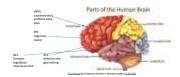
| May I Have Your Attention Please?   |  |
|---|--|
| ADHD Updates for Pediatrics<br>Non-Medication Alternatives                              |  |
| Susan R. Opas, PhD, PNP-BS, PMHS-C  |  |
| Children's Center for Attention Problems – CCAP  Kaiser Woodland Hills                  |  |
| November 2, 2018  |  |
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| Disclosures   |  |
| Disclosures   |  |
| I have nothing to disclose of relationships with pharmaceutical and behavioral programs |  |
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| Overview  |  |
| Brief review of ADHD neurobiology   |  |
| Executive function  |  |
| Diagnostic criteria – the new DSM-5   |  |
| Update of the MTA study   |  |
| Situational and setting alternatives to ADHD stimulant and other medications            |  |
| Home & family     Community   |  |
| • School  |  |
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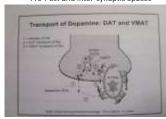
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- Review and understand neuro-regulation and neurochemical differences of the ADHD brain
   Review ADHD impaired executive function
   Learn the Gold-standard documents & tools used for ADHD diagnosis & follow-up
   Describe non-medication treatments and supports for children with ADHD
   Learn the validity and reliability of alternative interventions and therapies for ADHD behaviors
- Learn ways to support key ADHD problems as an alternative or adjunct to first-line stimulant medium and a management. The management is last organization of interpersonal relationships. Academic and vocational/professional success.
- Through review of Federal/State/local School Board laws supporting children with ADHD, teach
  parents the process of gaining educational supports for children not learning to their potential

Brain and Cognitive Circuits



Presence of Dopamine & Regulation in the Pre-Post and Inter-synaptic Spaces



| Executive Functions Potentially Impaired   |   |
|--|---|
| in Untreated ADHD  |   |
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| PUNCTION   |   |
| ACTIVATION FOCUS 1EFFORT AUMOTION 3MEMORY 6 ACTION   | - |
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| Brown, TE (2011). A New Understanding of ADHO in Children & Adults (NYKodning) 7 Adults (NYKodning) 7  |   |
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| Gold Standard Tools for ADHD Diagnosis and Treatment   |   |
| - Diagnostic and Statistical Manual for Mental Disorders – $5^{th}$ ed. (2013), Alexandria, VA: American Psychiatric Association.  |   |
| <ul> <li>ADHD: Clinical Practice Guideline for the Diagnosis and Treatment of Attention-<br/>Deficit/Hyperactivity Disorder in Children and Adolescents (2011) <u>Pediatrics 128(5)</u>. Elk Grove, Il:<br/>American Academy of Pediatrics.</li> </ul> |   |
| <ul> <li>Practice Parameters for the Assessment and Treatment of Attention-Deficit Hyperactivity Disorder<br/>(2007) <u>IAACAP 46(7)</u>, Amsterdam: Elsevier.</li> </ul>  | - |
| <ul> <li>*Comprehensive psychoeducational testing is useful to identify specific learning disabilities<br/>(SLDs), but does not determine ADHD and is very expensive (several thousand dollars).</li> </ul>  |   |
| **Currently there are no valid and reliable tests for ADHD diagnosis   |   |

## Making an ADHD Diagnosis DSM-5, 314.0 ADHD

- ≥ 6 behaviors persisting ≥ 6 months; as early as age 4 years
   Inconsistent with expected developmental level; causing direct, negative impact on social, and-or academic/occupational activities
- Observed and reported in  $\geq 2$  settings
- Several behaviors present before age 12
- > 17 yo can be diagnosed with 5 behaviors
- Behaviors are not exclusive to other mental health disorders or drug/alcohol use

| ADHD Differential Diagnosis   |  |
|---|--|
| Physical health   |  |
| mild, moderate hearing &/or vision deficits   |  |
| neurodegenerative disorders   |  |
| traumatic brain injury (prenatal-adult)     abroppe spirures  |  |
| <ul><li>absence seizures</li><li>generalized seizure disorders</li></ul>                              |  |
| movement disorders  |  |
| sleep disorders - OSA   |  |
| • thyroid deficiencies  |  |
| • toxins (prenatal-adult)   |  |
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| ADHD Differential Diagnosis   |  |
| A Mark III A Comment  |  |
| <ul> <li>Mental interference</li> <li>intelligence</li> </ul>   |  |
| co-morbid neuromuscular compromise  |  |
| Learning disability   |  |
| • slow learners   |  |
| <ul><li>situational - environmental</li><li>processing problems</li></ul>                             |  |
