ADHD: Evidence Based Assessment & Management in Primary Care



Dr. Joan Flood

Family Physician, The Shoniker Clinic, Scarborough

Board Member, The Canadian ADHD Resource Alliance (CADDRA)

Chair, Advocacy Committee, CADDRA

1

Disclosures

Dr. Joan Flood

Honoraria, speaker fees, and unrestricted educational grants from the following companies:

- . Purdue
- . Janssen Ortho
- . Shire-Takeda

*No financial or in-kind support has been received for this program

Disclosure of Commercial Support

The Dept. of Family and Community Medicine rounds are made possible in part from pooled resources of unrestricted educational grants from

 AstraZeneca Canada Inc., Eli Lilly Canada Inc., Galderma Canada Inc., Valeant Canada, Pediapharm.

Potential for conflict(s) of interest:

- Dr. Joan Flood will receive a small honorarium from the Department of Family and Community Medicine at the Scarborough Health Network
- Dr. Flood has received payment or funding from the organizations whose product(s) are being discussed in this program but not with respect to this presentation

3

Mitigating Potential Bias

- The organizers of this program select presentation topics based on the results of a needs assessment carried out every year. The speakers are asked to present information from the guidelines, that are based on evidence and expert opinion.
- The presenter of this program will discuss a variety of therapies, and will aim to use generic names and provide supporting evidence/references.

Learning Objectives

At the conclusion of this activity, participants will be able to:

- 1. Identify common misperceptions about ADHD that prevent many primary care physicians from confidently treating ADHD.
- 2. Apply 2018 Canadian ADHD Practice Guidelines to the assessment and management of ADHD in primary care
- 3. Review ADHD cases that are common presentations in Primary Care.



5





Canadian ADHD Practice Guidelines
Fourth Edition

Diagnostic and Statistical Manual (DSM-5) Presentations

INATTENTIVE PRESENTATION

6 of 9* symptoms are required from Criteria A1

HYPERACTIVE-IMPULSIVE PRESENTATION

6 of 9* symptoms are required from Criteria A2

COMBINED **PRESENTATION**

6 out of 9* symptoms are + symptoms are required from Criteria A1

6 out of 9* required from Criteria A2

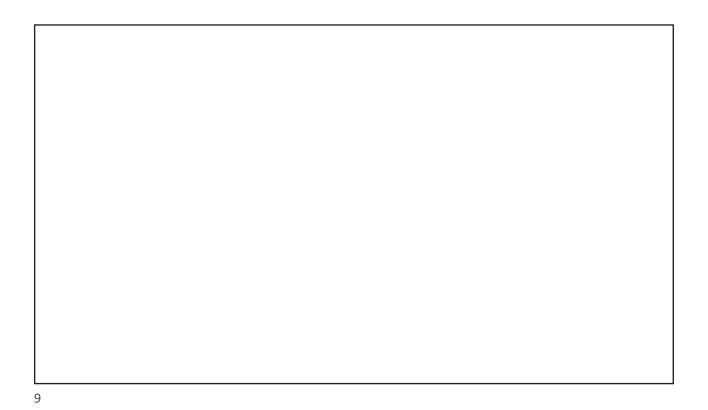
*Total number of symptoms are less in adults (17+): 5 of 9 instead of 6 of 9



Be Open to the Diagnosis of ADHD

- ADHD presents in many ways and if you limit your definition to the idea that it is the boy who misbehaves and underachieves in school then you will miss many in your practice.
- If you think you can pick up ADHD by how a person appears in a single session, you will miss it more times than not.
- Plus, ADHD isn't just a disorder that affects kids...





Why treat ADHD?

- ADHD is a medical disorder with serious impairments just as in diabetes and cardiovascular disease
- As primary care physicians, we treat Depression, Bipolar illness, Anxiety – why aren't we treating ADHD?

Don't underestimate the cost of NOT TREATING!



What is ADHD?

