status: agitation, delirium, hallucinations, coma

Autonomic Instability: tachycardia, labile blood pressure, diaphoresis, hyperthermia, flushing, dizziness

Neuromuscular: tremor, hyperreflexia, rigidity, myoclonus, hyperreflexia, incoordination

\*5HTP supplements and tryptans for migraines common causative agents

# Prozac (fluoxetine) W&Ps 3 to 7

- *Allergic Reactions and Rash*: Discontinue upon appearance of rash or allergic phenomena (5.3)
- *Activation of Mania/Hypomania*: Screen for Bipolar Disorder and monitor for mania/hypomania (5.4)
- *Seizures*: Use cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold (5.5)
- *Altered Appetite and Weight*: Significant weight loss has occurred (5.6)
- *Abnormal Bleeding*: May increase the risk of bleeding. Use with NSAIDs, aspirin, warfarin, or other drugs that affect coagulation may potentiate the risk of gastrointestinal or other bleeding (5.7)

# Prozac (fluoxetine) W&Ps 8 to 12

- *Angle-Closure Glaucoma*: Angle-closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants (5.8)
- *Hyponatremia*: Has been reported with PROZAC in association with syndrome of inappropriate antidiuretic hormone (SIADH). Consider discontinuing if symptomatic hyponatremia occurs (5.9)
- *Anxiety and Insomnia*: May occur (5.10)
- *QT Prolongation*: QT prolongation and ventricular arrhythmia including Torsades de Pointes have been reported with PROZAC use. Use with caution in conditions that predispose to arrhythmias or increased fluoxetine exposure. Use cautiously in patients with risk factors for QT prolongation (4.2, 5.11)
- *Potential for Cognitive and Motor Impairment*: Has potential to impair judgment, thinking, and motor skills. Use caution when operating machinery (5.13)

# Prozac (fluoxetine) W&Ps 13 & 14

- *Long Half-Life*: Changes in dose will not be fully reflected in plasma for several weeks (5.14)
- XXXXXXXXXXXXPROZAC and Olanzapine in Combination: When using PROZAC and olanzapine in combination, also refer to the Warnings and Precautions section of the package insert for Symbyax (5.16)
- *Sexual Dysfunction*: PROZAC may cause symptoms of sexual dysfunction (5.17)

# Prozac (fluoxetine) Most Common Adverse Reactions

Most common adverse reactions ( $\geq 5\%$  and at least twice that for placebo) associated with:

- *Major Depressive Disorder, Obsessive Compulsive Disorder, Bulimia, and Panic Disorder*: abnormal dreams, abnormal ejaculation, anorexia, anxiety, asthenia, diarrhea, dry mouth, dyspepsia, flu syndrome, impotence, insomnia, libido decreased, nausea, nervousness, pharyngitis, rash, sinusitis, somnolence, sweating, tremor, vasodilatation, and yawn (6.1)

# Discontinuation Syndrome\*

- Flu-like symptoms
- GI symptoms – nausea, vomiting, diarrhea

- 
- Dizziness, vertigo
  - Tingling/numbness

- 
- Sleep disruption
  - Anxiety, agitation
  - Irritability, low mood

**\*Taper, except fluoxetine**



# Group 1 Medications

## Anxiety Disorders

Drug (mode of action)	Indication(s)	FDA Approval/ Approved Age	Level of Evidence	Generic
<b>Fluoxetine (SSRI)</b>	ANX OCD	No Yes; $\geq 7$	B A	Yes
<b>Sertraline (SSRI)</b>	ANX OCD	No Yes; $\geq 6$	B A	Yes
<b>Fluvoxamine (SSRI)</b>	ANX OCD	No Yes; $\geq 8$	B A	Yes
<b>Duloxetine (SNRI)</b>	Generalized Anxiety	Yes ( $> 6$ )	A/B	Yes



