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 Name of Journal: *World Journal of Anesthesiology*

ESPS Manuscript NO: 28421

Manuscript Type: Original Article

Basic Study

 Female gonadal hormone effects on microglial activation and functional outcomes in
 a mouse model of moderate traumatic brain injury

Odera Umeano, Haichen Wang, Hana Dawson, Beilei Lei, Afoma Umeano, Michael L. James

Abstract

Aim: Address the hypothesis that young, gonad-intact female mice have improved long-term recovery associated with decreased neuroinflammation compared to male mice.

Methods: Eight to ten week-old male, female, and OVX mice underwent closed cranial impact. Gonad-intact female mice were injured only in estrus state. After injury, between group differences were assessed using complementary immunohistochemical staining for microglial cells at 1 hour, mRNA polymerase chain reaction for

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The neuroprotective effects of progesterone on traumatic brain injury ...

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作者: J Wei - 2013 - 被引用次数: 20 - 相关文章

2013年11月18日 - Keywords: progesterone, traumatic brain injury, neuroprotection, hormone ... been considered merely a female reproductive hormone with little role in ... only use well-defined, highly controlled animal models of preselected severity. ... well as improvements in functional outcome after severe injury (Table 1).

progesterone exerts neuroprotective effects after brain injury - NCBI

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作者: DG Stein - 2008 - 被引用次数: 217 - 相关文章

2007年7月27日 - Three groups of mature rats were used—males, cycling females in proestrus (when ... To examine progesterone's effects on functional outcomes after TBI, two ... of hormones has an effect on histopathological outcome in this model of injury. TNF α and IFN γ activate microglia in vitro, and administration of ...

Sex, Sex steroids and Brain injury - NCBI - National Institutes of Health

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作者: PS Herson - 2009 - 被引用次数: 94 - 相关文章

2009年4月28日 - Animal models of brain injury, typically rodents, have been used to ... focal or global cerebral ischemia and improved functional outcome. Patients of both sexes (n=100) with moderate to severe brain damage from blunt head trauma were Female sex steroids: Effects upon microglial cell activation.

Sexually dimorphic outcomes and inflammatory responses in hypoxic ...

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作者: MA Mirza - 2015 - 被引用次数: 6 - 相关文章

2015年2月20日 - Microglial activation and inflammatory responses were evaluated by flow cytometry and

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Gender and the Injured Brain - NCBI - National Institutes of Health

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作者: K Vagnerova - 2008 - 被引用次数: 80 - [相关文章](#)

Cerebral ischemia, **traumatic brain injury**, and epilepsy are reviewed in the context ... damage and enjoy improved **functional outcome** compared with their **male** ... estrogen-response element (ERE) on the target gene to **activate** transcription. Research studies in **animal models** of TBI confirm the neuroprotective **effects** of ...

The neuroprotective effects of progesterone on traumatic brain injury ...

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作者: J Wei - 2013 - 被引用次数: 24 - [相关文章](#)

2013年11月18日 - Keywords: progesterone, **traumatic brain injury**, neuroprotection, **hormone** ... been considered merely a **female** reproductive **hormone** with little role in ... only use well-defined, highly controlled **animal models** of preselected severity. ... well as improvements in **functional outcome** after **severe** injury (Table 1).

Sex, Sex steroids and Brain injury - NCBI - National Institutes of Health

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作者: PS Herson - 2009 - 被引用次数: 98 - [相关文章](#)

2009年4月28日 - Sex differences in ischemic **outcomes**: **animal models**. Animal ... Progesterone is synthesized from cholesterol by the **gonads**, adrenal gland or placenta. Similar positive results have been recently reported with **severe traumatic brain injury**, **Female** sex steroids: **Effects** upon **microglial cell activation**.

progesterone exerts neuroprotective effects after brain injury - NCBI

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作者: DG Stein - 2008 - 被引用次数: 219 - [相关文章](#)

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The neuroprotective effects of progesterone on traumatic brain injury ...

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作者: J Wei - 2013 - 被引用次数: 27 - 相关文章

2013年11月18日 - Keywords: progesterone, **traumatic brain injury**, neuroprotection, **hormone** ... considered merely a **female** reproductive **hormone** with little role in ... studies only use well-defined, highly controlled **animal models** of preselected severity. ... as improvements in **functional outcome** after **severe** injury (Table 1).

progesterone exerts neuroprotective effects after brain injury - NCBI

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作者: DG Stein - 2008 - 被引用次数: 222 - 相关文章

2007年7月27日 - To examine progesterone's **effects** on **functional outcomes** after TBI, two groups of adult ... of **hormones** has an **effect** on histopathological outcome in this **model** of injury. fluid of **male** and **female** patients with **severe traumatic brain injuries** ... TNF α and IFN γ **activate microglia** in vitro, and administration of ...

Progesterone Receptors: Form and Function in Brain

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: RD Brinton - 2008 - 被引用次数: 327 - 相关文章

2008年2月23日 - From a reproductive **gonadal hormone** perspective, progesterone always acts in concert with E2. 45; 46; 47], P4 **effects** have been reported in the CNS of PR knockout **mice**, Recent evidence suggests that, in spinal cord **injury models**, P4 ... of **activated microglia** in **traumatic brain injured rat brain** [6].

Sexually dimorphic outcomes and inflammatory responses in hypoxic ...

<https://jneuroinflammation.biomedcentral.com/articles/.../s12974-015-0251-...> ▼ 翻译此页

作者: MA Miao - 2015 - 被引用次数: 12 - 相关文章