A D H D A Dire Halt in Distribution

PANDA webinar 12/11/25

Hendrike Mc Donald







Navigating ADHD -

Resources -Methylphenidate shortage guide -

MAKE A DONATION

Methylphenidate shortage updates

Locations

There is a worldwide shortage of methylphenidate ADHD medicine and there may be periods in 2025 where the brand you normally use isn't available. We understand how hard it is when you can't access the medicine you need, and Pharmac wants you to know they are doing everything they can to improve

MICHIGAN MEDICINE

s website. If you have any other

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/ Adderall shortage may be associated with increased use of alternative ADHD medication in kids

Adderall shortage may be associated with increased use of alternative ADHD medication in kids

Prescription fills for ADHD treatments among children aged 5-17 fell after pandemic but increased again; mixed trends seen amid medication shortage

January 27, 2025 11:37 AM Author | Beata Mostafavi > Cumbria, Northumberland,





NEWS



Attention-deficit hyperactivity disorder (ADHD) diagnoses are rising across Australia.



But after finally getting a diagnosis, many people are discovering the medicine they've been prescribed isn't available at the pharmacy.

Home > Services > Adult ADHD Service - CNTW208 > Shortage of medicines for ADHD (Attention Deficit Hyperactivity Disorder) - Information for patients, families and carers - Updated July 2025

Shortage of medicines for ADHD (Attention Deficit Hyperactivity Disorder) – Information for patients, families and carers – Updated July 2025

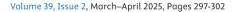
ADHD med shortages 'a merry-goround you just can't predict'

The new school year has coincided with another series of shortages, forcing patients and prescribers to rethink their options.





Journal of Pediatric Health Care



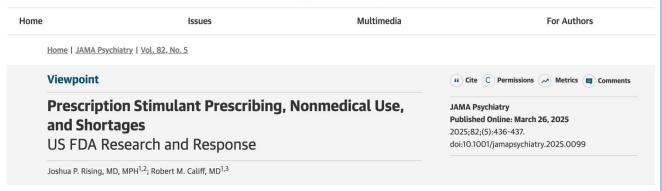


Professional Issues

Pharmaceutical Supply Chains: A Structural Determinant of Health for Children With ADHD

Victoria F. Keeton PhD, RN, CPNP, CNS △ 🖾

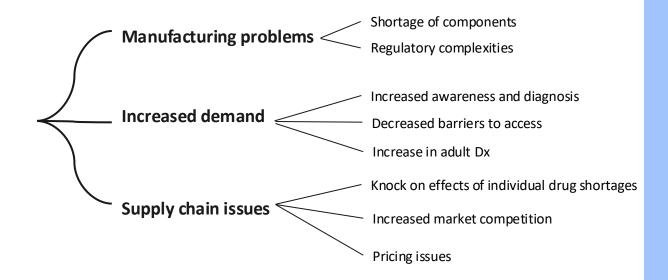
JAMA Psychiatry



The complexity of the problem

The underlying cause of the global shortage of ADHD medications is complex – which means there isn't a simple fix

Medication shortage



The problem in SA

- Much of the same!
- Buying power/increased market competition plays a big role prices steadily rising
- In the state sector:
 - Less flexibility to adapt prescribing/procurement/expenditure
 - Increased demand have used all contracted medication doses ahead of projected timeline
 - Inefficient or outdated systems for supply chain management
 - Multi-level disparity



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Page 1 of 12

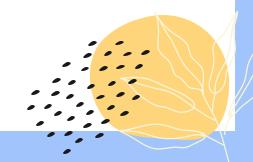


The SASOP/PsychMg child and adolescent attentiondeficit/hyperactivity disorder guidelines

Authors:

Brendan Belsham¹ D Linda Kelly² D Renata Schoeman³ D Dates:

Received: 17 July 2024 Accepted: 11 Nov. 2024 Published: 25 Feb. 2025



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TABLE 1: Stimulant medications available in South Africa.