# Group 1 Medications

## Major Depressive Disorder (MDD)

Drug (mode of action)	Indication(s)	FDA Approval/ Approved Age	Level of Evidence	Generic
<b>Fluoxetine (SSRI)</b>	MDD	Yes; $\geq 8$	A	Yes
<b>Escitalopram (SSRI)</b>	MDD	Yes; $\geq 12$	A	Yes

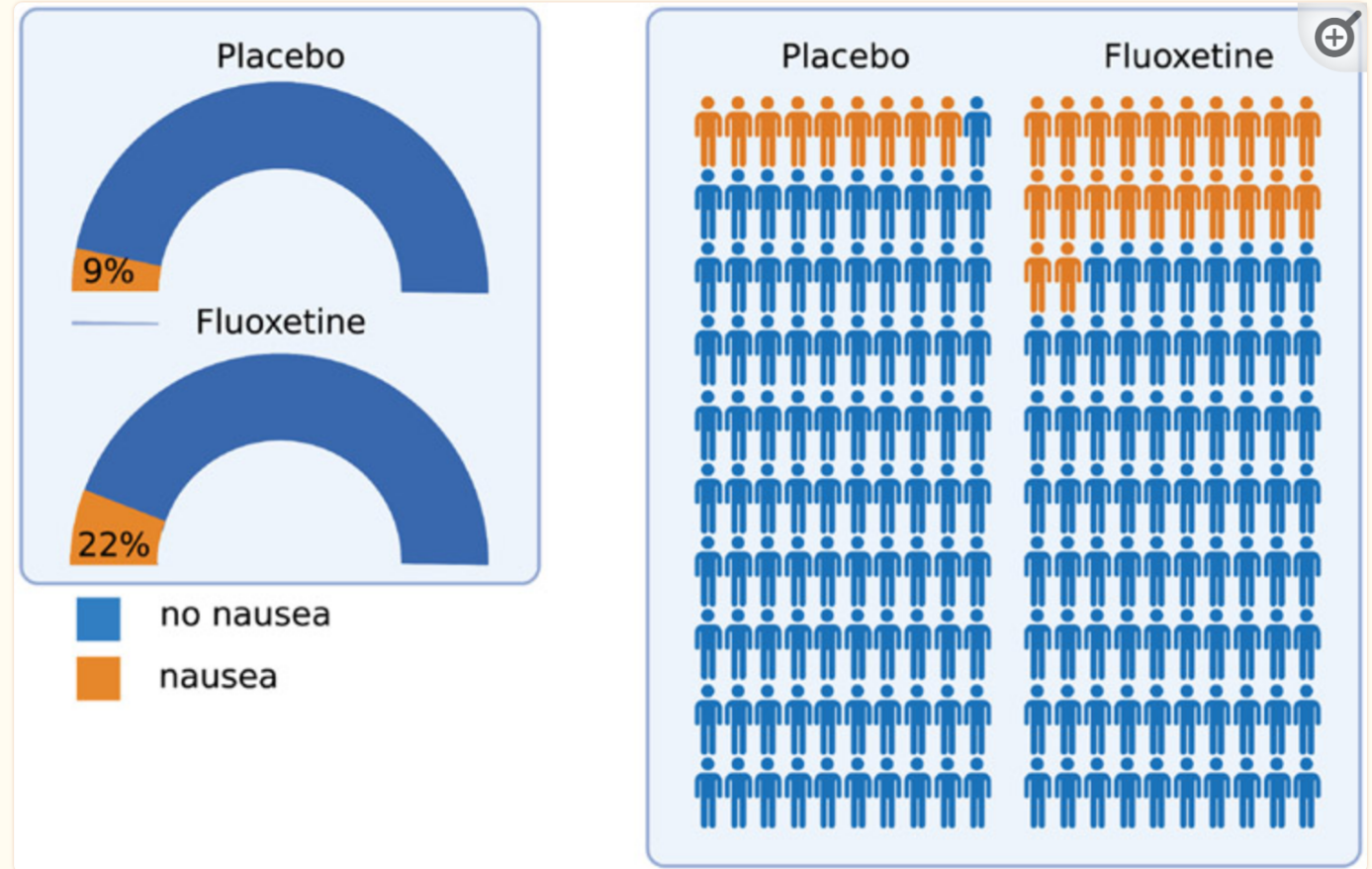
The image features a vibrant blue background with a large, glowing yellow lightbulb on the right side. The lightbulb has several yellow rays emanating from it, suggesting it is turned on. The text 'HELPFUL TIPS' is prominently displayed in the center-left. 'HELPFUL' is in white, bold, uppercase letters, and 'TIPS' is in orange, bold, uppercase letters. The background also includes some white plus signs and a light blue circular shape on the left side.

