Nevrotransplantacija

TEDEN MOŽGANOV 2016

Maja Bresjanac,
LRPŽ, Pafi, ULMF

dr. Sergio Canavero, Torino, Italia

HEAVEN: Head anastomosis venture

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Project outline for the first human head transplantation with spinal linkage (GEMINI)

Surg Neurol Int 2013, 4:335
http://www.surgicalneurologyint.com/article.asp?issn=2152-7806;year=2013;volume=4;issue=2;spage=335;epage=342;aulast=Canavero

Next Meeting

Join Us for the Academy's 39th Annual Scientific Meeting June 12-13, 2015 – Westin Hotel, Annapolis, MD

Due to the long standing relationship with the United States Section of ICS (ICSUS) the American Academy of Neurological and Orthopaedic Surgeons (the Academy) has once again designated the ICSUS Annual Surgical Update as the Academy Annual Scientific Meeting. Working closely with the members of the Academy to determine professional practice gaps and educational need, ICSUS planners representing our major surgical specialties are developing two days of programming that will provide approximately 12 hours of category 1 credit.

Click HERE to visit the ICSUS website and register for the meeting.

Preliminary Program

Keynote Lecture

HEAVEN-GEMINI: Head Transplantation: The Future Is Now

Sergio Canavero, MD, Director, Turin Advanced Neuromodulation Group, Turin, Italy (Click here to

Important Dates

March 1, 2015
Registration for Annapolis meeting available

May 1, 2015
Hotel reservation deadline for guaranteed rates and availability at the Westin Hotel in Annapolis.

May 11, 2015
Early registration discount ends for 39th Annual Scientific Meeting in Annapolis.

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Stairway to HEAVEN ...

1/ Poišči donorja (telo), ki ustreza prejemniku (glava)

2/ Anesteziraj in globoko ohladi donorja (D) in prejemnika (P)

3/ Prereži vrat D in P z namenu-ustrezno previdnostjo

4/ Zlepi hrbtenjači D in P npr. s polietilenglikolom

5/ Ohranjaj PD organizem negiben v komi nekaj tednov

6/ Med umetno komo električno draži hrbtenjačno anastomozo

7/ Vzdržuj visoko raven imunosupresije vse preostalo življenje

8/ Po 4 tednih zbudi in rehabilitiraj PD, da P glava začne uporabljati D telo

9/ Poskrbi za psihično prilagoditev P na D

"The person will wake up with the same voice, move, feel their face and learn to walk in a year."