| visual fluency, interpretation, "dyslexia"  |  |
| <ul><li>auditory perception, recall</li><li>comprehension, short-term memory</li></ul>                |  |
| Spectrum disorders  |  |
| Spectrum districts  |  |
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| ADHD Differential Diagnosis   |  |
| iono omerenta oragnosio   |  |
| Mental health problems  |  |
| • self-esteem issues  |  |
| family, child neglect & abuse   |  |
| <ul> <li>co-morbid emotional/behavioral disorders</li> <li>anxiety, depression, opposition</li> </ul> |  |
| mental illness  |  |
| bipolar, personality disorders  |  |
| alcohol & drug use: a-motivation  |  |
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| DSM-5, 314.0,xxx1 ADH   | D Diagnostic Criteria  |    |      |  |
|---|--|----|------|--|
| ≥ 6 Behaviors of Either Inattentive, Hy   | peractive-Impulsive or Combined Type   |    |      |  |
| 314.00 Predominantly Inattentive     poor attention to detail / careless mistakes               | 314.01 Prdom Hyperactive/Impulsive     fidgets & squirms   |    |      |  |
| <ul> <li>difficulty sustaining attention in tasks or play</li> </ul>                            | <ul> <li>leaves seat although remaining seated is the requirement</li> </ul>                           |    |      |  |
| appears to not listen when spoken to     poor follow through of instructions or task completion | runs about / climbs excessively     difficulty playing quietly     ""                                  |    |      |  |
| difficulty organizing     reluctance/avoidance to engage in activity of sustained mental effort | "on the go" "driven by a motor"     talks excessively     blurts out before question                   |    |      |  |
| loss of necessary supplies     easily distracted     forgetful in daily activities              | blurts out before question completion     difficulty waiting turn     interrupts or intrudes on others |    |      |  |
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| Key Impairments of Unt  | reated Childhood ADHD  |    |      |  |
|   |  |    |      |  |
| <ul> <li>Academic underachievement</li> <li>Peer rejection</li> </ul>                           |  |    |      |  |
| Marked compromise in parer<br>(difficulty developing & main:                                    |  |    |      |  |
| relationships); increased pare  |  |    |      |  |
| <ul><li>Decreased self-esteem</li><li>Increased accidents/injuries</li></ul>                    |  |    |      |  |
| Lowered independence     Increased incidence of substa  | ince use abuse dependence  |    |      |  |
| mercasca melacinee or subse   | mae ase, abase, aepenaence   |    |      |  |
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| Wilens, T., 2011.   |  |    |      |  |
| J. Am. Acad. Child & Ad   | ol Psych, 50(1)6-8.  |    |      |  |
| A Sobering Fact: ADHD I   | eads to Substance Abuse  |    |      |  |
| 5 <sup>th</sup> Grade: Time to start discus   |  |    | <br> |  |
| families<br>15-20% of drug/alcohol use a  |  |    |      |  |
| Multifactoral links<br>neuropsychologic difference  | 5  |    |      |  |
| neurostructural differences   |  |    |      |  |
| catecholaminergic dysregula   | uon  |    |      |  |

| ortant Facts  |  |
|---|--|
|   |  |
| Cigarette smoking (vaping?) in youth is considered to be a gateway more severe alcohol and drug use   |  |
| Attitudes towards marijuana use are changing. There is evidence-<br>sed data of it's effects on the neurological/plasticity changes in the  |  |
| plescent/early adult brain  |  |
| ADHD and co-morbid ODD have a higher incidence of later options and common to the common stance abuse   |  |
| Sustained abstinence from SUD took 2x longer for ADHD individuals   |  |
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| Medication or Behavioral Treatment ?  |  |
| The MTA Attention Deficit Study Results   |  |
| <ul> <li>1999: N=579 (all ADHD-C) ages 7-9.9 years. Initial results showed<br/>medication alone vs medication + behavioral supports to have</li> </ul>                                    |  |
| <ul> <li>2000: at 10-months post-study, 50% showing initial advantages</li> </ul>   |  |
| subsided  2002: at 14-month post-study, 64% of medication-only or combination medication-therapy group had stopped medications  |  |
| <ul> <li>2009: N=436 ages 14.9-16.8 years. 8-year post-study reported</li> </ul>  |  |
| significant impairments in learning at school & behaviors at home and school  |  |
| 2017: Group comparisons – increased use of medications in<br>behavioral therapy group and local normative (control) group.<br>Medication and Medication + Therapy groups continued modest |  |