HELPFUL

TIPS

SSRIs

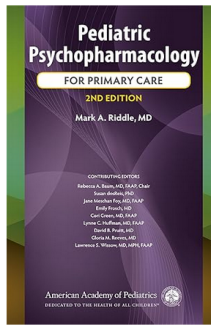
# How Risk is Presented



**FIGURE 2**

Alternative Approaches to Visualizing Adverse Effects. In contrast to presenting relative rates, odds ratio, or bar graphs, adverse effects can be visually presented relative to the population of antidepressant-treated patients and the comparison group to provide more context. Modified gauges (left) and a pictogram (right) show the incidence of nausea (based on rates in the package insert) for fluoxetine-treated patients across registration trials. *Figure created using [BioRender.com](https://www.biorender.com)*

# Talking with Patients and Family about Safety



- Many healthy children do not have side effects of SSRIs
- SE are reversible if the medication is decreased or discontinued
- Most common SE are upset stomach/nausea, which occur soon after med is started/increased. Often subsides in a few days
- Agitation or behavioral activation can be common with dosage increases, usually subsides over a few days
- Less common SE are disrupted sleep. Daytime sleepiness, fatigue, or tremor
- Adolescents may have increased sweating, decreased sexual desire or delayed orgasm
- Suicidal thoughts/behaviors can emerge during recovery from depression; 1 in 100 to 150 patients taking med vs placebo develop; education and safety plan

# Main Side Effects of SSRIs

## EARLY-EMERGING SIDE EFFECTS

GI Symptoms, Insomnia, Tiredness,  
Activation







## PERSISTENT OR LATE-EMERGING ADVERSE EFFECTS

Weight gain, Xerostomia, Sexual Dysfunction,



# Reversible Side Effects of SSRIs

- GI discomfort, nausea,  Take with food, take before bed
- Insomnia  Take in the morning
- Daytime sedation, tiredness  Take in evening
- Behavioral activation.....suicidality 
  - more common in younger children
  - agitation, restlessness, insomnia, impulsivity
  - behavioral disinhibitionStart low, go slow, lower dose, slow titration

# Antidepressant-associated weight gain

- For SSRI-treated youth, weight gain can emerge early or late and may persist.
- The two SSRIs associated with the most weight gain in prospective studies of youth with anxiety and depressive disorders are paroxetine and citalopram.



# Effect of antidepressant drugs on body weight

# ADULTS

DRUG	EFFECT ON WEIGHT
<b>Monoamine oxidase inhibitors (irreversible type)</b>	Weight gain likely in short term (< 6 months) and long term ( $\geq 1$ year)
<b>Tricyclic compounds</b>	Weight gain likely in short term and long term
<b>Selective serotonin reuptake inhibitors (SSRIs) other than paroxetine</b>	Weight gain in short term less likely Weight gain in long term possible, but evidence is varied
<b>Paroxetine</b>	Weight gain in short and long term more likely than for other SSRIs
<b>Nefazodone</b>	Likely to have no effect on weight
<b>Bupropion</b>	Likely to cause weight loss
<b>Mirtazapine</b>	More likely than placebo to cause weight gain in short term, but less likely than tricyclics
<b>Venlafaxine</b>	Likely to have no effect on weight



# What to do...

- Monitor diet and exercise
- Patients may benefit from a nutritional consultation
- Maintaining a food diary and behavioral techniques such as increasing meal frequency, smaller meals, or decreasing the pace of eating can help.
- Switching to another drug with a lower risk of weight gain is an alternative approach, although this carries a risk of loss of clinical effect.
- In adults: addition of another agent such as a stimulant (methylphenidate, amphetamines), bupropion, may help diminish weight gain.