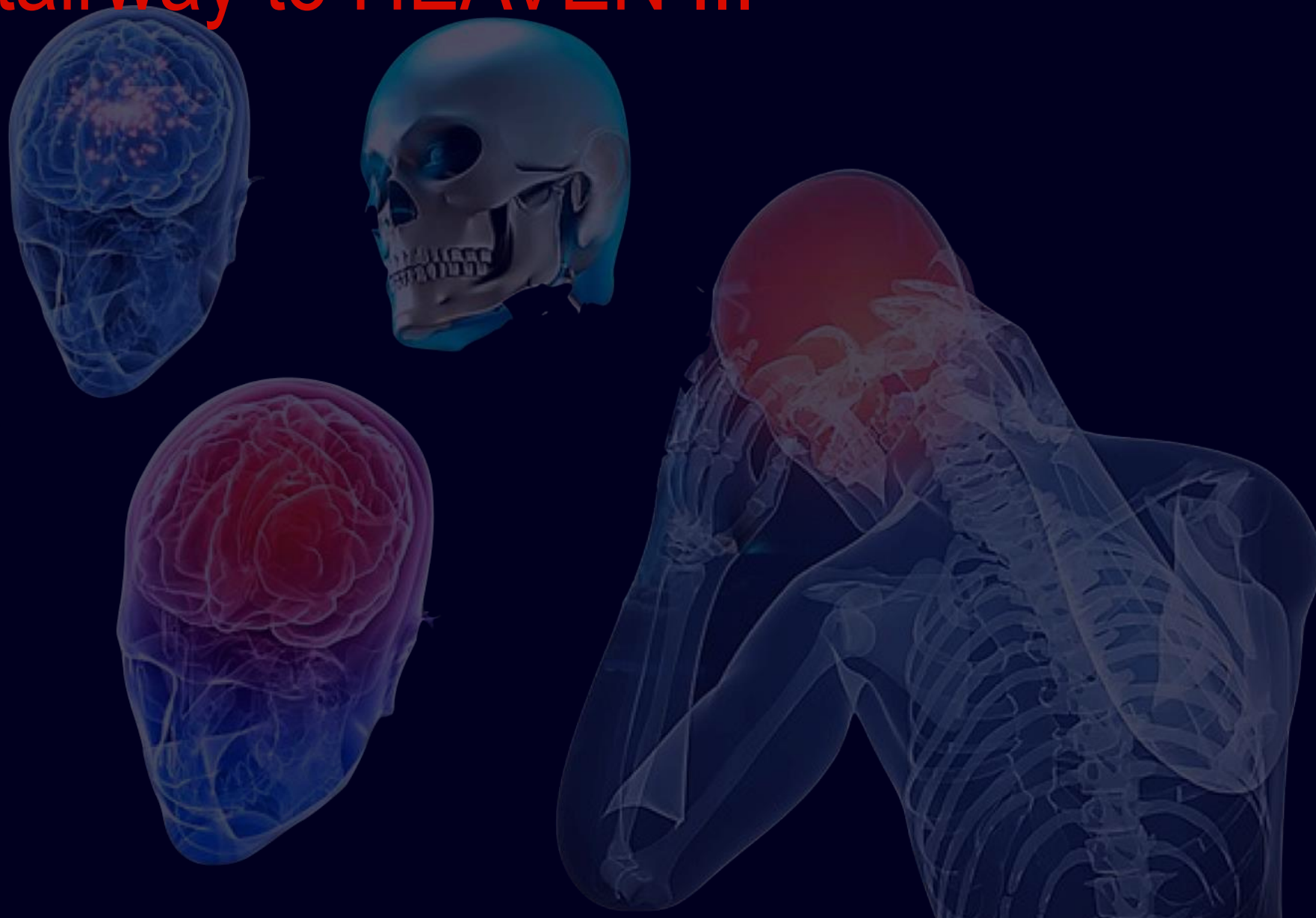
Stairway to HEAVEN ...

Jamstvo uspeha:

- minimalna okvara hrbtenjače z ultra-ostrim rezilom
- zadostnost delne vzpostavitve povezav za uporabno funkcijo
- lepljenje krnov z membranskimi lepili
- spodbudni učinki električnega draženja na funkcijo ...

Canavero: “Vse to že znamo!”

Stairway to HEAVEN ...



... or a highway to hell?

