

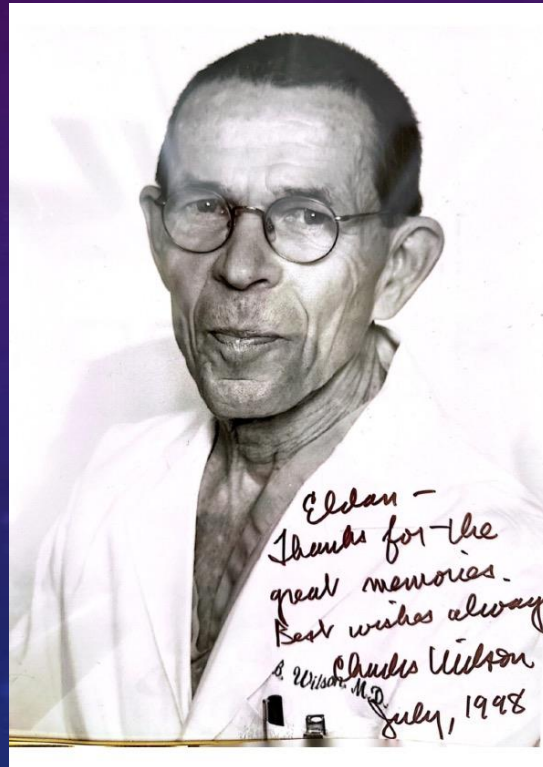


NEUROSURGERY AND FILM

ELDAN EICHBAUM, MD

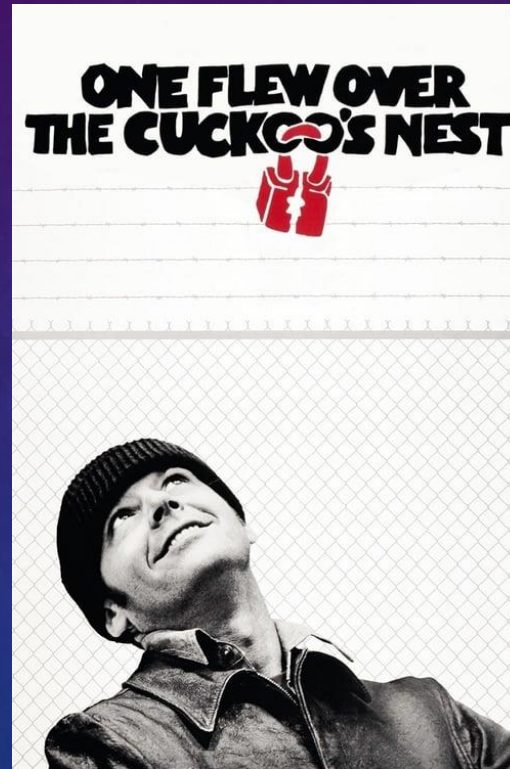
BALANCE IN NEUROSURGERY

- Charles B. Wilson, MD
- UCSF



NEUROSURGERY AND FILM

- "One Flew Over the Cuckoo's Nest" (1975)



NEUROSURGERY AND FILM



NEUROSURGERY AND FILM

- "The Surgeon in Action: Representations of Neurosurgery in Movies from Freres Lumiere to Today," F. Bernard, et al., *World Neurosurgery* (2018) 119: 66-76.
 - Reviewed 61 Movies relating to neurosurgery or neurosurgeons
 - Most from USA, Britain, Australia, India, Iran
 - Time period 1895-2017
 - 24 movies with neurosurgeons (1950-2017)

NEUROSURGERY AND FILM

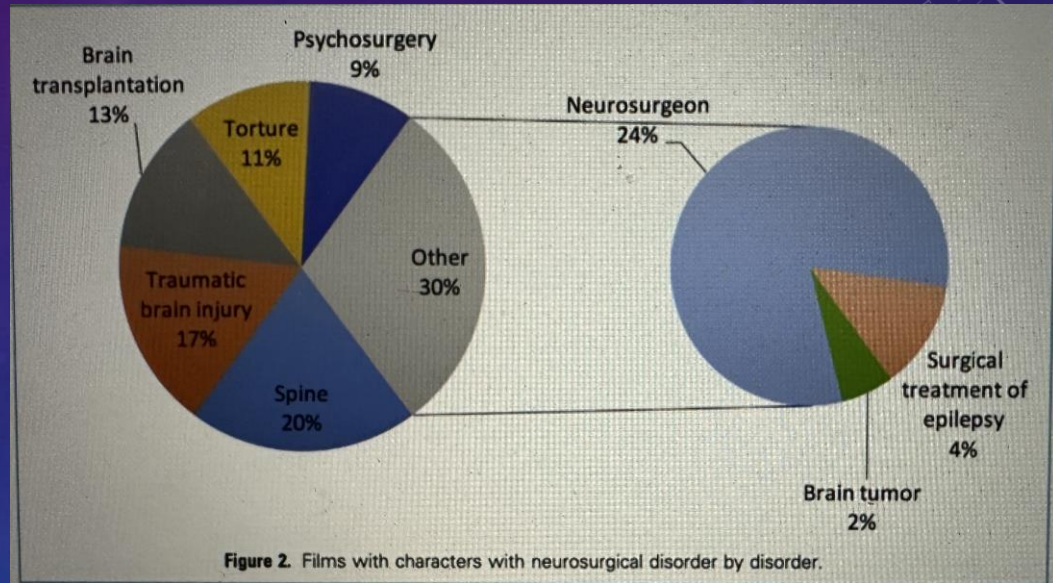
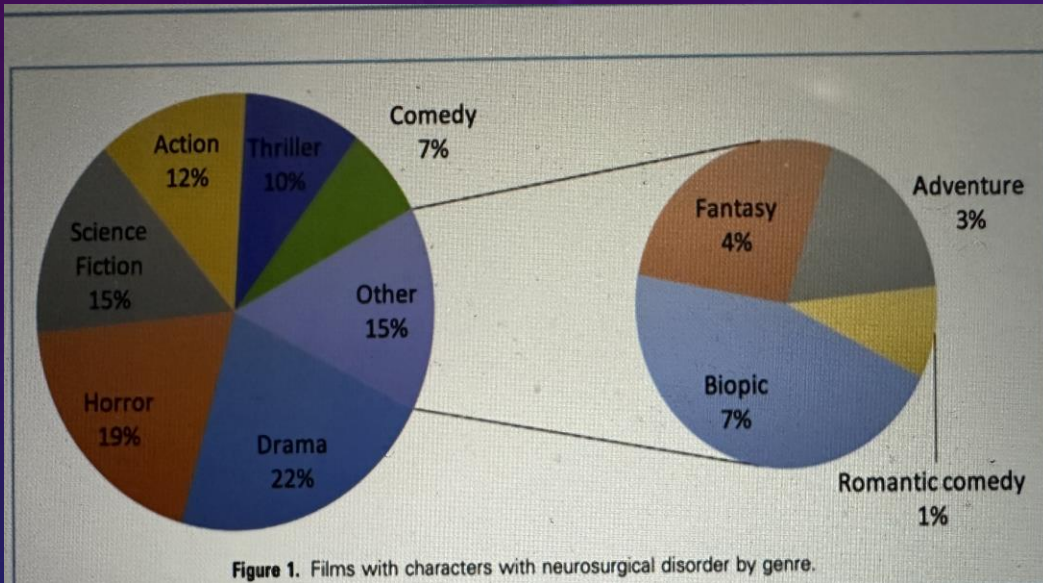
- **GENRE:**