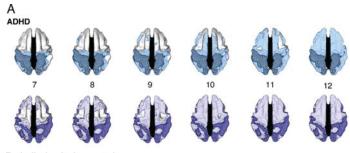


- A neurodevelopmental disorder with diverse symptomatology around the key factors of inattention, impulsivity, hyperactivity and emotional dysregulation.
- Affects 5-9% of children and 3-5% of adults worldwide

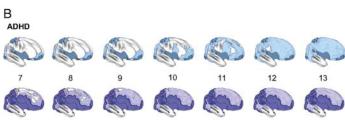


11

ADHD is characterized by a delay in cortical maturation

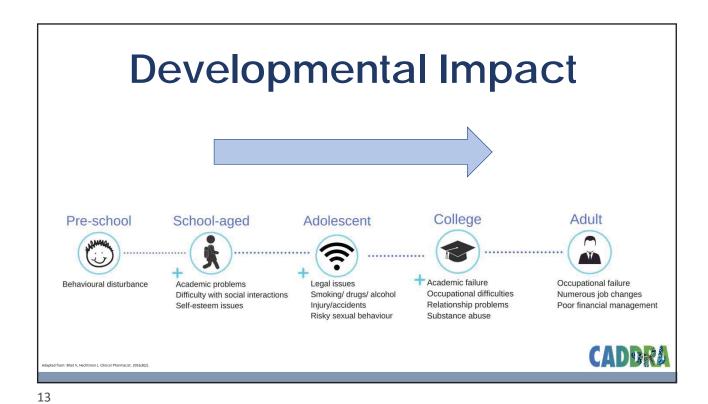


Typically developing controls

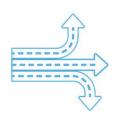


Typically developing controls

PNAS December 4, 2007 104 (49) 19649-19654



ADHD and Comorbidity



- 50-90% of children with ADHD have at least one other comorbid disorder (e.g. ODD, anxiety, depression, autism, learning disabilities)
- 85% of adults meet the criteria for a comorbid disorder (e.g. anxiety, depression, bipolar disorder, conduct disorder, substance abuse, borderline personality disorder)
- The point here is that ADHD may be the underlying cause of many of these disorders that you are already treating!

Kessler RC, et al. *Am J Psychiatry*. 2006;163:716-723. Cumyn L et al. *Can J Psychiatry*. 2009;54(10):673-683