Problem I: ne gre le za lepljenje krnov

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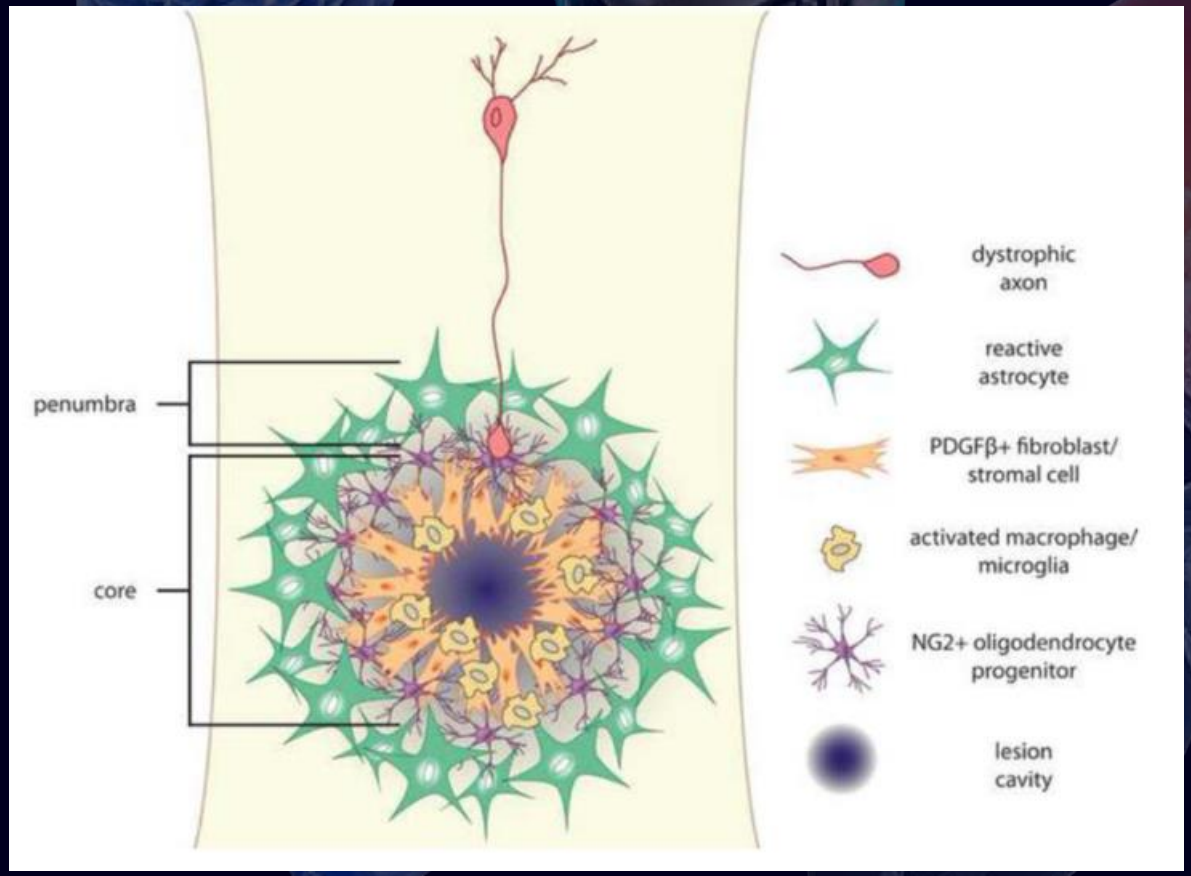

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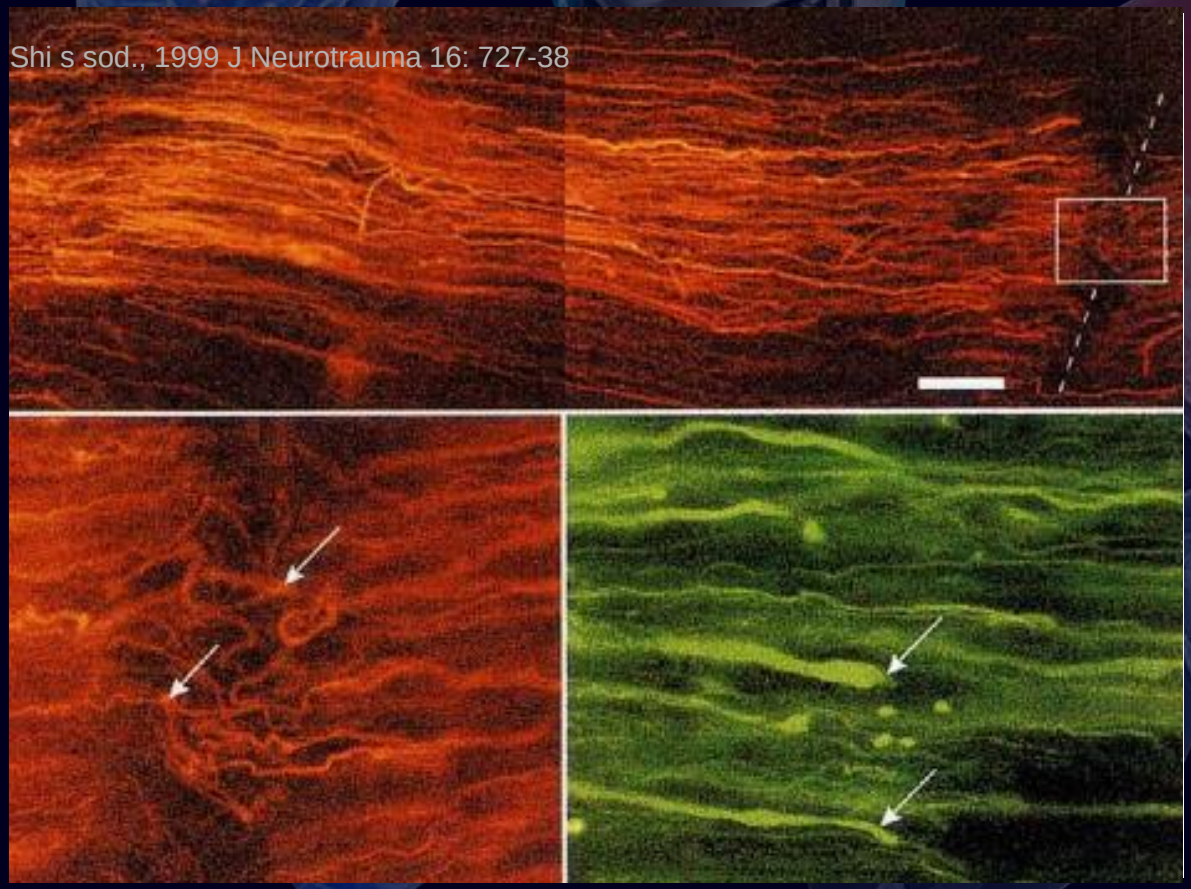