- Drama
- Comedy
- Horror
- Science Fiction
- Action
- Thrillers

- **TOPICS:**

- Spinal Injuries
- TBI
- Brain Transplantation
- Psychosurgery
- Epilepsy
- Brain tumor

NEUROSURGERY AND FILM



NEUROSURGERY AND FILM

Table 1. Films with a Neurosurgeon Character

| Film | Year | Production Company | Genres |
|--|------|--|---|
| Crisis ³ | 1950 | Metro-Goldwyn-Mayer | Drama, thriller |
| The Colossus of New York ⁵ | 1958 | Paramount Pictures | Horror, science fiction |
| Suddenly, Last Summer ⁶ | 1959 | Horizon Pictures, Columbia Pictures | Drama |
| The Brain That Wouldn't Die ⁷ | 1962 | American International Pictures | Horror, science fiction |
| Candy ⁸ | 1968 | ABC Pictures | Adventure, comedy, fantasy |
| Frankenstein Must Be Destroyed ⁹ | 1969 | Hammer Film Production | Horror, science fiction |
| Happy Birthday to Me ¹⁰ | 1981 | Columbia Pictures, Canadian Film, Development Corporation, Famous Players | Slasher |
| The Man with Two Brains ¹¹ | 1983 | Warner Bros | Comedy |
| The Adventures of Buckaroo Banzai Across the 8th Dimension ¹² | 1984 | Sherwood Productions | Adventure, comedy, romance, science fiction |
| The Unbearable Lightness of Being ¹³ | 1988 | The Saul Zaentz Company, Orion Pictures | Drama, romance |
| Hannibal ¹⁴ | 2001 | United International Pictures | Thriller |
| Frida ¹⁵ | 2002 | Handprint Entertainment, Miramax, Lionsgate Films, Ventanarosa | Biopic |
| Facing the Truth ¹⁶ | 2003 | Public Affair Television | Drama |
| Who killed Bamby? ¹⁷ | 2003 | Canal + | Thriller, drama |
| Saw III ¹⁸ | 2004 | Lions Gate Entertainment | Horror, thriller |
| The English Surgeon ¹⁹ | 2007 | Bungalow Town Production | Documentary |
| As Gifted Hands: The Ben Carson Story ²⁰ | 2009 | Sony Pictures Television | Biopic |
| Shutter Island ²¹ | 2010 | Phoenix Pictures | Thriller |
| Sucker Punch ²² | 2011 | Legendary Pictures, Cruel and Unusual Films | Fantasy, action, thriller |
| 50/50 ²³ | 2011 | Mandate Pictures, Point Grey | Comedy, drama, romance |
| Declaration of War ²⁴ | 2011 | Wild Bunch Distribution | Drama |
| Avant l'Hiver ²⁵ | 2013 | Les films du 24 | Drama |
| Doctor Strange ²⁶ | 2016 | Marvel Studios | Action, adventure, fantasy, science fiction |
| Get Out ⁴ | 2017 | Blumhouse Productions, QC entertainment Production, Monkeypaw Production, Dentsu | Horror |

