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# 2011 DTIC CONFERENCE

*DTIC: Your Authoritative Source of Defense Information for the Front Line and the Homeland*

**April 4-5, 2011**

## **Expand Your Research with DTIC MultiSearch**

**5 April 2011**

**Mr. Ricardo Thoroughgood**

**Ms. Wendy Hill**

Approved for Public Release

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*Information for the Defense Community* 



# MultiSearch

**Mr. Ricardo Thoroughgood,**  
Chief, STINET Management Division, DTIC

**Ms. Wendy Hill**  
S&T Outreach Liaison, DTIC



# *Wendy's Top Ten\* Reasons to Use MultiSearch*

\*With Apologies to Dave Letterman

# 1. It's Easy



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DTIC has a new public search. The prototype is running in parallel and will soon replace the current DTIC Online search. Please try our beta Search now and send us your Feedback.

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### Provider of DoD Technical Information to Support the Warfighter

The Defense Technical Information Center (DTIC®) serves the DoD community as the largest central resource for DoD and government-funded scientific, technical, engineering, and business related information available today .  
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## DoD R&E Success Story



Officials Certify First Aircraft for Biofuel Usage

The certification for usage of HRJ biofuel blended with petroleum-based JP-8 fuel represents part of ongoing efforts by Air Force officials to certify and test biofuels from non-petroleum sources.

[Full Story](#)



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The Defense Information **MultiSearch** Center (DTIC) is the premier source of DoD technical information. DTIC is a DoD Field Activity under the Under Secretary of Defense for Acquisition, Technology and Logistics, reporting to the Director, Defense Research and Engineering (DDR&E).

Private STINET is now integrated with DTIC Online Access Controlled (DOAC), the gateway to all of DTIC's science and technology resources, including:

- Technical Reports
- Research Summaries
- Independent Research and Development (IR&D).

These databases are included with Technical Reports or Research in Progress collections in the DOAC drop-down banner search. Also, to search your favorite databases on DOAC together or individually, click on "More Search Options" and select the specific collection(s). Search Tips are available on the same page.

For assistance, contact 1-800-225-3842 or send your specific questions to [dtic-online@dtic.mil](mailto:dtic-online@dtic.mil).

**TEMS** The Total Electronic Migration System (TEMS) provides access to the full online collection of Information Analysis Center (IAC) scientific and technical information. TEMS provides over 1,000,000 citations and 140,000 downloadable full text documents.



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### Officials Certify First Aircraft for Biofuel Usage

The certification for usage of HRJ biofuel blended with petroleum-based JP-8 fuel represents part of ongoing efforts by Air Force officials to certify and test biofuels from non-petroleum sources. [Full Story](#)

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The [Research and Engineering \(R&E\) Database Search](#) allows you to query responses by agencies and the services to the DoD E-Gov Data Calls. Records start with FY2006 and are updated annually. Your search findings will align with your DTIC access level. All displays represent the material as it was provided to DTIC, with the exception of the financial values. These have been converted to \$K for consistency.

[Access to Data Controlled by Distribution Code](#)

DoD Congressional Budget

Two sites provide information on Congressional Budget changes to the President's Budget Request (PBR).





## 2. It's a Great Place to Start

- Simultaneously searches multiple sources
  - Government
  - International
  - Commercial
- No registration required
- Source(s) with hit count displayed with results

# All? Some? Expand/Contract

All Sources

DTIC - Online Reports Database and Other Resources

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*The primary purpose of these reports is to disseminate the results of scientific and technical research. Many of the collections described are not limited solely to scientific and technical information but contain additional information relevant to the DoD mission.*

[SCAMPI \(Joint Forces Staff College\)](#)

*The Joint Forces Staff College Library is a specialized military library, focusing on research in joint and multinational operations, military history and naval science, operational warfare, and operations other than war. Library staff members regularly scan the weekly news magazines, monthly and bimonthly journals such as Military Review, Armed Forces Journal, and quarterly publications, including NATO's Nations and Partners for Peace, RUSI Journal, and the Naval War College Review.*