 ADHD is overdiagnosed and overmedicated

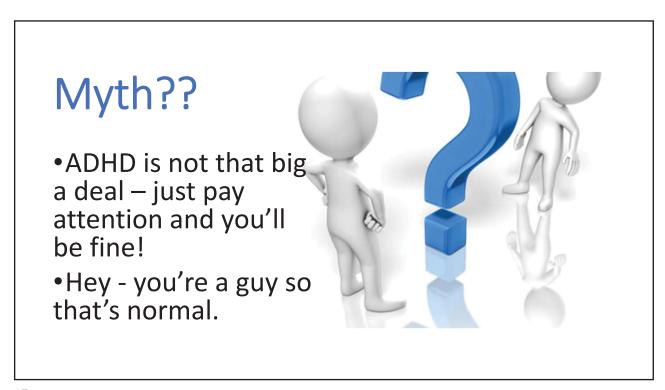


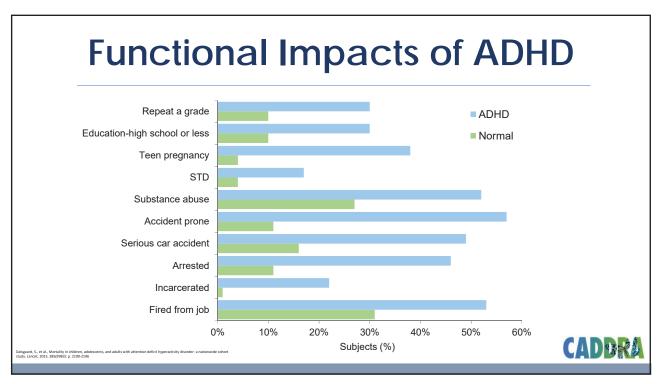
15

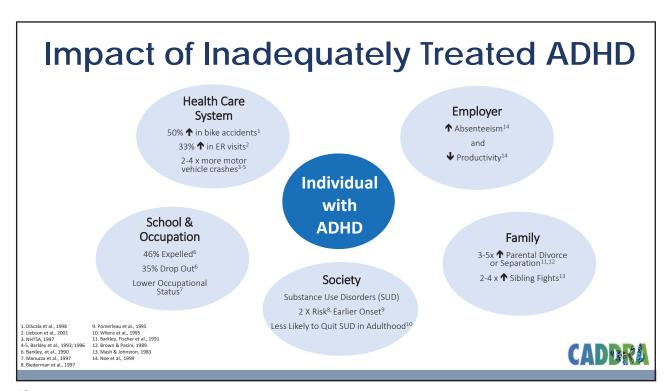
ADHD in Canada 2016

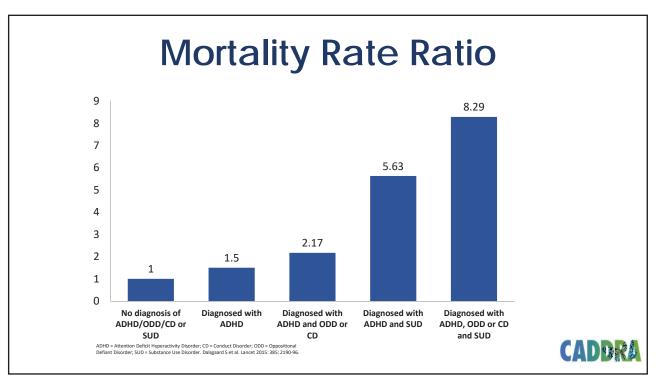
	ADHD (ages 5–19)	ADHD – Adults (ages 20–64)
Total Population (estimates)	5,915,466	22,222,004
Prevalence [%]	6%	4.4%
Patients with ADHD	354,927	977,768
% Diagnosed & Treated	33%	7%
Patients Diagnosed & Treated	117,126	68,444
How many adults are left untreated? 909,324 How many Children? 237,801		

CADDX









 You can't have ADHD if you're smart and have good grades



21

Myth??

 Psychological testing is required to diagnose ADHD



Essentials of Diagnosis

- Clinical interview that identifies not only current challenges but also examines past functioning, developmental history, academic/vocational history, social functioning, medical history and family history
- Attention to presence of co-morbid disorders: Oppositional Defiant Disorder, Anxiety, Dysthymia, Depression, Autism...



23

Screening Tools

The CADDRA e-Toolkit provides several assessment forms to screen for general mental health challenges as well as the specific impairments associated with ADHD.

Children

SNAP-IV, WFIRS-P, CADDRA Teacher Assessment form

Adolescents

ASRS, WFIRS-S, WFIRS-P, Teacher Assessment form

Adults

ASRS, WFIRS-S



 Behavioural interventions are not indicated since research has shown no significant effects on ADHD core symptoms



25

GUIDE TO ADHD PSYCHOSOCIAL INTERVENTIONS Accommodations Identify accommodation needs Provide CADDRA workplace accommodations template Instructional • Make eye and/or gentle physical contact before giving one or two clear instructions. Have instructions repeated back, or confirm they were understood, before proceeding | Instructional | | Keep directions clear and precise | Get student's attention before giving instructions | Check understanding and provide charification as or confirm they were understood, before proceeding Rehavioral Use a positive approach and calm to not of voice. Teach calming techniques to descedate conflict Use prise, carch them being good (playing nicely) Ser clear artisable goals and limits domework and bedtime routines, chorely and connect them to earning the positive control of the control Counsel Suggest regular and frequent meetings with manager and support collaborative approach Set goals, learn to prioritize, review progress regularly Identify time management techniques that work for the client, e.g. using a planner, apps Decluter and create a work-friendly environment Actively engage the student by providing work at the appropriate academic level Behavioral Provide immediate and frequent feedback Use direct requests—when...then Visual cues for transitions Allow for acceptable opportunities for movement— "walking passes" Behavioral Organizational apps and/or productivity websites caddra.ca/medical-resources/psychosocial-information Choices should be limited to two or three options. Environmental Structure and routine are essential. Parents/partners must be mitted, consistent, firm, fair and follow through Encourage prioritizing instead of procrastination. Post visual reminders (rules, lists, sticky notes, calendars) in prominent locations. Use time-days for reminders formswork, chores, Use time-days for reminders formswork, chores, Use time-days for transitional forms of the prominent locations. Keep labeled, different coloured folders or containers in prominent locations for times, theys, electronic, i.e., Find the work area best suited to the individual (dining table, quite area). Allow white noise (fan, background music) during homework or at bedtime. Preferential seating Quiet place for calming down Quiet place for calming down Accommodations Chunk and break down steps to initiate tales Provide voisul supports to instruction Reduce the amount of work required to show knowledge Allow extended time on tests and exams Provide not taker or access to assistive rechnology Supports can include the CADDRA psychoeductional and accommodations template Request school support services Relationships Understand the impact ADHD can have on relationships with partners, family, friends, teachers, peers and co-workers. Recognize and accept ADHD can cause unintended fixtion and frustration between parent and child as well as between partners (e.g. dilliculties with self-regulation, time management difficulties). Learn how to listen and communicate effectively. Organize frequent time to communicate (don't just talk) to discuss goods and plans (what works, what doesn't) within home, educational and work environments. environments • Schedule regular fun with family, partner, friends • Schedule regular fun with family, partner, friends • Practice refuxation and mindfulness techniques caddn.ca/medical-resources/psychosocial-information • Stay calm, be positive, recognize/validate and celebrate strengths! Other referrals may be needed: Social Skills Program Organizational Skill Course Occupational Therapist Speech and Language CADORA For further information, please refer to the Psychosocial Interventions and Treatments chapter, Canadian ADHD Practice Guidelines at caddra.ca