NEUROSURGERY AND FILM

Table 2. Role Distribution, Total Gross, Production Country, and Accolades of Films Involving Neurosurgeons

| Film | Role | Box Office Takings | Production Country | Accolades |
|--|---------------|--------------------|--------------------|--|
| Crisis ³ | First | \$1,616,455 | United States | 0 |
| The Colossus of New York ⁵ | First, second | NA | United States | 0 |
| Suddenly, Last Summer ⁶ | Figurant | \$13,000,000 | United States | 4 wins (Golden Globes, Bambi Awards, David di Donatello Award, Laurel Award, National Board of Review) and 7 nominations |
| The Brain That Wouldn't Die ⁷ | First | NA | United States | 0 |
| Candy ⁸ | | \$16,408,286 | United States | 1 nomination |
| Frankenstein Must Be Destroyed ⁹ | Second | NA | United Kingdom | 1 nomination (Academy of Science Fiction, Fantasy & Horror Films) |
| Happy Birthday to Me ¹⁰ | First | \$10,609,514 | Canada | 3 nominations |
| The Man with Two Brains ¹¹ | First | \$10,353,438 | United States | 0 |
| The Adventures of Buckaroo Banzai Across the 8th Dimension ¹² | First | \$6,300,000 | United States | 0 win, 5 nominations |
| The Unbearable Lightness of Being ¹³ | First | \$10,010,000 | United States | 1 win (BAFTA) and 4 Nominations (2 Golden Globes, 2 Oscars) |
| Hannibal ¹⁴ | Second | \$351,600,000 | United States | 9 wins and 9 nominations |
| Frida ¹⁵ | First | \$25,885,000 | United States | 17 wins (2 Oscars, Golden Globes, BAFTA Awards, AFI Awards...) and 46 nominations |
| Facing the Truth ¹⁶ | First | NA | Denmark | 1 win (Robert Awards) and 2 nominations |
| Who Killed Bamby? ¹⁷ | Second | \$1,167,425 | France | 4 nominations (Cannes Film festival, Cesar Awards) |
| Saw III ¹⁸ | Figurant | \$80,238,724 | United States | 1 win (BMI Film Award) and 5 nominations |
| The English Surgeon ¹⁹ | First | £350,000 | United Kingdom | 1 win (News and Documentary Emmy Awards) and 4 nominations |
| As Gifted Hands: The Ben Carson Story ²⁰ | First | NA | United States | 0 |
| Shutter Island ²¹ | Figurant | \$250,804,195 | United States | 1 win (National Board of Review Award) and 7 nominations |
| Sucker Punch ²² | First | \$89,800,000 | United States | 1 win (IGN Summer Movie Awards) and 10 nominations |
| 50/50 ²³ | First | \$41,100,000 | United States | 12 wins, 28 nominations |
| Declaration of War ²⁴ | Figurant | \$46,500,000 | France | 8 wins (Hong Kong International Film Festival) and 8 nominations |
| Avant l'Hiver ²⁵ | First | \$2,600,000 | France | 0 |
| Doctor Strange ²⁶ | First | \$677,700,000 | United States | 18 wins and 65 nominations |
| Get Out ⁴ | Figurant | \$254,100,000 | United States | 50 wins (AFI Awards, African-American Films Critics Association, MTV Movie Awards...) and 110 nominations |

NEUROSURGERY AND FILM

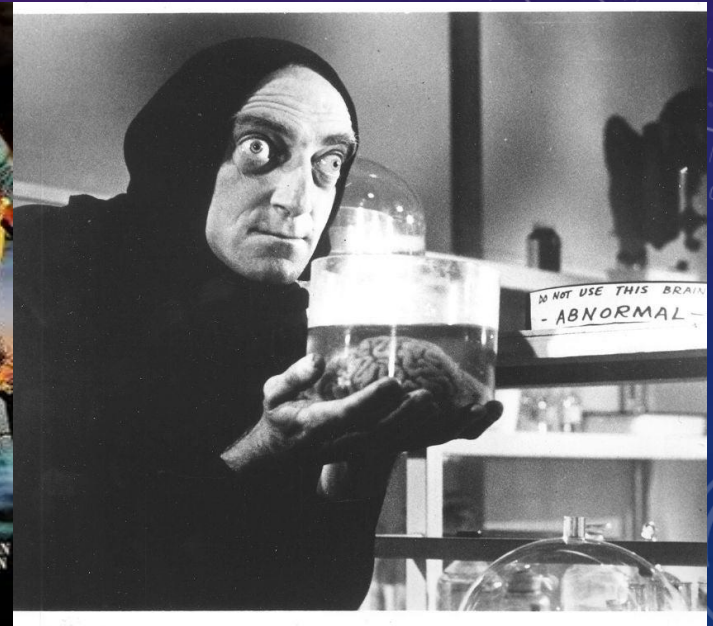
- Brain tumor
 - First Man, So Close So Far
- Brain Transplantation
 - The Man with Two Brains
 - Young Frankenstein
 - Get Out
- Spinal Surgery
 - Million Dollar Baby
 - Dr. Strange
- Psychosurgery
 - One Flew Over the Cuckoo's Nest
 - Shutter Island
- Deep Brain Stimulation
 - Total Recall
 - The Manchurian Candidate
- TBI
 - 50 First dates
 - The Bourne Identity
 - Concussion
- Epilepsy
 - Memento
 - The Terminal Man

NEUROSURGERY AND FILM

- "Frankenstein" series (1957-74)
 - Obsessed with creating life
 - Deranged and Insane
 - Peter Cushing main actor
- "The Colossus of New York" (1958)
- "The Brain That Wouldn't Die " (1962)

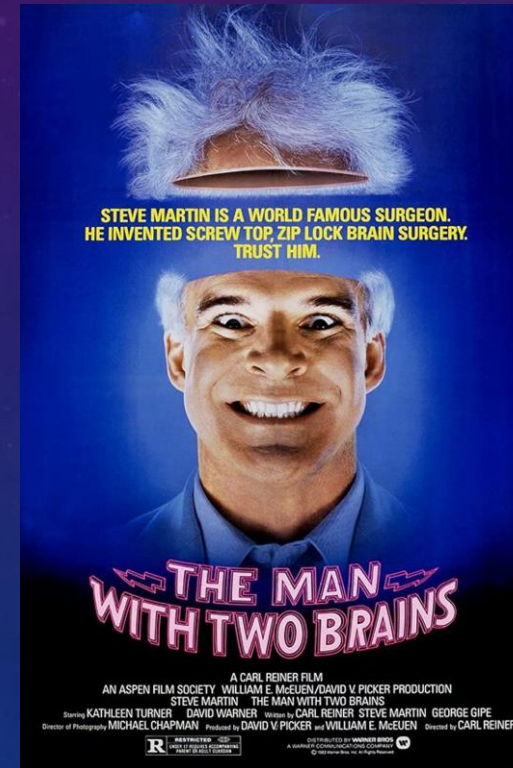
NEUROSURGERY AND FILM

- “Young Frankenstein” (1974)
 - Gene Wilder and Marty Feldman
 - Brilliant scientist
 - Brain transplantation possible reality as renal and heart transplants were reality



