

# Medical Coverage Policies

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## Cytotoxic Leukocyte Testing

<b>EFFECTIVE DATE</b>	02/19/2008	<b>LAST UPDATED</b>	02/17/2009
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### Description:

The cytotoxic leukocyte test (also known as Bryan's Test, leukocytotoxicity test, leukocytic food allergy test, cytotoxic test, metabolic intolerance test, or sensitivity testing) involves adding a food allergen to a blood sample. The sample is then examined under a microscope at various intervals to verify if the white blood cells (leukocytes) have changed shape or were destroyed. The theory is that any change in the blood cells is a sign of allergy to the particular food.

Cytotoxic leukocyte testing has not been approved by the Food and Drug Administration. There is insufficient evidence in the published, peer-reviewed, scientific literature to support the use of cytotoxic leukocyte testing in the diagnosis and treatment of allergies.

### Medical Criteria:

Cytotoxic leukocyte testing is considered **not medically necessary** as there is insufficient evidence in published, peer-reviewed literature to support its use.

### Policy:

Cytotoxic leukocyte testing is considered **not medically necessary** as there is insufficient evidence in published, peer-reviewed literature to support its use.

### Coverage:

Benefits may vary between groups/contracts. Please refer to the appropriate member certificate, subscriber agreements, or BlueCHIP for Rlte Care contract for applicable "Not Medically Necessary Services."

### Codes:

There is no specific CPT code regarding cytotoxic leukocyte testing.

### Also Known As:

Bryan's Test  
Leukocytotoxicity test  
Leukocytic food allergy test  
Cytotoxic test  
Metabolic intolerance test  
Sensitivity testing

### Related Topics:

Not applicable.

### Published:

*Policy Update, May 2007*  
*Provider Update, April 2008*  
*Provider Update, June 2009*

## References:

American Academy of Allergy: Position Statement 8, Controversial Techniques; Journal of Allergy and Clinical Immunology 67:333-338, 1980. Reaffirmed in 1984.

Cytotoxic testing for allergic diseases. FDA Compliance Policy Guide 7124.27, 3/19/85, Updated in 1995. Retrieved 1/11/2008 from: [http://www.fda.gov/ora/compliance\\_ref/cpg/cpgdev/cpg370-100.html](http://www.fda.gov/ora/compliance_ref/cpg/cpgdev/cpg370-100.html).

Centers for Medicare and Medicaid Services, Medicare Coverage Database. NCD for CYTOTOXIC Food Tests (110.13) Retrieved 1/20/09 from: [http://www.cms.hhs.gov/mcd/viewncd.asp?ncd\\_id=110.13&ncd\\_version=1&basket=ncd%3A110%2E13%3A1%3ACytotoxic+Food+Tests](http://www.cms.hhs.gov/mcd/viewncd.asp?ncd_id=110.13&ncd_version=1&basket=ncd%3A110%2E13%3A1%3ACytotoxic+Food+Tests).

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