[AULIMP \(Air University Library\)](#)

*The Air University Library's Index to Military Periodicals is a subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.*

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*Research and Development Descriptive Summaries (RDDS) furnish narrative and budgetary information on Research, Development, Test and Evaluation (RD&T&E) programs and Program Element (PE) numbers*

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## MultiSearch

Full Record:   
Title:   
 Author:   
Match: All  Field(s)  
Date Range:  Pick Year to  Pick Year

All Sources

DTIC - Online Reports Database and Other Resources

[DTIC Technical Reports Collection](#)

*The primary purpose of these reports is to disseminate the results of scientific and technical research. Many of the collections described are not limited solely to scientific and technical information but contain additional information relevant to the DoD mission.*

[SCAMPI \(Joint Forces Staff College\)](#)

*The Joint Forces Staff College Library is a specialized military library, focusing on research in joint and multinational operations, military history and naval science, operational warfare, and operations other than war. Library staff members regularly scan the weekly news magazines, monthly and bimonthly journals such as Military Review, Armed Forces Journal, and quarterly publications, including NATO's Nations and Partners for Peace, RUSI Journal, and the Naval War College Review.*

[AULIMP \(Air University Library\)](#)

*The Air University Library's Index to Military Periodicals is a subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.*

[Research and Development Descriptive Summaries \(RDDS\)](#)

*Research and Development Descriptive Summaries (RDDS) furnish narrative and budgetary information on Research, Development, Test and Evaluation (RD&T&E) programs and Program Element (PE) numbers*



# 3. You Get Results With Choices

- Search Details
- “Clusters” a quick way to focus (topics, authors, publications, etc.)
- Sources searched and number of items retrieved
- Wikipedia Link (subject specific)
- EurekaAlerts!



Search **DoD Sites & Collections**   [More Search](#)

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## MultiSearch

Your search: **Full Record: traumatic brain injury** yielded 1,880 top results from at least 3,184,325 found.

Results 1 – 25 of 379

Sort by: Rank

Limit to: All Sources

[Your Clippings \(0\)](#) [Clear Clippings](#) [Email Results](#) [Session Preferences](#) [Advanced Search](#)

**\*\*\*\*** [Traumatic Brain Injury](#)

... of people in the U.S. sustain head and **brain injuries**. More than half are bad enough that people ... **brain damage** **traumatic brain injuries** (TBIs) are due to motor vehicle accidents. Military ...  
National Library of Medicine  
NIH MedlinePlus

**\*\*\*\*** [Traumatic Brain Injury](#)

X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head ... This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
NIH MedlinePlus

**\*\*\*\*** [Traumatic Brain Injury](#)

**Traumatic brain injury** Emily Gilmore, MD and Steven Karceski, MD Next Section WHAT WAS THE STUDY A completely. Previous Section Next Section About **traumatic brain injury** Previous ...  
American Academy of Neurology  
NIH MedlinePlus

**\*\*\*\*** [Traumatic Brain Injury](#)

... in her. Back to Top What is **Traumatic Brain Injury**? A **traumatic brain injury** (TBI) is an **injury** ... and youth Definition of "**Traumatic Brain Injury**" ...  
National Dissemination Center for Children with Disabilities  
NIH MedlinePlus

**\*\*\*\*** [Traumatic Brain Injury](#)

... Organizations Additional resources from MEDLINEplus What is **Traumatic Brain Injury**? **Traumatic brain injury** tbi/index.htm NIH Patient Recruitment for **Traumatic Brain** ...  
NIH MedlinePlus

**\*\*\*\*** [Traumatic Brain Injury](#)

... partnership with Lifetime Television and Army Wives . **Traumatic Brain Injury** **Traumatic brain injury** (TBI) is ... recover if a TBI occurs.