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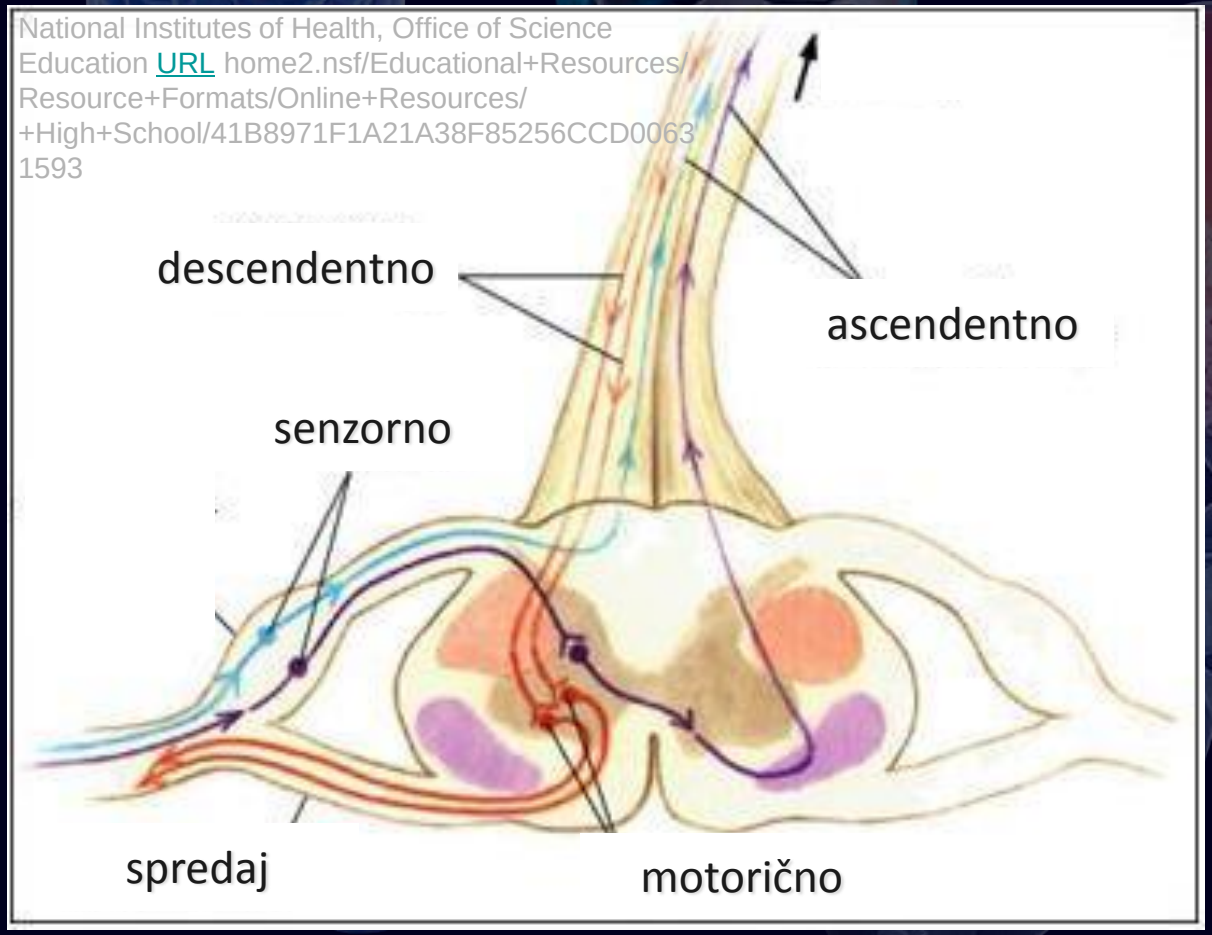