| decrease in medication use  |  |
| MTA Cooperative Group (1999) 14 month randomised clinical trialArchives of General Psychiatry 56:1073-1086 17   |  |
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| National Survey of Children's Health:NSCH 2003, 2007  |  |
| CDC, <u>MM Weekly Report, 59</u> (44):1439-1444. 11/12/2010   |  |
| 2003 2007   |  |
| Ever diagnosed         7.8%         9.5%           Overall #         4.4 million         5.4 million  |  |
| Males: 11.0/100 13.2/100 surveyed 6.9/100 treated   |  |
| Females: 4.4/100 5.6/100 surveyed 2.5% treated  |  |
| Overall treated 507,600 Criterion for treatment   |  |
| Mild: 56.4% Moderate: 71.6% Severe: 85.9% 2.65% 3.37% 4.04%   |  |
| 2.57 אינט. אינט. 4.04%  |  |
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| Non-medication but Noted Alternative Therapies  |  |
|---|--|
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| Special diets: exclusion, elimination, challenge  |  |
| Omega-3 (polyunsaturated) fatty acids Alpha-linolenic acid (AIA), Elcosapentaeoic acid (ENA), 320 mg/day                                  |  |
| Eicosapentaenoic acid (EPA), 320 mg/day     Docosahexaenoic acid (DHA), 200 mg/day  |  |
| Herbals: naturopathics, flower essence, Chinese     Individual & mixed homeopathics   |  |
| Neurofeedback, Biofeedback  |  |
| • Cognitive training  |  |
| Vision therapy Sensory integration  |  |
| Behavioral therapy  |  |
| <ul> <li>Parent Management Training (PMT), Behavioral Parent Training (BPT), parent-child training, child-<br/>focused therapy</li> </ul> |  |
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| Dietary Therapies   |  |
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| Exclusion: www.feingold.com,  |  |
| <ul> <li>Certified food dyes: tartrazine, allura red, ponceau 4R, Quinoline yellow<br/>WS, Sunset yellow, carmoisine</li> </ul>           |  |
| Sodiumbenzoate (beverages)     Preservatives: BHA, BHT, TBHQ  |  |
| Salicylate, amines, emulsifiers   |  |
| Elimination:     Oligoantigenic: apples, cucumbers, tomatoes  |  |
| "Known antigenic foods"   |  |
| Provoking foods: allergens     Gluten-free  |  |
| Lactose/casein-free     Challenge-dechallenge-rechallenge   |  |
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| Supplement Therapy  |  |
| Supplement Therapy  |  |
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| Essential alpha linolenic (fatty) acid supplementation: Omega-3     DHA fish oil 200  |  |
| • Essential alpha linolenic (fatty) acid supplementation: Omega-3   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3     DHA fish oil 200     PUFA olive oil                                   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  FPA flax oil 320  Vayarin  Magnesium   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  EPA flax oil 320  Vayarin  Magnesium   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  EPA flax oil 320  Vayarin  Magnesium   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  EPA flax oil 320  Vayarin              |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  EPA flax oil 320  Vayarin  Magnesium   |  |
| Essential alpha linolenic (fatty) acid supplementation: Omega-3  DHA fish oil 200  PUFA olive oil  EPA flax oil 320  Vayarin  Magnesium   |  |

| Naturopathics/Homeopathics  |  |
|---|--|
| <ul> <li>Naturopathics</li> <li>"ADHO Alternatives", "Calm Keeper", "Kid's Attention +", "Natural Focus", "Natural Kids", "Natural Vitality", "Nature's Answer", "On Task", "Synaptol"</li> </ul> |  |
| Bach Flower Essences  |  |
| • Focusene: Acetyl-L-Carnitine, Phenylalanine, L-Theanine<br>• Essential oils   |  |
| • Homeopathics  |  |
| "Focus Factor", "Bright Spark", pulsatilla, stramonium     Chinese herbs  |  |
| Cilliese nerus  |  |
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| Neurofeedback –   |  |
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| <ul> <li>neurotherapy, neurobiofeedback, EEG biofeedback (EEGBF)</li> <li>"develop one's own brainwaves to then gain control over thinking, feeling"</li> </ul>                                   |  |
| Brain wave synchronization     Enhanced memory via theta-gamma oscillation  |  |
| Improved audio-visual-tactile entrainment   |  |
| • Institutes • Drake  |  |
| Brain Balance Games  Games  |  |
| • Mindball  |  |
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| Cognitive Training  |  |
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| Continuous Performance Tasks     TOVA: Test of Variables of Attention   |  |