# Dry Mouth Xerostomia



- Water, sugarless candy, chewing gum
- Avoid caffeine/alcohol,
- Use non-alcoholic mouth wash

# We must ask about Sexual Side Effects!

Have you experienced a change in libido (sexual desire, thoughts, interest)?

Have you noticed a change in orgasm since starting the medication, such as a delayed orgasm or not able to achieve one?

Have you had difficulties obtaining an erection?



# If Experiencing Sexual Side Effects:

Low sexual desire: switching to a non-serotonergic drug, lowering the dose, or associating bupropion

Unwanted orgasm delayal or anorgasmia: dose reduction, “weekend holiday”, or switching to a non-serotonergic drug

Erectile dysfunction: switching to a non-serotonergic drug



# ADHD Medications Stimulants

# Group 1 Medications

## ADHD

Drug (mode of action)	Indication	FDA Approval/ Approved Age	Level of Evidence	Generic
<b>Methylphenidate</b> (stimulant)	ADHD	Yes; $\geq 6$	A	Yes
<b>Amphetamine</b> (stimulant)	ADHD	Yes; $\geq 6$ (3)	A	Yes
<b>Guanfacine</b> ( $\alpha$ -2 adren. agonist)	ADHD	Yes; $\geq 6$	A	Yes
<b>Clonidine</b> ( $\alpha$ -2 adren. agonist)	ADHD	Yes; $\geq 6$	A	Yes
<b>Atomoxetine</b> (NRI)	ADHD	Yes; $\geq 6$	A	Yes

# Stimulant Delivery Systems

<u>Preparation</u>	<u>Time (hrs)</u>	<u>Methylphenidate</u>	<u>Amphetamine</u>
▪ IR	3-4 4-6	Ritalin Focalin	Adderall/EVEKEO ZENZEDI (d-amphetamine)
▪ Pulse	7-8	Metadate ER APTENSIA XR ADHANSIA XR	Dexedrine Spansule MYDAYIS
▪ Pearls	8-12	Metadate CD Ritalin LA FOCALIN XR JORNAY PM	Adderall XR
▪ Pump	≤12	Concerta	
-----			
▪ Modified IR	≤12		VYVANSE
▪ Liquid/Chewable	3-5	Methylin/Methylphenidate	PROCENTRA/VYVANSE
▪ Disintegrating	4-6		EVEKEO ODT
▪ Liquid Susp.	8-12	QUILLIVANT XR	DYANAVEL XR ADZENYS ER
▪ Chewable/Disint	8-12	QUILLICHEW ER/CONTEMPLA XR-ODT	--- /ADZENYS XR-ODT
▪ Patch	≤12	DAYTRANA	