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http://www.dailymail.co.uk/news/article-3117029/I-m-not-going-crazy-cut-head-Disabled-man-volunteering-HEAD-transplant-meet-surgeon-time-tomorrow-insists-II-knife-99-possible.html

... or a highway to hell?

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Spinal Cord (2007) **45,** 496–501; doi:10.1038/sj.sc.3102013; published online 9 January 2007

Observation of locomotor functional recovery in adult complete spinal rats with BWSTT using semiquantitative and qualitative methods

Y Zhang[1], S R Ji[1], C Y Wu[2], X H Fan[1], H J Zhou[1] and G L Liu[1]

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Problem I: ne gre le za lepljenje krnov

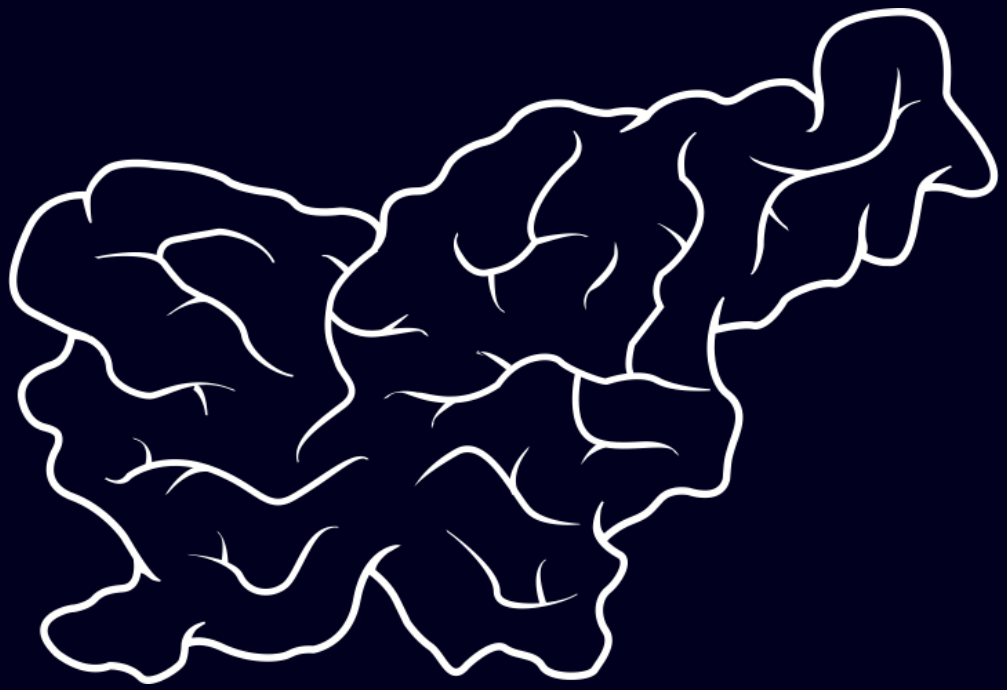
Problem II: vseživljenjska imunosupresija

Problem III: deaferentacijske nevropatske bolečine

Problem IV: a whole new "mind-body problem" ...

Problem V: etika

- medijski nastopi pred strokovnimi argumenti
- zaupanje javnosti v znanost in medicino (Is this (bad) science ...?)
- vpliv na transplantacijsko medicino (umik donorjev) ?
- "There are things we should not do even if we could" ... ?



Hvala za pozornost !