| Working Memory     Computerized training: www.cogmed.com     Positive role for account for all heads.   |  |
| Positive reinforcement, feedback     Vision Therapy     Computer-based tracking games   |  |
| www.evecanlearn.com     Irlen lenses  |  |
| • Sensory integration • Kinesthetics  |  |
| • Touch   |  |
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| Behavioral "talk" Therapy  |  |
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| • Individual therapy   |  |
| Cognitive behavioral   |  |
| Problem focused  |  |
| Parent training Parent mediated therapy  |  |
| Behavioral parent training   |  |
| Parent-child training  |  |
| Child focused training   |  |
| Behavioral reinforcement   |  |
| Rewards-consequence training   |  |
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| Non-Medication Treatment for   |  |
| Learning and Social Issues of Childhood ADHD   |  |
| Auditory and/or Visual-Motor Processing  |  |
| Multicity earling in the latent gravity: Exchange parents to advocate and monitor their child?  Metarbeity exching in alternate system: Exchange parents to advocate and monitor their child; despond action of the child reading, verbal reports and test assumed the control reading, verbal reports and test assumed to the child reading system of the child reports and test assumed to the child reports and test assumed to the child report and test assumed to the child report and the child report and the child reports and the child report and the child reports and the child |  |
| <ul> <li>Providing insight to individualized learning: Exploring alternative learning: specialized schools, home<br/>schooling, online learning formats, educational therapists, tutors, homework helpers – study buddies,<br/>learning programs, school-based resource setting, 1-1 aides</li> </ul>  |  |
| Organization and Time Management   |  |
| <ul> <li>Developing home routines for school mornings, arrival to school, transitions at end of school day,<br/>homework, play and activities, next day planning (launching pad), bedtime</li> <li>Signed agenda books, schools online homework and grade sites, daily-weekly teacher-parent email</li> </ul>  |  |
| <ul> <li>Building and Fostering Self-Esteem and Success</li> <li>Catching the child/adolescent doing well, praise, reward (consequences), rewards charts</li> </ul>  |  |
| <ul> <li>Catching the child/adolescent doing well, praise, reward (consequences), rewards charts</li> <li>Therapy (Coaching) - individual, group, family, parent-child training; Cognitive Therapy; CBT, Problem-located therapy;</li> </ul>   |  |
| Team Building and Preservation for Life     Encouraging onceing multi-disciplinary care for your patient & parents through school, community, extended family, educational partnership; (OHADD), and health care resources   |  |
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| Non-medication Multimodal Therapy  |  |
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| Effective time management  |  |
| Organizational skill building  |  |
| Behavior modification/rewards systems  |  |
| Psychosocial individual/group support/family therapy   |  |
| Academic - Career accommodations/modifications   |  |
| Educational therapy/tutoring/coaching/     modeling/montoring  |  |
| modeling/mentoring   |  |
| Good humor   |  |
| Good Hullion   |  |
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| Fime Management   |  |
|---|--|
| Time management: PROCESS vs PRODUCT   |  |
| Goal: learn to predict then efficiently manage time needed for a specific task  • Over scheduling   |  |
| Overextending   |  |
| Consistency: regular, predictable, structured daily environment  • Habits   |  |
| Routines by time and tasks     Scheduling around events   |  |
| Places for everything and everything has its place  Rewards: positives for acceptable completions   |  |
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| Organization Tools  |  |
| Spaces     Work/study areas   |  |
| <ul> <li>Colorful, unique supply receptacles/containers</li> <li>Clutter control: see-through bins, large; divided laundry receptacles</li> </ul>                 |  |
| Electronics     Watches, alarms, timers, iphones, ipads     Reusable writing surfaces   |  |
| Boards: white, cork     Boards: white, cork     Laminated calendars, shopping/supply lists, daily schedules/routines, information lists (tele #8), rewards charts |  |
| Paper goods   |  |
| Daily plan, "do lists", future tasks, projects,     Hourly/daily/weekly/monthly/calendars; agenda books     "Sticky notes," index cards, stickers                 |  |