Substance	Trade name	Duration of action	Formulation	Starting dose	Dosing interval	Maximum daily dose
Methylphenidate immediate release	Ritalin®	4 h	10 mg tablet	5 mg daily at	Two or three times	60 mg
	Douglas MPH®			breakfast	daily, 4 h apart	
	Biotech MPH®					
Methylphenidate extended release	Ritalin LA®	6 h–8 h	Spheroidal oral drug absorption system (SODAS)	10 mg daily at breakfast	Once daily	60 mg
			60% immediate release: 40% extended release			
			10 mg, 20 mg, 30 mg and 40 mg capsule			
	Medikinet MR®	6 h–8 h	50% immediate release: 50% extended release			
			5~mg , $10~mg$, $20~mg$, $30~mg$ and $40~mg$ capsules			
	Concerta® Neucon® Unicorn MPH®, Mefedinel®	10 h−12 h	Osmotic release system (OROS): 22% immediate release: 78% extended release	18 mg daily at breakfast	Once daily	Children: 54 mg Adolescents: (13–18 years) 72 mg
			18 mg, 27 mg, 36 mg and 54 mg hard-shelled capsules, must be swallowed whole			
	Contramyl XR®	10 h–12 h	Multi-unit particulate system			
			18 mg, 27 mg, 36 mg and 54 mg tablets			
	Radd®	10 h-12 h	Hydrophilic Matrix release system			
	Acerta®	10 h–12 h	Extended-release film-coated tablets			
Dexamfetamine sulphate	Amfexa®	6 h–7 h	5 mg and 10 mg breakable tablets	5 mg daily at breakfast	Once or twice daily, 6 h apart	20 mg (up to 40 mg in rare cases)
Lisdexamfetamine†	Vyvanse®	14 h	30 mg, 50 mg and 70 mg capsules	30 mg daily with breakfast	Once daily with breakfast	70 mg

MPH, methylphenidate.



^{†,} not registered for use in children below 13 years.





- Recommended dose 1.2-1.8 mg/kg/day (start at 0.5 mg/kg/day)
- Once daily or divided 12 hourly

Clonidine

Complex dosing: start at 0.05mg nocte > bd > tds > gid then increase to max daily dose 0.2-0.4mg/kg/day depending on weight

Imipramine

- 1-4mg/kg/day (max 200mg/day)
- Daily dose or divided in up to 3 doses

Atypical antipsychotics

- Risperidone
 - 0.25 mg or 0.01mg/kg daily to max 2mg or 0.06mg/kg daily.
 - Daily dose or divided 12hourly
- Aripiprazole
 - 1mg daily to max 15mg daily



Attention deficit hyperactivity disorder: diagnosis and management

NICE guideline

Published: 14 March 2018

Last updated: 13 September 2019

www.nice.org.uk/guidance/ng87



1.7.7 Offer methylphenidate (either short or long acting) as the first line pharmacological treatment for children aged 5 years and over and young people with ADHD.

March 2018 – this is an off-label use for children aged 5 years. See NICE's information on prescribing medicines. [2018]

1.7.8 Consider switching to lisdexamfetamine for children aged 5 years and over and young people who have had a 6-week trial of methylphenidate at an adequate dose and not derived enough benefit in terms of reduced ADHD symptoms and associated impairment.

March 2018 – this is an off-label use for children aged 5 years. See NICE's information on prescribing medicines. [2018]

2.7.9 Consider dexamfetamine for children aged 5 years and over and young people whose ADHD symptoms are responding to lisdexamfetamine but who cannot tolerate the longer effect profile.

March 2018 – dexamfetamine is only licensed to treat ADHD in children and young people aged 6 to 17 years when response to methylphenidate is clinically inadequate. It is not licensed for children and young people aged 5 to 17 years who have responded to but are intolerant of lisdexamfetamine. See NICE's information on prescribing medicines.

- 1.7.10 Offer atomoxetine or guanfacine to children aged 5 years and over and young people if:
 - they cannot tolerate methylphenidate or lisdexamfetamine or
 - their symptoms have not responded to separate 6-week trials of lisdexamfetamine and methylphenidate, having considered alternative



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Page 1 of 12

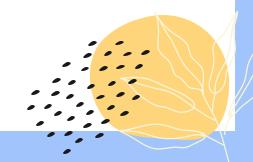


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Stimulants

Stimulants are the best-studied pharmacological treatment for ADHD across the lifespan. Methylphenidate and AMP have similar effects, with an average response rate of 70%.72 In addition to reducing the core symptoms of ADHD, stimulants have been shown to improve associated features such as defiance, academic performance, social functioning, as well as fine and gross motor functioning. 11 These effects appear to be dose dependent and are evident across multiple settings. 24,25,64 Internationally, most treatment guidelines recommend one of the stimulants as the first-line pharmacological treatment for ADHD. 24,25,64 However, it must be stressed that treatment choice depends on a variety of factors, which may vary between individual patients and the choice of medication ultimately resides with the prescribing doctor in collaboration with the patient and his or her family. Of the two stimulant groups, MPH would generally be used before AMP in South Africa because of greater prescriber experience and availability of the former in both public and state sectors. See Table 1 for stimulants available in South Africa.

