





# **Medication Management**

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Successful Completion
Successful completion of this activity, which includes participating in the educational offering, participating in the evaluation process, and completing the verification of attendance, enables the learner to satisfy the requirements for continuing education.

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The University of Missouri - Columbia School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

LPC, Social Work, Psychology, 50-minute hour CEs

The University of Missouri Continuing Education for Health Professions (CEHP) is part of an accredited university in the state
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#### **ECHO Autism: Behavior Solutions in Hospitals**

**Relevant Financial Relationship Disclosures** 

Current ACCME (Accreditation Council for Continuing Medical Education) rules state that participants in CE activities should be made aware of any relevant affiliation or financial interest in the previous 24 months that may affect the planning of an educational activity or a speaker's presentation(s). Each planning committee member and speaker has been requested to complete a financial relationship reporting form for the ECHO Autism: Behavior Solutions in Hospitals

#### Speaker Disclosures:

Kristin Sohl, MD,FAAP receives support:

•Cognoa Behavior Health - research support

•Quadrant Biosciences – medical science collaborator

All relevant financial relationships for the presenter(s) have been mitigated.

No other speaker or planning committee member has a relevant financial interest

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#### Goal

- Review the overall approach to the use of psychopharmacology as a component of comprehensive care in patients with autism spectrum disorders for
  - The treatment of co-occurring psychiatric disorders
  - The symptomatic management of challenging behaviors
- Resources attached for a clinical pathway for agitation management



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## Patients with ASD receive a lot of psychotropic medications

• Review of 47 studies of more than 300,000 ASD patients -



- Prescriptions are for non-core symptoms and co-occurring psychiatric conditions
- Median prevalence of medication 41.9% in children; 61.5% in adults
- Polypharmacy 5.4%-54% (median 23%)
- Use of medication overall, polypharmacy, dopamine blocking (antipsychotics) and serotonergic (antidepressant/anxiety) medications were more prevalent in
   males, older patients, and those with co-occurring psychiatric conditions
- Patients placed on psychotropics tend to stay on them
- Younger patients get more stimulants
- Males get more dopamine blockers/stimulants; females more serotonergic
   (Jobski et al (2016))

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# Psychotropic medication regimes may be quite complex

For example -

- A study of severely affected patients showed that 70/1100 patients had more than one antipsychotic prescribed

  Males, intellectually disabled, mean age 15.1, targeted symptoms agitation/irritability, physical aggression and self injury

  Most stayed on two dopamine blockers for more than a year, and improved without significant adverse effects
- A study of inpatients at specialized psychiatric units showed that
- Over half the patients had more than one psychotropic prescribed
   Patients were on the same number of medications at discharge BUT a significant minority discontinued dopamine blockers/GI medications/sleep aids soon after

Wink et al 2017,2018



#### Before, during and throughout, thorough assessment is important

- · Assessment must always include -
  - · Careful and thorough biopsychosocial history
    - · Presenting complaint, with details
    - Is there a co-occurring psychiatric disorder?
    - What are the problem behaviors? How frequent? How long? How intense?
       Current and previous interventions
  - · Detailed mental status examination
  - Medical history, current prescriptions, vital signs, investigations where
  - · Collateral information
  - · Refer for further evaluations if needed\*\*\*



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### Safety and side effect monitoring is critical

- Younger patients/non verbal patients may not be able to communicate well about side effects
- ASD patients are on medications for a long time leading to longer term risk for certain medications
- Commonly used medications in ASD are stimulants and dopamine blockers (antipsychotics)
- Polypharmacy increases the likelihood of adverse drug interactions and adverse events with SSRI, antipsychotics, and benzodiazepines on the top FDA lists for adverse events





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# Be clear about the treatment goal

- Are you treating a <u>co-occurring psychiatric disorder</u>? If so, the goal is to reduce the symptoms of the disorder, and the strategy is to utilize scientific understanding of brain mechanisms, evidence based decision making and approved treatment guidelines for that condition
- Or treating symptomatically?



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# Informed consent and assent



- No such thing as a 'safe' medication
- Risk benefit analysis is critically important
- The more dangerous the behavior, the greater may be the risk tolerance for an intervention
  - Medications that have more significant side effects can be given in settings where serious side effects can be monitored and addressed mostly commonly, that's the ED or inpatient
     Those medications may not be as safe in less carefully monitored environments (like home!!)



### Whether its treatment of a disorder, or management of symptoms, be clear about the goal

• Impulsivity? Anxiety? Agitation? Aggression? Self injury? Etc.

Identify measures and follow them

- Episodes Frequency? Intensity? Duration?
- Use appropriate rating scales where available

Review over time; be aware that hour to hour/day to day variation is considerable



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# **Agitation and aggression**

- Look for the cause of the symptom and treat the cause if possible
  - Agitation and aggression are commonly related to other issues, both physical and mental
     Pain headache, dental pain, congestion, etc.

    - Constipation or other g/I distress
    - Seizures
    - · Lack of sleep
    - Stress or anxiety
       Depression



- There is no good data that patients who are agitated/aggressive do better with PRN as a group than they do with placebo, so the evidence base for the use of PRN interventions for agitation/aggression is limited
- PRN medication for aggression/agitation should be given in a setting where serious side effects can be monitored and addressed mostly commonly, that's the ED



# As needed (PRN) medications for symptom management in residential and hospital settings may include prescription medications

- As part of a comprehensive intervention that addresses underlying causes, and uses psychosocial and behavioral interventions
- · Includes detailed informed consent
- Must have a formal prescription that includes
  - Dose
- Frequency, e.g. twice a day, four hourly, etc.
  - Indication, e.g. for pain, for constipation, etc.



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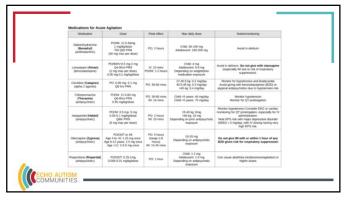
# **Symptomatic treatment**

- Goal is to CALM and not to SEDATE
- Medications used, often prn, for agitation and aggression (benzodiazepines, antipsychotics and antihistamines) are all sedating and all have significant side effects
  - In combination with other medications, or even alone, may cause potentially dangerous side effects, including respiratory depression



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## Be realistic with patients, parents and colleagues

- Psychotropic medication management is never the whole plan; it's part of the plan
- Psychotropic medication management is never 'just' medication management
  - medication management ALWAYS includes psychoeducation and supportive therapy and OFTEN includes behavioral advice and elements of other forms of therapy
- Psychotropic medication can be life changing BUT
  - Not everything responds to medication
  - Not everyone responds to medication



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# Follow up



- Communication with the patient and their family is critically important
- Frequent communication means that the interpretation of changes in behavior is more reliable, families and patients feels supported
- Engagement in treatment is supportive for patient and family, even if no 'formal' psychotherapeutic intervention occurs
- $\circ$  Do not under-estimate the importance of the ongoing patient-family-physician-clinician relationships



## **Guidelines on medication utilization in urgent** settings for ASD

- Start low/go slow may not apply
   Be aware that patients with ASD have higher rates of side effects
- Response may be unpredictable
- Limitations in patient communication make monitoring more difficult
- Use ONE medication if possible
- Reduce/omit dosing regularly to establish ongoing benefit
- Collaborate with others treating the patient



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