| People     Virtual alarm, timer, work buddy, shadow, monitor  |  |
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| Socialization Skills  |  |
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| Developing social awareness  • Practicing social skills: family meetings – a time to listen, to hear, voice perspective, share                                    |  |
| information and beliefs, solve and resolve concerns; family outings; visits to family and close friends, visits to cultural venues; pre-visitor preparation       |  |
| Defining acceptable behavior: home, school, work, community     Reading social cues: role playing, interpreting observed actions                                  |  |
| Curtailing impulsive actions: count to 10; stop look listen; take two deep breaths     Practicing skills to become a habit needs 30 days                          |  |
| Providing pre-preparation expectations: why, who, what, when where, how, how long     Setting and anticipating rewards and consequences                           |  |
| Security and autochaining tempting and consequences   |  |
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| Socialization Supports   |  |
|--|--|
| Social skills groups   |  |
| Supervised play dates  |  |
| • School-based student groups  |  |
| • CHADD groups   |  |
| Solution-based therapy groups     Behavior modification therapy  |  |
| Meta-cognitive therapy   |  |
| • Couples therapy  |  |
| • Family therapy   |  |
| Behavioral contracts, team building  |  |
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| Academic Supports  |  |
| Control of the contro |  |
| <ul> <li>Create a continuum – home to school to home</li> <li>Inform teachers, school administrators, support staff in direct</li> </ul>   |  |
| contact with the ADHD child of diagnosis, interventions, and   |  |
| supportive plans  • Develop direct communication lines to teacher(s)   |  |
| <ul> <li>Written and verbal: daily log book, agenda, email, phone message</li> </ul>   |  |
| numbers  Regular communication schedules: daily, weekly, urgent  |  |
| <ul> <li>Monitor school and teachers' online assignment &amp; grade</li> </ul>   |  |
| portals  • Practice same to similar rewards/consequences in all  |  |
| education arenas: home, school, tutorials, families' homes   |  |
| <ul> <li>Remind parents to not ask nor expect teachers to do what<br/>they do not plan to reinforce or support</li> </ul>  |  |
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| Study/Work Tools   |  |
| ,,   |  |
| Home set of textbooks: <u>www.Amazon.com</u> , request from school   |  |
| Chapter questions/summaries; class notes   |  |
| Books by download or on CD, dictionary   |  |
| Computer/Electronic Writer: controlled internet access; cut and paste, spell check,  |  |
| Thesaurus  |  |
| Paper: lined, grid/graph, colored; folders   |  |
| Pens, pencils, sharpener, highlighters, crayons, color markers     Sciencers, tanger standar ellips, alwaystick  |  |
| Scissors, tape, stapler, clips, glue stick     Flack cards, index cards, cticky nates, bookmarks   |  |
| • Flash cards, index cards, sticky notes, bookmarks  |  |
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| Further Supporting School Wo   | rk Completion   |  |
|--|---|--|
| Educational therapists   |   |  |
| • Coaches  |   |  |
| • Tutors: adult, teen, peers   |   |  |
| Study buddies     Parent exchanges   |   |  |
| Learning programs: Kumon, Huntingtor<br>LindaMoodBell, Brain Balance   | n, Mathnasium, Sylvan, SCORE, Kaplan,   |  |
| <ul> <li>School/community intervention progra<br/>school, public library reading</li> </ul>  | ms: after-school intervention, Saturday   |  |
| After-school homework clubs, Martial A   | Arts Studios  |  |
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| Attention Deficit v  | s Learning Disability   |  |
| IDEA - "The Individuals with Disabilities Education Act" PL 94-452 1990, reauthorized 1997, 2004     FAPE - Free Appropriate Public Education, regardless of ability   |   |  |
|  | a assessment for needed services and accommodations   |  |
| <ul> <li>Reading, Written expression, Mathematics</li> </ul>   | cribed within the child's Individual Education Plan (IEP)   |  |
| Source for learning, wholses per subject per day, evaluation criteria     ADHD and an IEP     OHI designation – Other Health Impaired: Cannot access the curriculum without accommodations, modifications in learning     Section 504     Student not meeting IEP criteria, but in need of accommodations for learning |   |  |
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| Comparison of Eligibility  |   |  |