### Collection Status

Collection Name	Results	Totals
AGRICOLA Articles Database	✓ 49	49
AGRICOLA Books Database	✓ 5	5
Air University Research Information Management System (AURIMS)	✓ 1	1
Army Pubs	✗ 0	0
ASSISTdocs	✓ 0	0
AULIMP (Air University Library)	✓ 20	384
Bosun (Naval Postgraduate School)	✗ 0	0
Center for Army Lessons Learned	✓ 100	100
Combined Arms Research Library, Digital Library TRADOC, US Army	✓ 20	20
CRS Reports	✓ 9	9
Defense Supply Center Columbus	✓ 0	0
DOD SBIR/STTR Award	✗ 0	0
DOD web sites	✓ 20	168,234
DOD Wide Science & Technology Websites	✓ 100	5,355
DOE Energy Citations Database	✓ 83	83
DOE Information Bridge	✓ 63	63
DOE R&D Accomplishments Database	✓ 0	0
DOE R&D project Summaries Database	✓ 32	48
DTIC Corporate Source	✓ 0	0
DTIC Technical Reports Collection	✓ 10	222
DTIC Thesaurus	✓ 0	0
Environmental Information Management System (EIMS) Server	✓ 4	4
Environmental Protection Agency (EPA) Reports	✓ 88	169,000
EPA Science Inventory	✓ 4	4
FDA Center for Biologics Eval & Research	✓ 10	99
FDA Center for Drug Eval & Research	✓ 6	6
FDA Center for Food Safety	✓ 1	1
Library of Congress	✓ 52	285
NASA Technical Reports Server	✓ 0	0
NASA Web Site	✓ 38	2,820,000
National Science Foundation	✓ 15	15

### Clusters

- All Results (379)**
- Topics
  - Jump to Main Content (54)
  - Research (35)
  - TBI (33)
  - Technology (28)
  - Effects (23)
  - More...
- Authors
  - Bearinger, J. P. (3)
  - Bowen, I. G. (3)
  - Frincke, D. (2)
  - Apling, Richard N. (2)
  - Longwell, B. B. (2)
  - More...
- Publications
  - Defense Centers of Excellence for Psychological Health & **Traumatic Brain**

# Click or Type to Choose

Less? Add a term

Not what you wanted? Begin again

Refine Search

New Search

## Clusters

### All Results (1716)

#### Topics

- TBI (154)
  - TBI Patients (52)
  - Effects (39)
  - Following TBI (39)
  - Increased (42)
  - Mild TBI (25)

#### More...

- Following Traumatic Brain Injury (94)
- Program (60)
- Mild Traumatic Brain Injury (58)
- Head Injury (58)

#### More...

#### Authors

- Available, No D. (8)
- Johnson, J. R. (6)
- Moss, W C King, M J (6)
- Frincke, D. (6)
- Blackman, E. G. (6)

#### More...

#### Publications

- AES Convention (52)
- Wilderness & Environmental Medicine (51)

Search for "traumatic brain injury" yielded at least 837,583 found.

Change display order

- Rank
- Rank
- Date
- Title
- Author

Limit to: All Sources

Home My Account My Alerts Session Preferences Advanced Search Print Page

Expand/Choose to see/focus on specific

Choose one source

Rank

Limit to: All Sources

- CRS Reports
- DOD web sites
- DOD Wide Science & Technology Website
- DOE Energy Citations Database
- DOE Information Bridge
- DOE R&D project Summaries Database
- DTIC Technical Reports Collection
- Environmental Information Management System
- Environmental Protection Agency (EPA) Research
- EPA Science Inventory
- FDA Center for Biologics Evaluation & Research
- FDA Center for Drug Evaluation & Research
- NASA Technical Reports Server
- NASA Web Site
- National Science Foundation Awards
- National Service Center for Environmental Health
- National Technical Information Service (NTIS)
- NIH ClinicalTrials
- NIH MedlinePlus
- NIH PubMed
- NSF Publications Database
- Research and Development Descriptive Summary
- SCAMPI (Joint Forces Staff College)
- Science.gov Web Sites
- Scitopia
- US Government Accountability Office
- US Patent & Trademark Office Database
- USDA/Current Research Information System
- USGS NBII (National Biological Information Infrastructure)
- WorldWideScience

# 4. You Can Customize Your Session



Refine Search

New Search

Your search: **Full Record: "traumatic brain injury"**  
yielded 1,716 top results from at least 837,583 found.