It is important to note that both classes of stimulant medication have similar efficacy and tolerability profiles at the population level. However, at the individual level, patients may respond to or tolerate one class better than the other.^{73,74} It may therefore be appropriate for an adequate trial of *both* classes of stimulants to be given before engaging in a trial of non-stimulant alternatives. Attention-deficit/hyperactivity disorder is a highly heterogeneous condition which affects individual patients differently.

There is very little correlation between body weight and dosage of the stimulant medications. The dosage should be gradually titrated against clinical response and side effects until an optimum response is attained. ²⁵ In practice, this may result in dosages that are above the maximum published dosages according to the package insert. In such cases, patients should be under specialist care and frequent monitoring of side effects should be undertaken.

Non-stimulants

Atomoxetine has a slightly lower effect size (overall response rate) compared to psychostimulants.⁷⁷ The recommended dose of ATX is 1.2 to 1.8 mg/kg/day.⁷⁸ Atomoxetine may be considered for patients who experience significant side effects or who have had suboptimal responses to stimulants.⁷⁹

It may also be used in combination with stimulant medication in patients whose response to the latter has been suboptimal as there may be synergistic effects in some patients when these two agents are used together. However, the concurrent use of a stimulant and ATX should be under the care of a specialist and blood pressure and pulse should be regularly measured because of the catecholaminergic effect of both medications. Atomoxetine may also be prescribed when stimulant agents are contraindicated or where there is a high risk of stimulant misuse. On patients with significant comorbid anxiety, ATX may also be preferable as it has potential anxiolytic benefits, most notably in social anxiety, and may be less likely than stimulant medications to aggravate anxiety.



Guanfacine is another non-stimulant for ADHD but not available in South Africa. Other agents used off-label (with lower efficacy profiles and more severe side effects) include clonidine (Menograine®) and imipramine (Tofranil®). There is no evidence for the use of bupropion or modafinil in the treatment of children and adolescents with ADHD. Atypical antipsychotics are among the agents used for comorbidities commonly seen with ADHD, often in combination with other agents. These medications are generally reserved for treatment-resistant cases and require specialised care.

Methylphenidate:

Cost variable: ~R122 for least expensive 10mg SA generic and ~R411 for least

expensive 10mg LA to ~R1 434 for brand name extended release 54mg

formulation

Advantages:

- High efficacy
- Rapid onset
- Well tolerated and safe
- Multiple duration options: short, intermediate and long acting
- Provider familiarity
- Inexpensive
- Some evidence for use in children as young as 3 years

- Side effect profile
- Cardiovascular concerns
- Short acting limitations
- Prescribing restrictions/access barriers
- Misuse potential

Amphetamines:

Dexamphetamine: ~R591-R1761

Lisdexamphetamine: ~R1 271-R 1 565

Advantages:

- **High efficacy** (bigger effect size than methylphenidate)
- Rapid onset
- Long and short acting formulations

- Side effect profile: Higher risk of psychosis
- Cardiovascular concerns
- Prescribing restrictions/access barriers
- Higher chance of tolerance/withdrawal
- Misuse potential

Atomoxetine:

Cost variable: ~R362 –R1 430 depending on brand

Advantages:

- Long lasting effects consistent symptom management
- Single daily dose
- Useful when stimulants not tolerated well
- Useful in comorbidities e.g. anxiety, tics
- Low abuse potential
- Less barriers to prescribing

- Delayed onset, need consistent dosing
- Need consistent dosing for effect
- Lower efficacy
- Suicidality risk (black box warning)
- Cardiovascular risks

Clonidine:

Cost variable: ~R116 –R570 depending on brand

Advantages:

- Can be useful when stimulants not tolerated well
- Useful in comorbidities e.g. sleep dysregulation, anxiety
- Low abuse potential
- Less barriers to prescribing
- Inexpensive
- No reported shortages

- Sedation, fatigue, hypotension
- Delayed onset, need consistent dosing for effect
- Lower efficacy usually use as adjunctive treatment
- Dosing and administration complex
- Off label use
- Tolerance and withdrawal risk

Imipramine:

Cost variable: ~R128 –R1 098 depending on brand

Advantages:

- Non-stimulant option
- Useful in comorbidities e.g. depression, sleep disturbance, pain
- No reported shortages
- Less barriers to prescribing
- Low abuse potential
- Long lasting effects consistent symptom management

- Low effect size
- Delayed onset, need consistent dosing for effect
- Multiple drug interactions
- Withdrawal risk
- Off label use

Atypical antipsychotics:

Risperidone: ~R201 for generic 0.5mg tablet – R2 941 for 4mg brand name tablet

Aripiprazole: ~R295 for generic 5mg tablet – R2797 for 30mg brand name tablet

Advantages:

- Useful in comorbidities e.g. autism, conduct disorder
- Broad action effects on emotional dysregulation and irritability
- Less barriers to prescribing
- Low abuse potential
- Widely available

- Not targeting core ADHD symptoms
- Off label use
- Sedation and weight gain
- Long term risks metabolic syndrome, EPSE
- QT prolongation

What to do?