| - IDEA Madifications   | a FOA Accommodations  |  |
| IDEA Modifications     Responsibility lies w/institution   | 504 Accommodations     Responsibility lies w/family   |  |
| <ul> <li>Mandated timely procedures for start,<br/>continuation and reviews</li> <li>Federal/State fiscal support</li> </ul>   | As-needed reviews     Institutional fiscal support  |  |
| Rights of consent to changes, due process     Stay-put provisions  | Right to notice for changes     Changes permitted during a challenge     Similar to IDEA services |  |
| Available pre-existing options   | Faster, more flexible, less stigmatizing, less challenging to school & district                   |  |
|  | Greater chance that teachers are unaware  |  |
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| Diamains the Cabe of Mark Day  |  |
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| Planning the School/Work Day   |  |
| Tomorrow begins tonight:  Clean up school work space   |  |
| <ul> <li>Collect all school work, books, supplies into folders and backpack</li> <li>Set backpack, other school and after-school needs: PE clothes, non-</li> </ul>  |  |
| pershable lunch and container, shoes, coat & hat, sports equipment in<br>'staging area' closest to the door out - to car or bus  • Pack lunch, snacks, drinks together on a refrigerator shelf   |  |
| Fack funcing stacks, united segerated on a reinigeration strein     Arrange tomorrow's clothes on chair near bed (for those who cannot decide or change their minds allow 2 sets of clothes)   |  |
| Arrange ADL supplies in/near bathroom     Check that daily routine list is posted  |  |
| <ul> <li>Consider variations of the next day and adjust for</li> <li>Allow free time before bed</li> </ul>   |  |
| <ul> <li>Set alarms</li> <li>Institute bedtime routine: 9 hours sleep minimum, all visual electronics off</li> </ul>   |  |
| 1 hour before bedtime; reading, story telling, listening to music etc  |  |
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| Starting the School/Work Day   |  |
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| Alarms: 1 or more, "snooze time", adult reminder   |  |
| Bathroom ADLS using check list   |  |
| Dressing from pre-selected clothes (girls may need two choices)     Breakfast: high protein, balanced; on-the-go   |  |
| Disallow TV, computers, cell phones, video games: distractions prior to  |  |
| school – read if ready   |  |
| Gather supplies: pre-packed foods from refrigerator shelf, staging area  |  |
| Off to school/work on time   |  |
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| Completing the School/Work Day   |  |
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| <ul> <li>Schedule routine after-school learning time, expecting student to use the time<br/>fully with review, study, reading after homework is completed</li> </ul>   |  |
| <ul> <li>Return home to designated "work" area unpacking assignments, work to<br/>complete, needed supplies; completed and returned work into filing crate</li> <li>Allow 15-30 minute snack/relax time: deferring electronics, texting, email, mail,</li> </ul> |  |
| telephone  • Assess tasks to complete and anticipated time needed for each: parental oversight, chunk tasks, include parts of long-term projects   |  |
| <ul> <li>Begin work with most difficult, least interesting work</li> </ul>   |  |
| <ul> <li>Take the parent out of homework: supervising, checking in, helping on difficult<br/>tasks at end – be best to utilize a non-family 'homework helper'</li> <li>Schedule breaks, use a timer</li> </ul>   |  |
| <ul> <li>Schedule Dreaks, use a timer</li> <li>Check all work for completeness, accuracy, neatness; help student with difficult<br/>and new concepts; sign agenda book, paperwork, notes, permissions</li> </ul>   |  |
| <ul> <li>Monitor that student packs up all work, returns supplies to containers, places<br/>returning items to staging area</li> </ul>   |  |
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| Modeling Acceptance and Support for Patients with ADHD   |  |
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| Be proactive: self-educate about ADHD diagnoses & treatments   |  |
| <ul> <li>Practice within applicable standardized protocol</li> <li>Individualize clinical practice — can use existing algorythms as guides to diagnosis</li> </ul>   |  |
| and therapy  • Provide privacy and confidentiality in discussions and when planning care/medication  |  |
| Look for patient's personal and academic/occupational/professional strengths   |  |
| Be alert for signs of co-morbid behaviors     Catch pediatric patients "being good"  |  |