52 of 52 sources complete.

Results 1 – 25 of 100

◀ ◁ 1 2 3 4 ▶ ▷

Sort by: Rank ▾ ↑

Limit to: DOD Wide Science & Technology Websit ▾

[Source Status](#)

[Your Clippings \(0\)](#) [Clear Clippings](#) [Email Results](#) [Session Preferences](#) [Advanced Search](#) [Print Page](#)

★★★★★ Traumatic Brain Injury (TBI) Study | RAND

Multisearch - Session Preferences - Windows Internet Explorer provided by DTIC IE8 New Sett...

### Session Preferences

**Results per page:** 25 ▾  
10  
15  
20  
25  
50  
100  
200  
250

**More Results Available Dialog:**

- Show dialog when search completes.
- Do not show dialog when search completes (use the status bar to view more results).

*These preferences only apply to the current session in your browser.*

# 5. It's Quick and EZ to Mark Clippings



Refine Search      New Search

Your search: **Full Record: "traumatic brain injury"** yielded 1,716 top results from at least 837,583 found. 52 of 52 sources complete.

Results 1 – 25 of 100      Sort by: Rank      Limit to: DOD Wide Science & Technology Websites      Source Status

[Your Clippings \(5\)](#)   [Clear Clippings](#)   [Email Results](#)   [Session Preferences](#)   [Advanced Search](#)   [Print Page](#)

## Clusters

All Results (1716)

- Topics
  - TBI (154)
    - TBI Patients (57)
    - Effects (39)
    - Following TBI (39)
    - Increased (42)
    - Mild TBI (25)
  - More...
  - Following Traumatic Brain Injury (94)
  - Program (60)
  - Mild Traumatic Brain Injury (58)
  - Head Injury (58)
- More...
- Authors
  - Available, No D. (8)
  - Johnson, J. R. (6)
  - Moss, W C King, M J (6)
  - Frincke, D. (6)
  - Blackman, E. G. (6)
  - More...
- Publications
  - AES Convention (52)
  - Wilderness & Environmental Medicine (51)

- [Traumatic Brain Injury \(TBI\) Study | RAND](#)  
2010-12-15  
...Traumatic Brain Injury (TBI) Study [Traumatic Brain Injury](#) Study Print Share [Traumatic Brain Injury](#) (TBI) has become a major concern for service...mild, moderate, or severe TBI due to head injuries or exposure to explosive blast waves. TBI...  
DOD Wide Science & Technology Websites
- [Innovative Practices for Psychological Health and Traumatic Brain Injury | RAND](#)  
2010-12-15  
...Innovative Practices for Psychological Health and [Traumatic Brain Injury](#) Print Share The RAND Corporation is conducting...designed to support psychological health (PH) and traumatic brain injuries (TBI) among service personnel and their families...  
DOD Wide Science & Technology Websites
- [RAND | Center for Military Health Policy Research | Traumatic Brain Injury \(TBI\) Study Contact](#)  
2010-10-15  
...Resources Project Staff Featured Project: [Traumatic Brain Injury](#) FAQs Contact Info Publication Highlights...Facebook on Twitter on YouTube Share [Traumatic Brain Injury](#) Study: Contact Information To participate in...  
DOD Wide Science & Technology Websites
- [RAND | Center for Military Health Policy Research | Traumatic Brain Injury \(TBI\) Study FAQs for](#)  
2010-11-15  
... [Traumatic Brain Injury](#) Study: FAQs for Participants...of this study? [Traumatic Brain Injury](#) (TBI) has become...severe TBI due to head injuries or exposure to explosive...for information on [Traumatic Brain Injury](#) (TBI). Who is...  
DOD Wide Science & Technology Websites
- [RAND | Center for Military Health Policy Research | Traumatic Brain Injury \(TBI\) Study Interviews](#)  
2010-12-04  
...on Twitter on YouTube Share [Traumatic Brain Injury](#) Study [Traumatic Brain Injury](#) (TBI) has become a major concern for service...experienced mild, moderate, or severe TBI due to head injuries or exposure to explosive blast waves. TBI can...  
DOD Wide Science & Technology Websites
- [TABLE OF CONTENTS](#)  
2010-10-12  
...therapeutic target following [traumatic brain injury](#). ATACCC 2001 2001:34...HH) acutely exacerbates [traumatic brain injury](#)-induced blood-brain barrier...in a small animal model of [traumatic brain injury](#). ATACCC 2001 2001:32...  
DOD Wide Science & Technology Websites
- [Stop Loss | RAND](#)  
2010-12-07  
...major depression, and [traumatic brain injury](#) (TBI). PTSD is often triggered...Afghanistan Experienced a [Traumatic Brain Injury](#) While Deployed Since 2001...Afghanistan Experienced a [Traumatic Brain Injury](#) While Deployed SOURCE...  
DOD Wide Science & Technology Websites
- [RAND Review, Vol. 32, No. 2, Summer 2008](#)