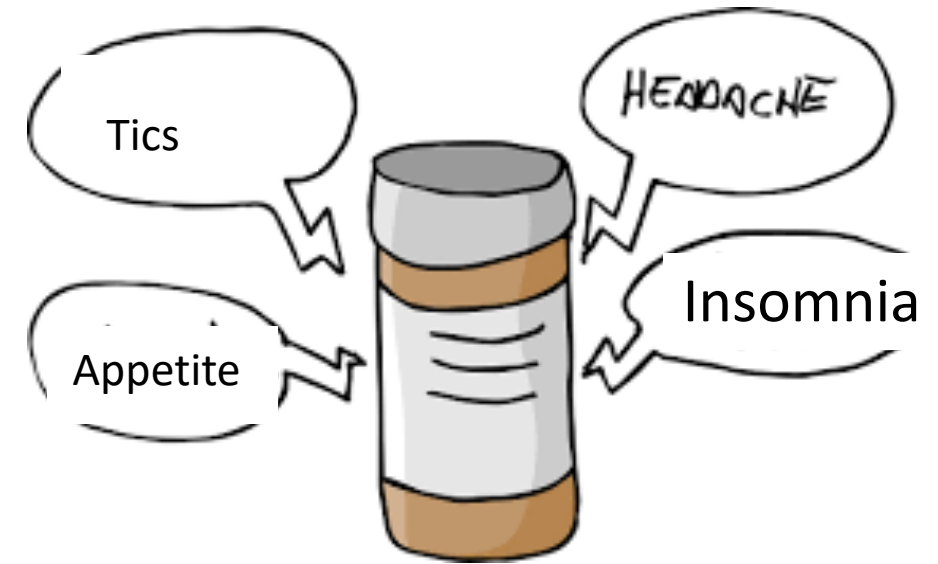
# Main Side Effects of Stimulants

## *Most Common*

- Abdominal pain
- Appetite suppression
- Difficulty falling asleep

## *Less Common*

- Growth suppression (recent FDA precaution)
- Dysphoria (preschoolers)
- Behavioral/cognitive constriction (high dose)
- Tics
- Hemodynamic (common and minimal)
- Cardiac (rare if structural abnormality)





# Possible Stimulant Adverse Effects



- Spacey/ too serious too quiet → Adjust dose, switch
- Rebound irritability → Add short-acting
  
- Tics → Risk/Benefit  
→ Lower dose  
→ Add alpha-agonist
  
- GI Upset → Eat before medication
- Headache → Hydration, food, switch



## Preschoolers

- PATS Study: simulants work in this age group, but not as well and young kids have more adverse effects
- Adverse events most frequently reported in the study:
  - Appetite decrease
  - Emotional outbursts & irritability
  - Difficulty falling asleep