•When medicating for ADHD, start with a low-dose, short acting stimulant



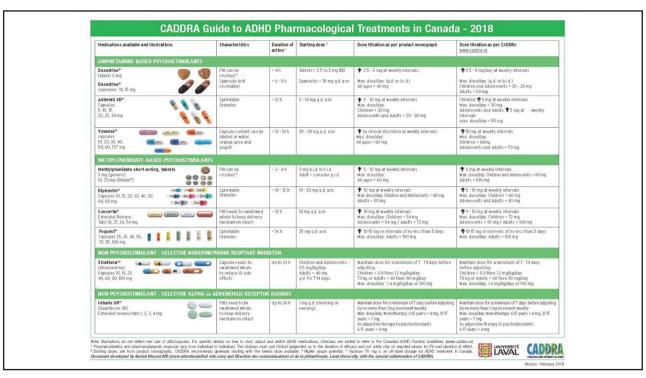
27

Medication Management

- · First-line treatments: methylphenidate or dexamphetamine
 - Use long acting NOT short acting meds
 - Start at a low dose and titrate upwards
 - Consider method of administration (capsule or dissolvable) and duration of action
- Second-line treatments: atomoxetine, guanfacine, clonidine
 - Option for patients who do not tolerate or respond to first-line treatment often an add-on to the stimulant
 - Be sure that you have optimized first-line agents before commencing second-line treatments

Challenge: Medication coverage is not equal across the country





29

Myth??

•ADHD medications are dangerous and have lots of cardiac risks! Only specialists should prescribe them.



Side Effects

- Loss of appetite eat breakfast!
- Insomnia usually settles with good sleep hygiene and avoidance of 'screens' in the hour before bed
- Headaches transient simple analgesics and hydration are helpful
- Mood/anxiety will respond to a change in medication if due to medication

Contrary to popular belief, cardiac effects are minimal – equivalent to running up a flight of stairs. There is no need for an EKG or cardiac workup unless there is a family history of sudden cardiac death in the young or known serious heart disease.



31

Myth??

•ADHD medications increase the risk of drug abuse.



ADHD &
Substance
Use/Diversion



- Substance Abuse increases if ADHD is comorbid with Early Cigarette Smoking
- Substance Abuse is less if ADHD is treated from an early age
- Diversion is a risk with *short-acting* meds

33

Myth??

•Therapeutic drug holidays are recommended during school, holiday or weekend breaks.



Other effective treatments include:

- neurofeedback
- cognitive training
- food supplements
- omega 3/6 fatty acids
- avoiding sugar & red food dye



35

Take-home Messages

- Despite common belief, ADHD is underdiagnosed
- Effective management of ADHD includes:
 - ✓ Education
 - ✓ Parent/patient counseling
 - ✓ Behavioural, psychosocial, and pharmacological treatments
- Long-acting stimulants are recommended as first-line therapy
- Monitoring and optimization of medication is important throughout the lifespan
- Remain vigilant for the presence of co-morbidities which may emerge over time, and consider referral to a specialist if you're stuck





You <u>can</u> manage ADHD in Primary Care and markedly improve the lives of your patients with ADHD – treatment of ADHD is truly life changing!



37

Resources

www.caddra.ca – Please become a member! Our annual meetings: Toronto, 2019 & St. John's, 2020

<u>www.caddac.ca</u> – great info for patients, families and schools

<u>www.totallyADD.com</u> – fun and interactive site for adults