## Wikipedia

The source is currently unavailable.

## EurekAlert!

[U. of Colorado study shows acupressure effective in helping to treat traumatic brain injury](#)

A new University of Colorado Boulder study indicates an ancient form of complementary medicine may be effective in helping to treat people with mild [traumatic brain injury](#), a finding that may have implications for some ...

[Transatlantic Synergies To Promote Effective Traumatic Brain Injury Research \(Symposium\):...](#)

# 6. You Can Send Results to Yourself or Share

Refine Search      New Search

Your search: **Full Record: "traumatic brain injury"** yielded 1,716 top results from at least 837,583 found.      52 of 52 sources complete.

Results 1 – 25 of 100

Sort by: Rank      Limit to: DOD Wide Science & Technology Website

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by **Deep Web Technologies**

[Source Status](#)

Multisearch - Email Results - Windows Internet Explorer provided by DTIC IE8 New Settings

### Multisearch - Email Results

\* Email this to:   
Enter the email address of the recipient

\* Your Name:   
Will appear in the subject of the email

Write your own message to the recipient:

Number of results to return: ALL  
Email Format: HTML

Send these results

Done      Local intranet | Protected Mode: Off      100%

Multisearch - Email Results

\* Email this to:   
Enter the email address of the recipient

\* Your Name:   
Will appear in the subject of the email

Write your own message to the recipient:

Number of results to return: ALL  
Email Format: HTML

Send these results

recipient:

Multisearch - Email Results - Windows Internet Explorer provided by DTIC IE8 New Settings

Your email has been sent successfully!

Close this window

Number of results to return: ALL  
Email Format: HTML

Send these results



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Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

From: dtic@dtic.mil  
To: Hill, Wendy CIV DTIC B  
Cc:  
Subject: Wendy Hill has sent you search results

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This Email Service is provided by [Multisearch](#)

This is a test to see how the marked selections look.

**Multisearch Results**

1 [TRAUMATIC BRAIN INJURY](#)  
2010-08-03  
**TRAUMATIC BRAIN INJURY** (TBI) is a blow or jolt to the head or neck that disrupts the function of the brain. Not all blows or jolts to the head result in a brain injury.  
*DOD web sites*

2 [Traumatic Brain Injury](#)  
2008-07-30  
...someone who has had a head injury. March is **Brain Injury** Awareness Month. **Traumatic Brain Injury** (TBI) refers to the spectrum of head injuries from a mild bump of the head to a massive...  
*DOD web sites*

3 [Traumatic brain injury](#)  
Hansen, N.  
*WorldWideScience*

4 [Traumatic Brain Injury](#)  
X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head can cause damage to the brain. This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
*Patient Education Institute*  
*WorldWideScience*

5 [Traumatic brain injury](#)  
Morgan, A. T.; Ward, J. L.  
*WorldWideScience*



# DTIC ALERTS

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This Email Service is provided by [Multisearch](#)

This is a test to see how the marked selections look.