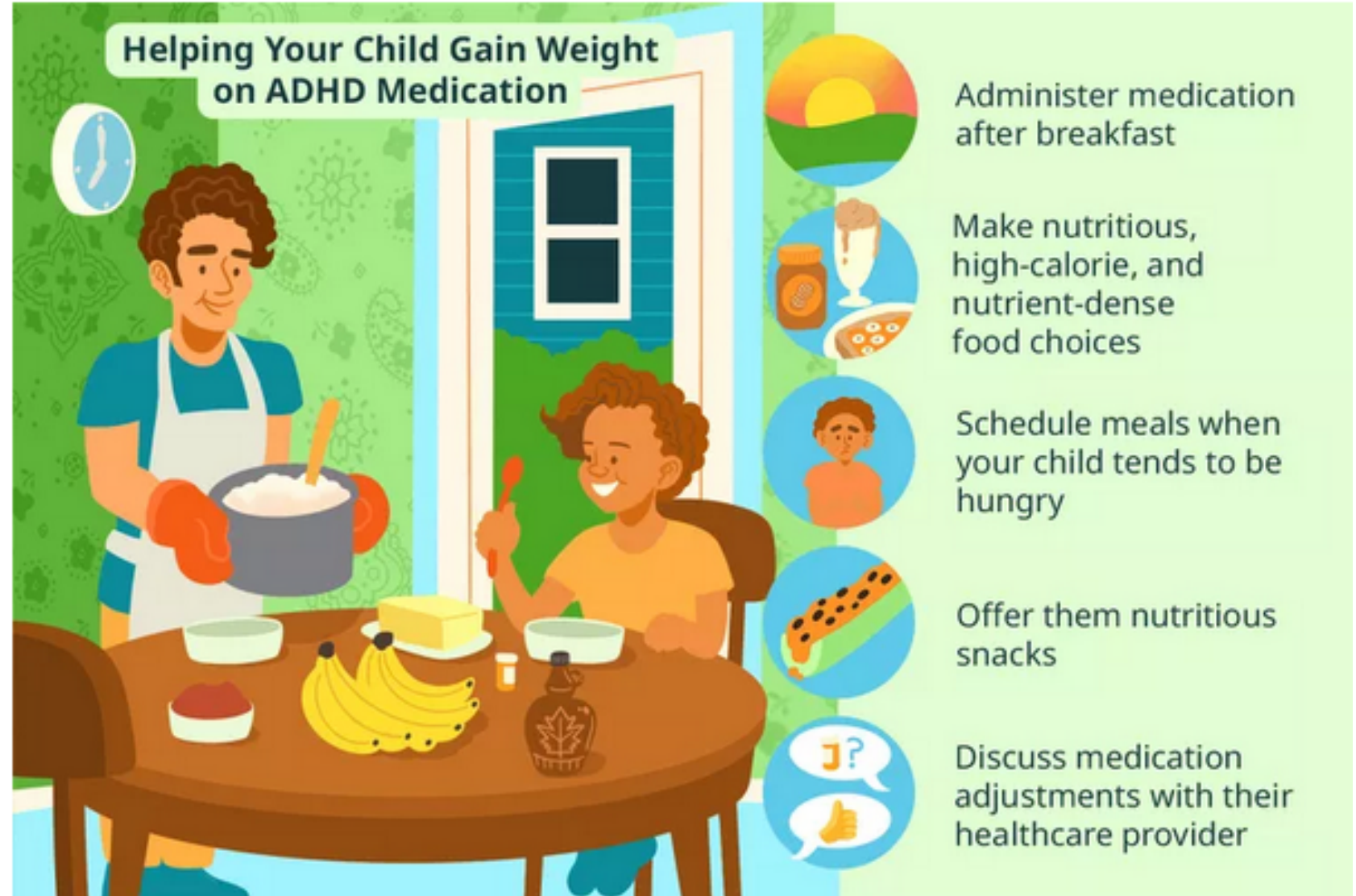
**HELPFUL!**

Decreased Appetite and Weight Loss  
Stimulants

**TIPS**

# Decreased Appetite / Weight Loss

- Initial loss, typically resolves
- Consider drug holidays



# Breakfast

- Add butter to things like oatmeal or grits.
- Add peanut butter to fruit (apples and bananas)
- Add cheese to eggs, use whole milk
- All drinks should be AFTER they finish eating.



# Lunch and Dinner

- Add butter to things like pasta, macaroni and cheese, potatoes, & vegetables.
- Add cheese to dishes or even a little extra cheese.
- Use regular salad dressing or cheese sauce on vegetables.
- All drinks should be AFTER they finish eating.



# Snacks

- Expect that your child may be able to eat up to 3 snacks day.
- Regular yogurt and cheese are good snacks.
- Fruit and vegetables can have peanut butter, salad dressing or hummus with it.



# Drinks



- Drink whole milk- no 1 or 2% or skim.
- You can add 1-2 spoonfuls of whipping cream to milk
- Extra supplements like Carnation Instant Breakfast or Pediasure. See website for flavor, types and recipes.  
<https://www.carnationbreakfastessentials.com/>
- DO NOT give juice or soda- this is bad for their teeth and just contains sugar.
- You can also try making shakes
- Milk or yogurt with fruit or peanut butter can be great combinations.



# EACH NUTRIENT-PACKED BREAKFAST DRINK PROVIDES

When prepared as directed with 1 cup of skim milk



Source-USDA FoodData Central: One large egg has 6.3 g protein. One 5.3 oz cup of Greek Yogurt contains 141 mg calcium. One 8 fl oz glass of skim milk contains 2.9 mcg vitamin D. One medium orange has 70 mg vitamin C.



As much  
**PROTEIN**  
AS TWO  
large eggs



As much  
**CALCIUM**  
AS THREE  
5.3 oz cups of Greek Yogurt



As much  
**VITAMIN D**  
AS THREE  
8 fl oz glasses of milk











As much  
**VITAMIN C**  
AS ONE  
medium orange



## Flavors!

Chocolate, Cinnabon, Coconut Caramel  
Frosted Flakes, Rice Krispies Treats, Thin Mints  
Cookie N' Crème, Vanilla, Strawberry