NEUROSURGERY AND FILM

- "The Man with Two Brains" (1983)
 - Steve Martin



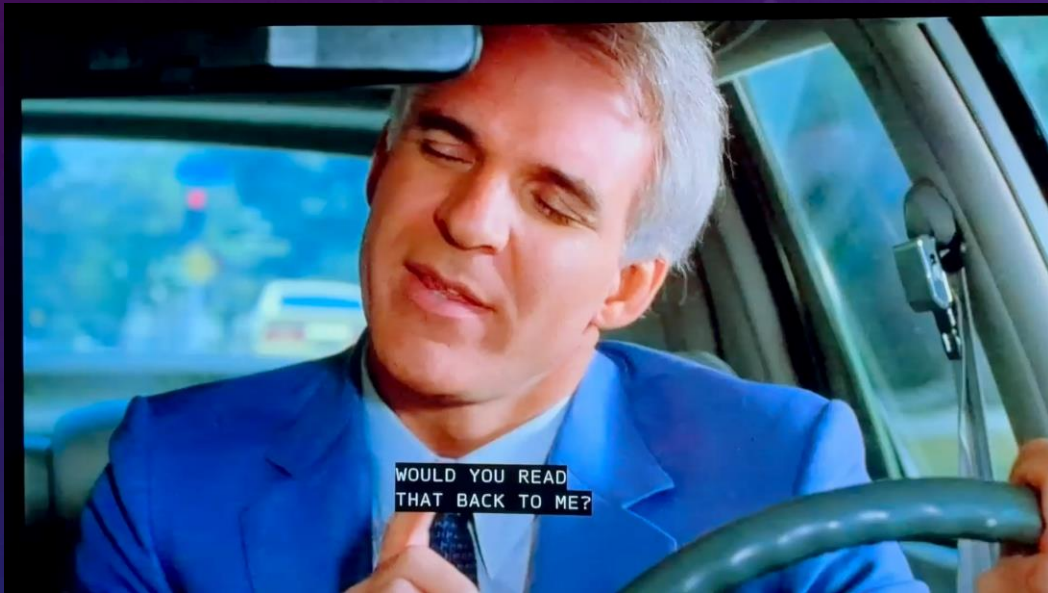
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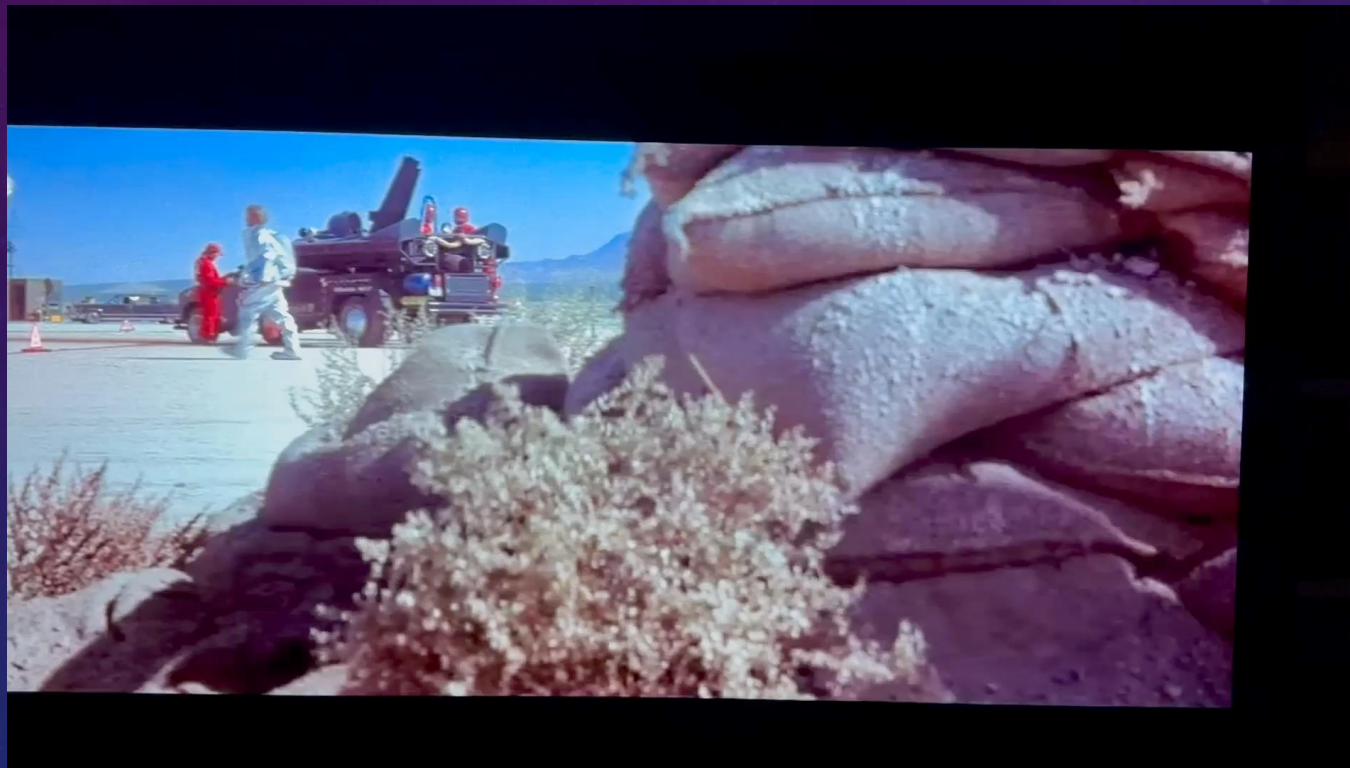