**Multisearch Results**

1 [TRAUMATIC BRAIN INJURY](#)  
2010-08-03  
**TRAUMATIC BRAIN INJURY** (TBI) What is **traumatic brain injury**? A **traumatic brain injury** (TBI) is a blow or jolt to the head or a penetrating head **injury** that disrupts the function of the **brain**. Not all blows or jolts to the head result in...  
*DOD web sites*

2 [Traumatic Brain Injury](#)  
2008-07-30  
...someone who has had a head **injury**. March is **Brain Injury** Awareness Month. **Traumatic Brain Injury** (TBI) refers to the spectrum of head **injuries** from a mild bump of the head to a massive...  
*DOD web sites*

3 [Traumatic brain injury](#)  
Hansen, N.  
*WorldWideScience*

4 [Traumatic Brain Injury](#)  
X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head can cause damage to the **brain**. This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
*Patient Education Institute*  
*WorldWideScience*

# 7. Print Your Results: Clippings or Page



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## MultiSearch

Your search: **Full Record: traumatic brain injury** yielded 1,751 top results from at least 4,705,614 found.

Results 1 - 25 of 1,751  

Sort by: Rank    Limit to: All Sources

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### Clusters

#### All Results (1751)

- Topics
  - Research (182)
  - TBI (146)
  - Mild Traumatic Brain Injury (64)
  - Review (55)
  - Posttraumatic Stress Disorder (49)
  - More...
- Authors
  - Bearinger, J. P. (7)
  - D, Bigler E. (5)
  - Xing, Da (5)
  - Xiang, Liangzhong (4)
  - Levy, R. P. (4)
  - More...
- Publications
  - Wilderness & Environmental

- ★★★★ Traumatic Brain Injury**  
2008-07-30  
... someone who has had a head injury. March is **Brain Injury** Awareness Month. **Traumatic Brain injuries** from a mild bump of the head to a massive...  
DOD web sites
- ★★★★ TRAUMATIC BRAIN INJURY**  
2010-08-03  
**TRAUMATIC BRAIN INJURY (TBI)** What is **traumatic brain injury**? A **traumatic brain injury (TBI)** head **injury** that disrupts the function of the **brain**. Not all blows or jolts to the head result in...  
DOD web sites
- ★★★★ Traumatic Brain Injury**  
X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head can cause damage to the **brain**. This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
Patient Education Institute  
WorldWideScience
- ★★★★ Traumatic brain injury**  
Hansen, N.  
WorldWideScience
- ★★★★ Traumatic brain injury**  
Morgan, A. T; Ward, E. C  
WorldWideScience
- ★★★★ Traumatic Brain Injury**  
... of people in the U.S. sustain head and **brain injuries**. More than half are bad enough that people with **traumatic brain injuries (TBIs)** are due to motor vehicle accidents. Military

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## Your Clippings

Your Clippings are available until you close your browser

[Back To Result List](#)

Articles 1 - 5 of 5

- ★★★★ Traumatic Brain Injury**  
2008-07-30  
... someone who has had a head injury. March is **Brain Injury** Awareness Month. **Traumatic Brain Injury (TBI)** refers to the spectrum of head **injuries** from a mild bump of the head to a massive...  
DOD web sites
- ★★★★ Traumatic brain injury**  
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- ★★★★ Traumatic Brain Injury**  
X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head can cause damage to the **brain**. This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
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... in her. Back to Top What is **Traumatic Brain Injury**? A **traumatic brain injury (TBI)** is an **injury** ... and youth with disabilities. IDEA's Definition of "**Traumatic Brain Injury**" ...  
National Dissemination Center for Children with Disabilities  
NIH MedlinePlus

# 8. Get EurekAlert! Information



- Moss, W C King, M J (6)
- Blackman, E. G. (6)
- Bowen, I. G. (6)
- D, Bigler E. (5)
- More...
- ☐ Publications
  - Physiol. Meas. (27)
  - BL CP (26)
  - Applied Optics (24)

