

Self-Assessment Test

Prevention and Treatment of an Oncologic Emergency: Focus on Tumor Lysis Syndrome

This program is located at <http://esymposia.ashp.org/TLS2>



This self-assessment test has been provided as a study aid only. At the conclusion of the internet-based program, click on "Take CE Test" to proceed to the ASHP Learning Center and take the on-line program post-test. You may print your CE statement immediately after successful completion of the post-test.

There are a total of 10 questions associated with this test.

1. Which of the following is not a laboratory abnormality associated with tumor lysis syndrome?
 - a. Hypercalcemia
 - b. Hyperphosphatemia
 - c. Hyperkalemia
 - d. Hyperuricemia

2. Which of the following patients would be considered to be at highest risk for developing TLS?
 - a. A 50 year old woman with mild renal insufficiency and a new diagnosis of localized breast cancer
 - b. A 68 year old male with a new diagnosis of ALL, with a presenting WBC count of 75
 - c. A 47 year old male with chronic phase CML and a WBC count of 75
 - d. A 26 year old male with a new diagnosis of a germ cell tumor

3. The renal dysfunction associated with TLS can be due to all of the following EXCEPT
 - a. Uric acid nephropathy
 - b. Tumor invasion
 - c. Hypovolemia
 - d. Ischemia

4. Hydration for the prevention of TLS in adults should target a urine output of
 - a. 30 ml/m²/hr
 - b. 50 ml/m²/hr
 - c. 100 ml/m²/hr
 - d. 200 ml/m²/hr



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5. What is the allopurinol's mechanism of action?
 - a. Inhibition of xanthine oxidase
 - b. Inhibition of urate oxidase
 - c. Induction of urate oxidase
 - d. Solubilization of uric acid

 6. Is the following statement true or false? Single dose rasburicase at a dose of 0.15mg/kg was found to be equally efficacious as multiday therapy for the treatment of tumor lysis syndrome.
 - a. True
 - b. False

 7. The drawbacks of allopurinol therapy include all of the following EXCEPT
 - a. Increased risk of methemoglobinemia with prolonged therapy
 - b. Delaying the initiation of chemotherapy
 - c. It may cause xanthine nephropathy
 - d. It take 3 days to see full effects

 8. Allopurinol should not be administered, if possible, with which of the following drugs?
 - a. Metoprolol
 - b. Amlodipine
 - c. Diltiazem
 - d. Lisinopril

 9. All of the following are tumor specific risk factors for tumor lysis syndrome EXCEPT
 - a. High chemosensitivity
 - b. Bone marrow involvement
 - c. Large tumor burden
 - d. High tumor proliferation rate

 10. Which of the following agents can be used to augment forced diuresis by hydration?
 - a. Furosemide
 - b. Hydrochlorothiazide
 - c. Sodium bicarbonate
 - d. Spironolactone
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