NEUROSURGERY AND FILM

- “The Adventures of Buckaroo Banzai Across the 8th Dimension” (1984)
 - Rock Star
 - Musician
 - Great Adventurer

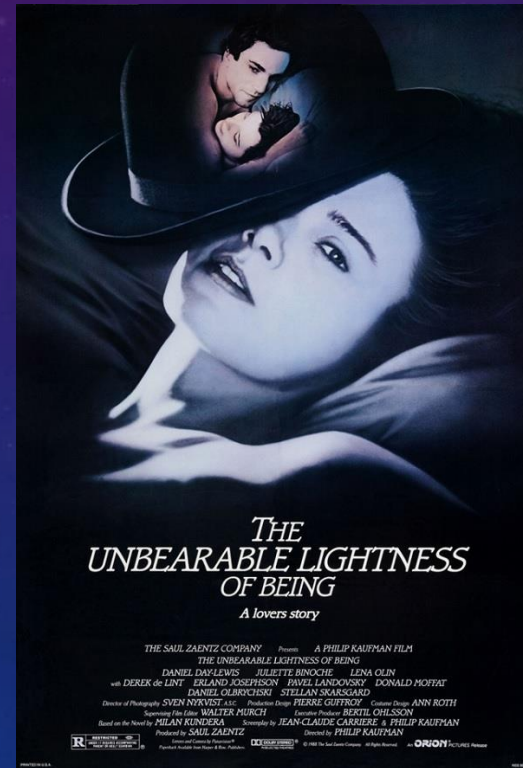


NEUROSURGERY AND FILM



NEUROSURGERY AND FILM

- "The Unbearable Lightness of Being" (1988)
 - Daniel Day-Lewis
 - Successful Neurosurgeon in communist Czechoslovakia
 - Intellectual
 - Politically invested



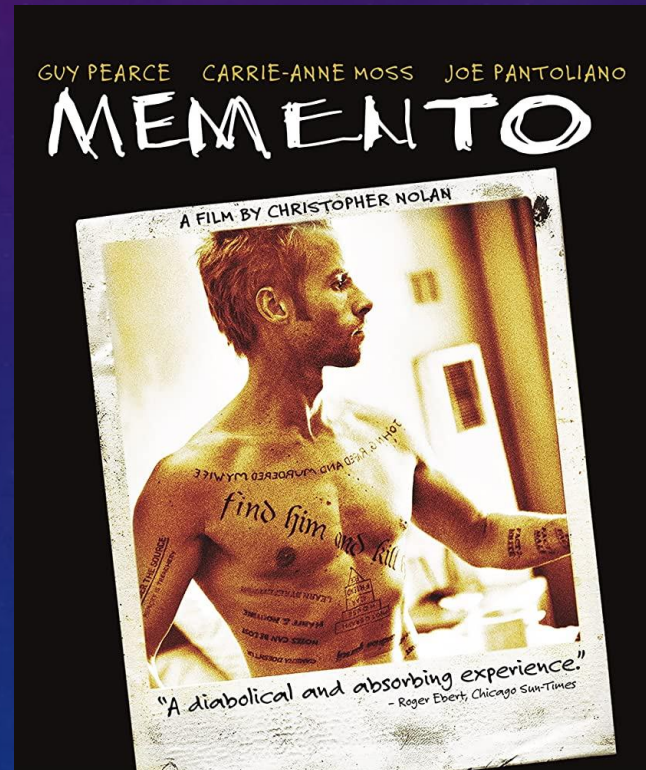
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- "Total Recall" (1990)
 - Implant removed trans-nasally



NEUROSURGERY AND FILM

- "Memento" (2000)
 - Amnesia is main topic of C Nolan's film but based on epilepsy. It was inspired by the story of the most famous epilepsy patient in the world. Henry Gustav Molaison (2/26/1926 - 12/2/2008), known as H.M., presented post operative memory disorder after bilateral medial temporal lobectomy to cure his epilepsy.