International Guidance:

- Consider the ongoing shortages when prescribing methylphenidate products
- Consider the availability of other ADHD medicines when prescribing alternative
- Switch within the same stimulant class first before considering a change of class
- Inform patients that supply of the various methylphenidate products is expected to be limited throughout 2025 and 2026
- Do not prescribe more than one month's supply at a time of the affected medicine
- Do not prescribe antipsychotics or benzodiazepines as alternatives to ADHD medicines.



The first stop for professional medicines advice



Other advice:

- Prioritize patients with highest clinical need (risk of significant functional impairment or relapse)
- Open communication with parents and families consider drug holidays to save medication for critical times e.g. exams
- Consider temporary dose reductions if clinically appropriate
- Explore non-pharmacological interventions
- Exercise careful diagnostic judgement when evaluating new ADHD presentations
- Encourage families to play an active role in advocacy and to have open communication with schools

Thoughts for discussion:

- How do we advocate? And what do we advocate for?
- How do we judge who has highest clinical need?
 - O Children vs adults?
 - O Children in mainstream school vs LSEN?
 - O Children in milestone school grades e.g. Matric?
- How do ensure equitable access to medication at all levels of care?
- How do we decide who to transition to alternative medication?
 - O Newly diagnosed?
 - O People on highest doses? Transition to combination as "stimulant sparing"?
- Would previous adherence influence decision making?
- How do we improve use and access to non-pharmacological
 - strategies?



Useful resources:

ARTICLE/RESOURCE AND AUTHOR(S) WHEN APPLICABLE	TOPICS COVERED	QR CODE/URL	
"How to Switch Stimulants: a Dosing Guide for ADHD" ¹¹ Chris Aiken, MD	Dosing guide Accounts for isomers, duration, and absorption Guidelines for switching between methylphenidate and amphetamines Maximum daily doses	https://www.psychiatrictimes. com/view/how-to-switch- stimulants-dosing-guide-for- adhd?slide=1	
ADHD medication calculator/converter ¹⁹	Calculator (website/app) Duration of action, time to peak effect, starting dose and titration recommendations, and maximum doses	https://www.adhdmedcalc.com/	
Prescribing Guidelines for Attention Deficit/Hyperactivity Disorder (ADHD) ³⁰ Nationwide Children's Hospital and Partners For Kids	Guideline document Link to Vandorbilt Assessment Scales for ADHD screening Long-acting stimulant guidelines Long-acting stimulant conversion guide Patient-related considerations and recommendations Lists of preferred and nonpreferred stimulants and non-stimulants with information on alternative formulations and clinical pearls	https://partnersforkids.org/ wp-content/upleads/2021/02/ xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
AAPP Pharmacist Toolkit ^a Sandra Mitchell, PharmD, BCPP, and Danielle L Stutzman, PharmD, BCPP	Toolkit document Stimulant class comparisons, including the mechanism of action, metabolism, and general dosing considerations Stimulant dose conversions with treatment plans and recommendations	https://aapp.org/guideline/ stimulant (login to download)	
"Navigating the Current Shortages of Pediatric ADHD Medications" ²² Bailey Smith, PharmD; Luz Rosa- rio, PharmD candidate, Janessa Malidonado, PharmD candidate, Tracy Nguyen, PharmD candidate, Tracy Patel, PharmD candidate, Kreena Patel, PharmD candidate, Kreena Patel, PharmD candidate, Statiyn Bradford, PharmD, BCPPS	Guideline article Medications not affected by current shortage Approved treatment options with conversion guidelines and recommendations	https://www.contemporarype- diatrics.com/view/navigating- the-current-shortages-of-pedi- atric-adhd-medications	
"Practice Parameter for the Assessment and Treatment of Children and Adolescents With Attention-Deficit/ Hyperactivity Disorder" American Academy of Child and Adolescent Psychiatry	Practice parameter Clinical course, comorbidities, and etiology of ADHD Recommendations for screening, evaluation, and treatment of ADHD based on different situations FDA-approved and not-approved medications for ADHD and related information backed by scientific research	https://www.jaacap.org/article/ 50890-8567(09)62182-1/pdf	







aadpa

About Join Resources ADHD Guideline Prescribin

Updated Prescribing Resources To Support ADHD Care During Medication Shortages







The first stop for professional medicines advice







AAPP, American Association of Psychiatric Pharmacists; ADHD, attention-deficit/hyperactivity disorder.

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Thanks!

Any questions?

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