| Congratulate successes of all patients/families  |  |
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| Attention Deficit  |  |
| or<br>Attention Getting Disorder?  |  |
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| Key Impairments of Undiagnosed-Untreated  Adult ADHD   |  |
| Poorly developed learning & academic/trade skills  |  |
| <ul> <li>Concentration problems</li> <li>Organization &amp; planning problems - forgotten obligations</li> </ul>   |  |
| Poor concept of time - often late  |  |
| Impulsivity – verbal & physical     Job instability  |  |
| Lowered economic independence  |  |
| Marital and relationship difficulties     Anger management issues  |  |
| <ul> <li>Affective dysregulation leading to emotional/mental health</li> </ul>   |  |
| issues 42  |  |

| Dramasis for Davones with ADUD  |  |  |   |
|---|--|--|---|
| Prognosis for Persons with ADHD   |  |  |   |
|   | Improvement of symptoms via learned compensatory & |  |   |
|   | coping strat<br>• 15-65%                           | egies<br>"outgrow" in young adulthood (@ 25<br>years of age), do well as adults            |   |
|   | • 50-60%   | persist & experience interpersonal,<br>social, employment difficulties                     | - |
|   | • 10-15%   | develop severe antisocial problems,<br>depression, and/or substance abuse                  |   |
|   | • 50%  | diagnosed, untreated ADHD persons<br>will become SUD (tobacco, alcohol, un-                |   |
|   |  | prescribed drugs of abuse) users or addicted   |   |
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| Referral  | sources  |  |   |
|   |  | ry, neurology, developmental pediatrics, headache clinics                                  |   |
| Occupation     Speech the   |  | /fine motor evaluation and interventions   |   |
| individual/f  | amily/group the                                    |  |   |
|   |  | nistrators, counselors, teachers, nurses<br>vidual or commercial; subject or task specific |   |
| Tutors, mentors, coaches     Health educators: nutritionists, exercise/sport mentors  |  | sts, exercise/sport mentors  |   |
| Parenting g   | roups: CHADD                                       |  |   |
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| Docour  | os lour  | nale   |   |
| Resources - Journals  • American Journal of Psychiatry ajp.psychiatryonline.org  • Journal of the American Academy of Child and Adolescent Psychiatry www.jaacap.org  • Journal of Attention Disorders  • Pediatrics  • Journal of Pediatrics  • Attention www.chadd.org/attention_magazine |  |  |   |
|   |  | American Academy of Child and Adolescent   |   |
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|   | <ul> <li>Additude ww</li> </ul>                    | w.additudemag.com  |   |
| Journal of Child Psychiatry     Archives of Pediatric and Adolescent Medicine     Child Development   |  | ediatric and Adolescent Medicine   |   |
|   | zima beveloj                                       |  |   |

| Resources - Websites  |  |
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| www.aap.org: nichq Vanderbilt ADHD ratings     www.ncbl.nim.nih.gov     www.ncbl.nim.nih.gov     www.nchadd.org     www.helpAadhd.org     www.addorg     www.addorg      www.addorg      www.addorg      www.supportforadd.com     www.addolasses.com     www.addolasses.com     www.addolasses.com     www.addolasses.com     www.addolasses.com     www.hcp.med.harvard.edu/ncs/asrs.php     www.hcp.med.harvard.edu/ncs/asrs.php     www.justice.gov/dea |  |
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| References  |  |
| <ul> <li>Barkley, RA (1997). ADHD and the Nature of Self-control. NY:Guilford.</li> <li>Brown, TE (2013). A New Understanding of ADHD in Children and Adults: Executive function impairments. NY:Routledge.</li> </ul>  |  |
| <ul> <li>Kemper. KJ (2010). Mental Health Naturally: The family guide to holistic care for a healthy<br/>mind and body. NY:Guilford</li> </ul>  |  |
| <ul> <li>Opas, SR (2018). Attention Deficit Hyperactivity Disorder and Coexisting Disorders,<br/>Chapter 18, pp215-233 in Behavioral Pediatric Healthcare for Nurse Practitioners (D.<br/>Hallas ed) NY:Springer.</li> </ul>  |  |
| Riddle, MA (2016). Pediatric Psychopharmacology: For primary care. Elk Grove: AAPeds.   |  |
| <ul> <li>Sonuga-Barke, EJS (2013). Nonpharmacological Interventions for ADHD: Systematic<br/>Review and Meta-Analyses of Randomized Controlled Trials of Dietary and Psychological<br/>Treatments. American Journal of Psychiatry, 170(3):275-289</li> </ul>  |  |
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