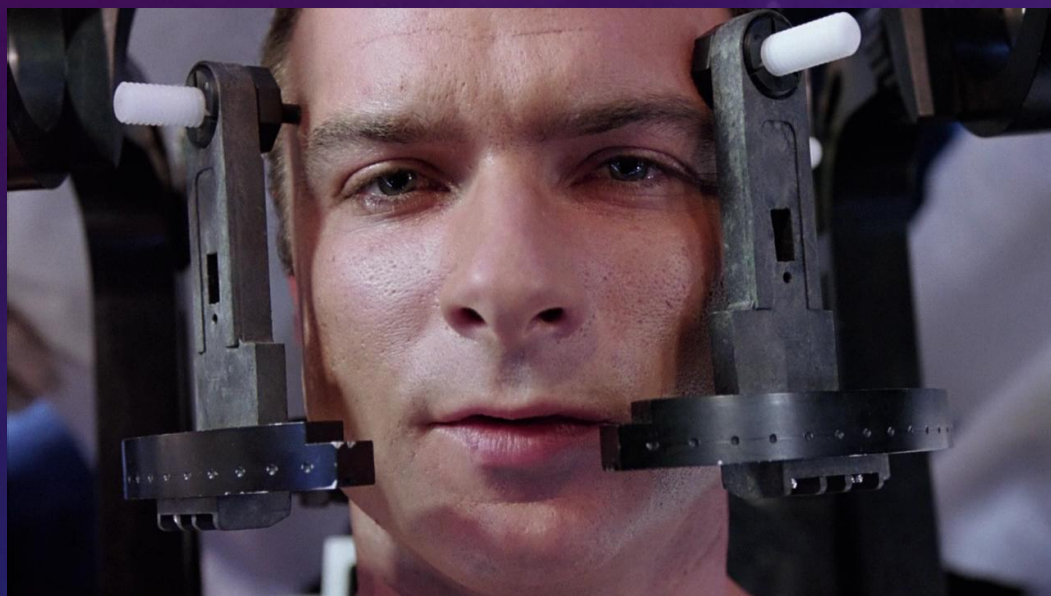


NEUROSURGERY AND FILM

- “Manchurian Candidate” (2004)
 - Denzel Washington, Liev Schreiber
 - Implant placed
 - ECT scene



NEUROSURGERY AND FILM

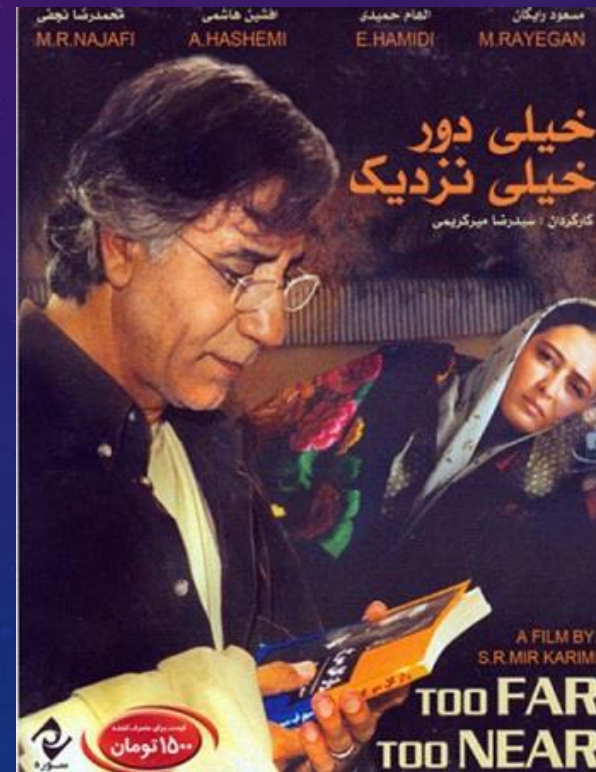


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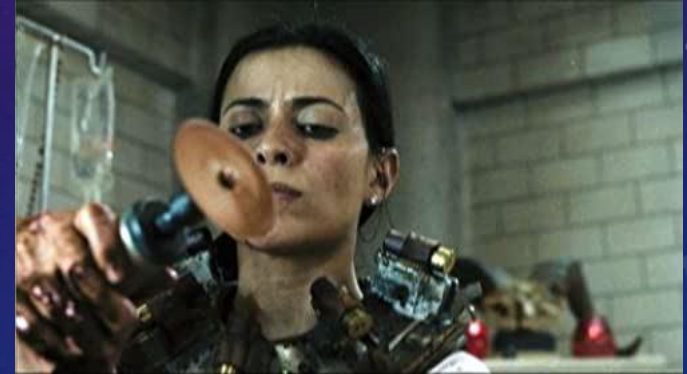
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- "So Close So Far" (2005)
 - Self-centered neurosurgeon reunites with his son diagnosed with a medulloblastoma and they eventually save each other.



NEUROSURGERY AND FILM

- "Saw III" (2006)
 - Woman neurosurgeon performs craniotomy to alleviate increased intracranial pressure



NEUROSURGERY AND FILM



NEUROSURGERY AND FILM

- "Spectre" (2015)