**★★★★ Traumatic brain injury**  
Hansen, N.  
WorldWideScience

**★★★★ Traumatic brain injury**  
Morgan, A. T; Ward, E. C  
WorldWideScience

**★★★★ Traumatic Brain Injury**  
... of people in the U.S. sustain head and brain injuries. More than half are bad enough that people ... brain damage or death. Half of all

**Public release date: 10-Mar-2011**

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University of Texas Health Science Center at Houston



## UTHealth study: Stem cells may provide treatment for brain injuries

*Preliminary results show safety of bone marrow stem cells in traumatic brain injury*

HOUSTON – (March 10, 2011) – Stem cells derived from a patient's own bone marrow were safely used in pediatric patients with traumatic brain injury (TBI), according to results of a Phase I clinical trial at The University of Texas Health Science Center at Houston (UTHealth). The results were published in this month's issue of *Neurosurgery*, the journal of the Congress of Neurological Surgeons.

"Our data demonstrate that the acute harvest of bone marrow and infusion of bone marrow mononuclear cells to acutely treat severe TBI in children is safe," said Charles S. Cox, Jr., M.D., the study's lead author and professor of pediatric neurosurgery at the UTHealth Medical School. The clinical trial, which included 10 children aged 5 to 14 with severe TBI, was done in partnership with Children's Memorial Hermann Hospital, where Cox is director of the pediatric trauma program.

All the children were treated within 48 hours of their injury with their own stem cells, which were collected from their bone marrow, processed and returned to them intravenously. UTHealth's Department of Neurology is also currently testing the same bone marrow stem cell procedure in adults with acute stroke. In a separate trial, Cox is testing the safety of using a patient's own cord blood stem cells for traumatic brain injury in children.



- Lovelace Foundation for Medical Education and Research, Albuquerque, N. Mex. (8)
- Sandia National

... Concussions Reports TBI Facts WHAT IS A **TRAUMATIC BRAIN INJURY**? A **traumatic brain injury** (TBI) is the result of a blow to ... avoid activities that can lead to a second **brain injury** such as contact or recreational sports. Remember to ...

Defense and Veterans <span class="hlt">Brain</span> <span class="hlt">Injury</span> Center  
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2010-08-03

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[acupressure effective in helping to treat traumatic brain injury](#)

A new University of Colorado Boulder study indicates an ancient form of complementary medicine may be effective in helping to treat people with mild **traumatic brain injury**, a finding that may have implications for some ...

[Transatlantic Synergies To Promote Effective Traumatic Brain Injury Research \(Symposium\): ...](#)

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Stem cells derived from a patient's own bone marrow were safely used in pediatric patients with **traumatic brain injury**, according to results of a Phase I clinical trial at UTHealth. The results were published in this ...



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    - IAC Technical Reports
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    - Funding, planning, and other R&D sources
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## Traumatic Brain Injury

Also called: Acquired brain injury, Head injury, Head trauma, TBI

Every year, millions of people in the U.S. sustain head and brain injuries. More than half are bad enough that people must go to the hospital. The worst injuries can lead to permanent brain damage or death.

Half of all traumatic brain injuries (TBIs) are due to [motor vehicle accidents](#). Military personnel are also at risk. Symptoms of a TBI may not appear until days or weeks following the injury. Serious traumatic brain injuries need emergency treatment.

Treatment and outcome depend on the injury. TBI can cause a wide range of changes affecting thinking, sensation, language, or emotions. TBI can be associated with [post-traumatic stress disorder](#). People with severe injuries usually need rehabilitation.

Get Traumatic Brain Injury updates by email

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### Start Here

- [Head Injuries: What to Watch for Afterward](#) (American Academy of Family Physicians)  
Also available in [Spanish](#)
- [Traumatic Brain Injury: Hope through Research](#) NIH (National Institute of Neurological Disorders and Stroke)  
Also available in [Spanish](#)
- [Traumatic Brain Injury Interactive Tutorial](#) (Patient Education Institute)  
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A fast method to get your question answered  
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