# Recipes- Mix it in!

 <p><b>Breakfast</b></p> <p><b>CHOCOLATE PROTEIN WAFFLES</b></p> <p>12 portions 15 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Snacks</b></p> <p><b>CHIA SEED PUDDING</b></p> <p>2 portions 10 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Breakfast</b></p> <p><b>FRENCH TOAST BAKE</b></p> <p>6 portions 25 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Breakfast</b></p> <p><b>BREAKFAST MUFFIN</b></p> <p>6 portions 30 min</p> <p><a href="#">OPEN RECIPE</a></p>
 <p><b>Drinks</b></p> <p><b>HOT CHOCOLATE BOMBS</b></p> <p>6 portions 45 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Breakfast</b></p> <p><b>CHOCOLATE PANCAKE</b></p> <p>4 portions 30 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Breakfast</b></p> <p><b>BREAKFAST YOGURT ICE POPS</b></p> <p>6 portions 25 min</p> <p><a href="#">OPEN RECIPE</a></p>	 <p><b>Breakfast</b></p> <p><b>BREAKFAST BAR</b></p> <p>6 portions 30 min</p> <p><a href="#">OPEN RECIPE</a></p>

The image features a vibrant blue background with a large, glowing yellow lightbulb on the right side, emitting yellow rays. The word 'HELPFUL' is written in large, white, bold, sans-serif capital letters. Below it, the word 'TIPS' is written in large, orange, bold, sans-serif capital letters. The text 'Insomnia / Sleep Issues' and 'Stimulants' is overlaid in white, sans-serif font. The overall design is clean and modern, with decorative elements like white plus signs and blue circles scattered around.

HELPFUL

Insomnia / Sleep Issues  
Stimulants



# Insomnia

- Consider changing medication timing/dosage
- Sleep Routine
- No electronics 1 hour before bed
- White noise machine or soft music for relaxation

# Insomnia Teens & Screens

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- Harm reduction approach to screens
- Passive use better than active use
- Smaller screen, less blue light
- Blue blocking glasses, or app



# ADHD Medications

## Alpha-Agonists



## Alpha-2 Adrenergic Agonists: Guanfacine and Clonidine

Developed as antihypertensives

Receptor subtypes:

- A prefrontal (attention, inhibition, memory)
- B baroreceptor (blood pressure & pulse)
- C striatum (activity?, stress response?)

Guanfacine: **specific** to A subtype

Clonidine: **nonspecific**: all 3 subtypes



# Dosing $\alpha$ -Adrenergic Agonists



	Guanfacine	Clonidine
Start	0.5-1.0*	0.05-0.1
Wkly increase	0.5-1.0	0.05-0.1
Max/day	4.0 or 7.0	0.4
Duration	24 hrs**	12 hrs (bid)**

\*Guanfacine dose is 10x higher

\*\* for long-acting preps Intuniv and Kapvay

# Guanfacine (Intuniv) Adverse Events

## Most Common\*:

- Somnolence
- Fatigue
- Lethargy
- Nausea
- Hypotension

# Clonidine (Kapvay) Adverse Events

## Most Common\*:

- Somnolence
- Fatigue
- Insomnia
- Nightmares, Irritability
- Others (emotional disorder, dry mouth)

## Warnings & Precautions for both:

- Hypotension, bradycardia, syncope
  - Sedation and somnolence
  - Cardiac conduction abnormalities (worsen sinus node dysfunction and atrioventricular block)
  - Abrupt withdrawal can cause rebound hypertension
- \* >5% and at least twice placebo rate (FDA definition)

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HELPFUL

TIPS

Alpha-Agonists

# Somnolence and Lethargy

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- Timing of medications- use to your advantage
- Can give the long acting in the morning or evening
- Can lessen with time



# Other Psychotropic Medications



**Call BHIPP!**

# Citations

- Strawn JR, Mills JA, Poweleit EA, Ramsey LB, Croarkin PE. Adverse Effects of Antidepressant Medications and their Management in Children and Adolescents. *Pharmacotherapy*. 2023 Jul;43(7):675-690. doi: 10.1002/phar.2767. Epub 2023 Jan 27. PMID: 36651686; PMCID: PMC10378577.
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