NEUROSURGERY AND FILM



NEUROSURGERY AND FILM

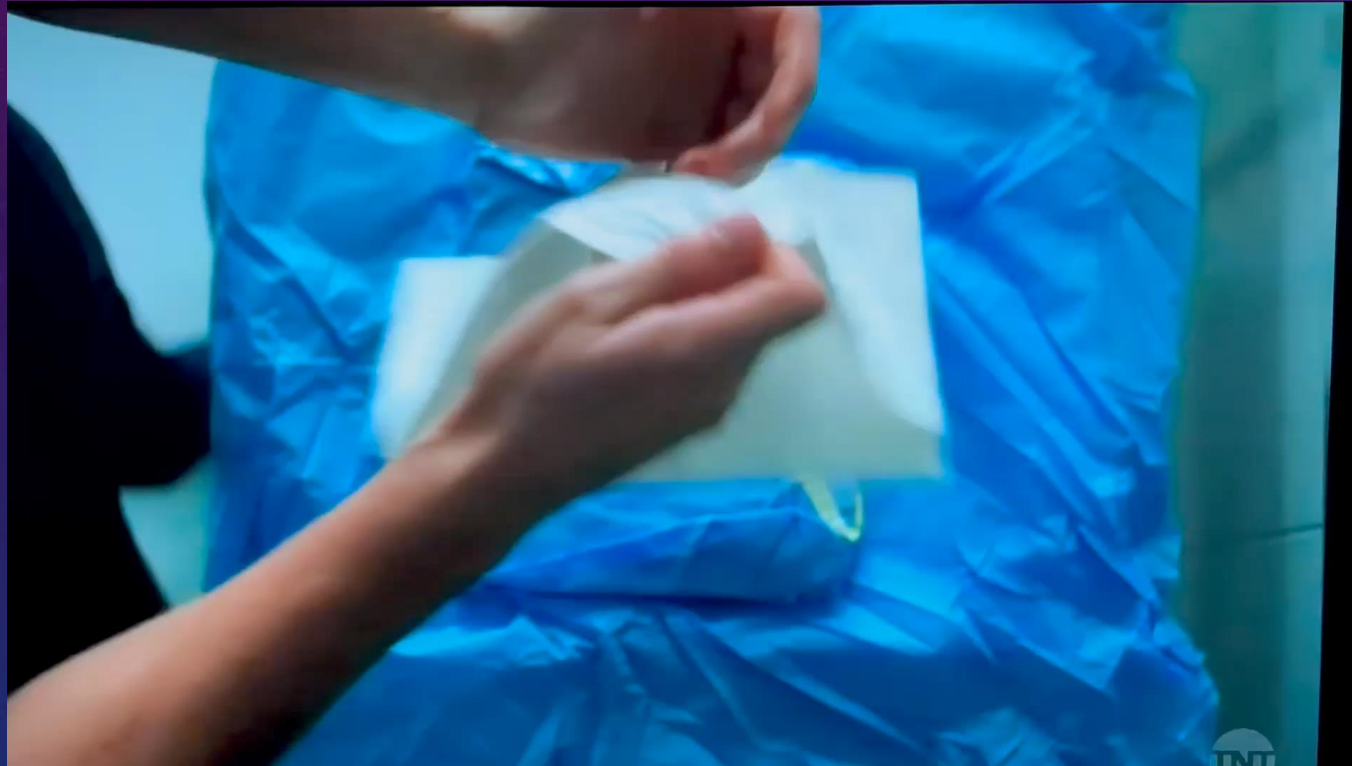


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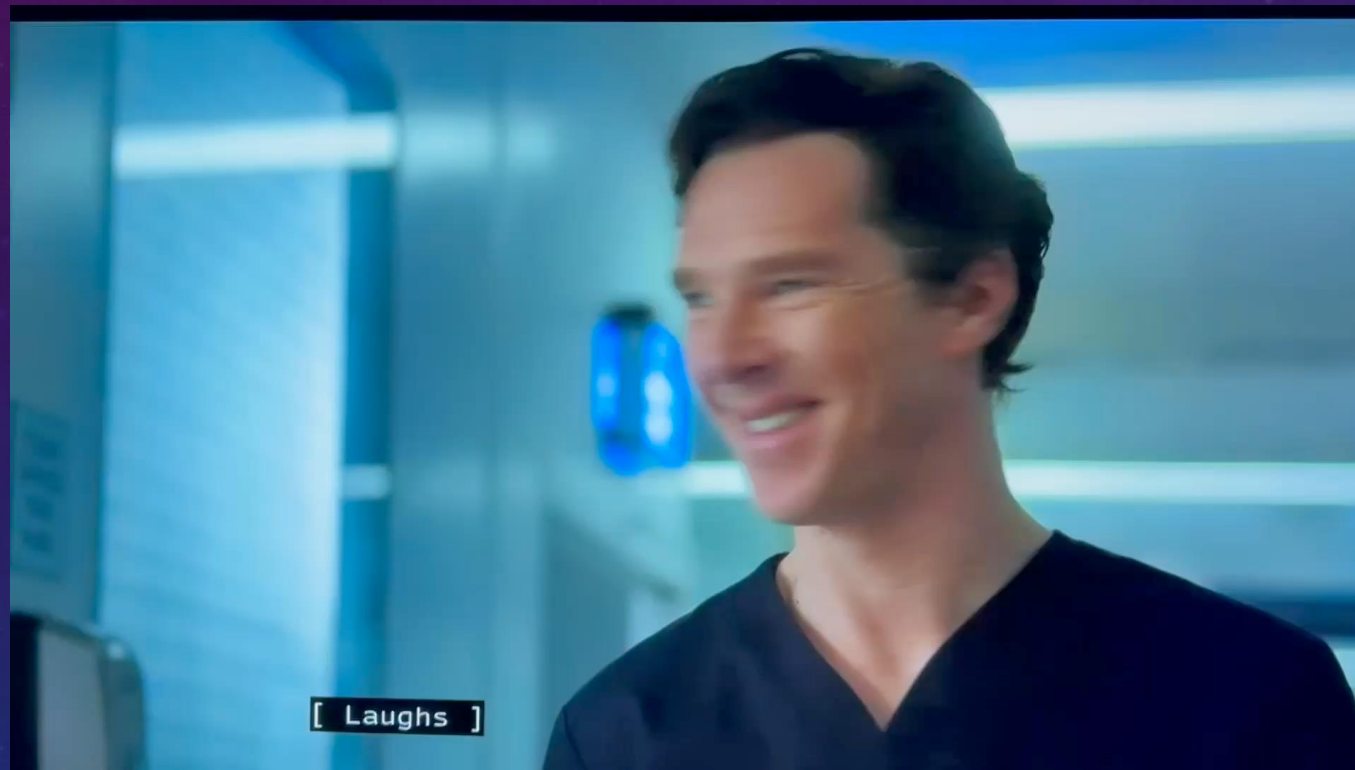
- “Dr. Strange” (2016)
 - Wealthy, Talented and Arrogant Neurosurgeon in NYC
 - Marvel Superhero
 - Inaccurate depiction of neurologic condition and surgical technique and outcome



