

Child & Adolescent Psychiatry Alerts 2019 Self-Assessment Module 2: Peer Comparison

You recently participated in an ABPN-approved Self-Assessment activity relevant to your specialty and/or subspecialty. This peer comparison report provides you with feedback on your performance, relative to your peers, on the test module. In order to recognize your current knowledge base and to identify specific topics where further study may be needed, please review your answers to the following questions and compare them with those of your peers.

1) Studies in adults have shown that antidepressants have rapid effects on neural activity within hours of administration, before any clinical effects are noticed. These changes may be a critical mechanism by which antidepressants reduce negative biases and increase the processing of positive information, leading to clinical improvement.

True	100.00 %
False	0.00 %

2) A group of adolescents with major depression demonstrated alterations in corticolimbic circuitry activity in response to angry facial expressions following a single dose of fluoxetine (Prozac). These changes may represent a key mechanism by which fluoxetine improves the response to anger and irritability and enhances _____ in adolescent depression.

Resiliency	0.00 %
Mood	0.00 %
Self-regulation	80.00 %
All of the above	20.00 %

3) In the study, fMRI showed adolescents who received fluoxetine experienced reduced activation in response to anger and increased activation in response to happiness in which brain region(s)?

The hippocampus	0.00 %
The dorsal anterior cingulate cortex	0.00 %
The amygdala	0.00 %
All of the above	100.00 %

4) In patients with new-onset schizophrenia, fMRI studies found cognitive control deficits were present at baseline and _____ over time.

Worsened	20.00 %
Remained stable	80.00 %
Improved	0.00 %

5) In these patients, cognitive performance and activation were not influenced by gender or the duration of untreated psychosis, but were negatively affected by higher levels of _____, disorganization, and poverty and by lower levels of function.

Reality distortion	100.00 %
Antipsychotic use	0.00 %
Comorbid depression	0.00 %
All of the above	0.00 %

6) Risperidone is primarily metabolized by the cytochrome P450 enzyme CYP2D6, whose function varies from absent to ultrarapid. Results of a retrospective study suggest that children and adolescents determined to be poor or intermediate metabolizers of CYP2D6 are at _____ risk of risperidone adverse events.

Decreased	0.00 %
Increased	100.00 %

7) What percent of patients in the study population were determined to poor or intermediate CYP2D6 metabolizers?

80	0.00 %
47	0.00 %
13	100.00 %
2	0.00 %

8) Clinical CYP2D6 testing is available from both commercial and academic labs. Pretreatment genetic testing to identify high-risk status may be beneficial in patients already at increased risk for risperidone adverse effects or with conditions risperidone may aggravate, such as obesity or neurological disorders.

True	100.00 %
False	0.00 %

9) Based on the results of this study, _____ should be considered for young patients who take risperidone and have impaired CYP2D6 function.

Lowered risperidone dosages	0.00 %
Concomitant treatment with a CYP inducer	0.00 %
An alternate treatment	100.00 %
None of the above	0.00 %

10) Weight gain is an important limiting factor in the long-term use of second generation antipsychotics. In an observational study, children who received treatment with aripiprazole or risperidone gained excessive weight until a plateau between excessive weight and obesity was reached during adolescence.

True	100.00 %
False	0.00 %

11) In the study, adolescents who took _____ showed significant increases in BMI z scores, indicating greater weight gain relative to height than their peers.

Either risperidone or aripiprazole	0.00 %
Risperidone	0.00 %
Aripiprazole	100.00 %
None of the above	0.00 %

12) A brain imaging study in young patients with anxiety disorders found reduced connectivity of the uncinate fasciculus (UF), a white matter tract critically involved in emotion regulation by linking the amygdala with regulatory prefrontal cortical regions, in preadolescent:

Boys only	100.00 %
Girls only	0.00 %
Boys and girls	0.00 %

13) The study results indicate that diminished UF connectivity is present early in life in children with anxiety disorders and is not associated with disease chronicity or:

Environmental factors	0.00 %
Medication exposure	100.00 %
Trauma exposure	0.00 %
Familial transmission	0.00 %

14) According to the updated clozapine Risk Evaluation and Mitigation Strategy (REMS) Program, outdated absolute neutrophil count (ANC) levels will not prevent a pharmacy from dispensing clozapine. However, if the most recent ANC on file for a patient indicates moderate or severe neutropenia, clozapine cannot be dispensed unless the prescriber documents that the benefits of treatment outweigh the risks associated with neutropenia.

True	100.00 %
False	0.00 %