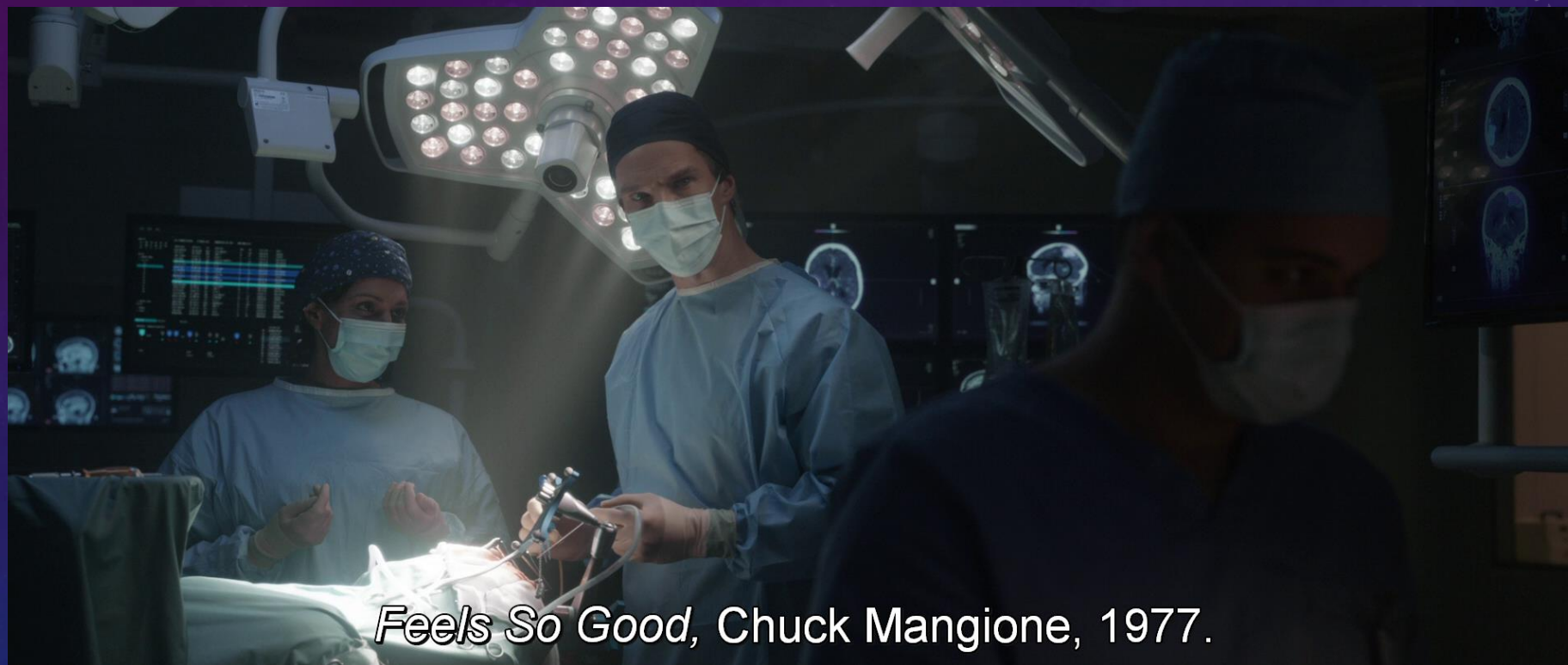
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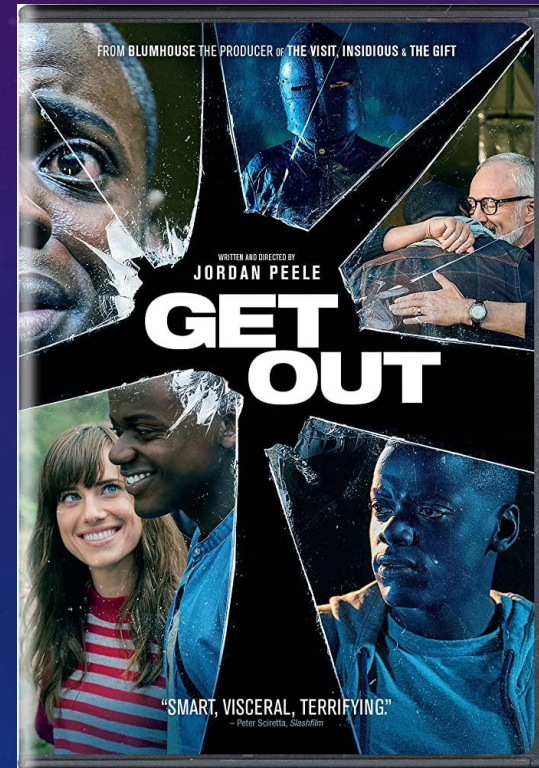
NEUROSURGERY AND FILM



Feels So Good, Chuck Mangione, 1977.

NEUROSURGERY AND FILM

- "Get Out" (2017)
 - Girlfriend's father is a neurosurgeon
 - Brain transplantation



NEUROSURGERY AND FILM



NEUROSURGERY STREAMING

- ER (1994-2009)
- Grey's Anatomy (2005)
- Lenox Hill (2020)
- Dr. Death (2021)

NEUROSURGERY STREAMING

- Dr. Death



NEUROSURGERY STREAMING



NEUROSURGERY STREAMING

- Lenox Hill



NEUROSURGERY STREAMING

- ER



NEUROSURGERY STREAMING

- Grey's Anatomy



NEUROSURGERY STREAMING

- Dr. McDreamy



DR. MCDREAMY



NEUROSURGERY AND FILM

- Neurosurgery and Neurosurgeons depicted accurately in film?
- One could argue that since film is art and entertainment it does not need to be bound by the rigors of being scientifically correct. On the other hand, in film that is not fantasy and trying to depict the true nature of our field, it is best to be at least somewhat accurate.

NEUROSURGERY AND FILM

- PERCEPTION
- Neurosurgeons generally are well-respected and have a strong bond with their patients
- Most movies give inaccurate images of neurosurgery and neurosurgeons
- Improved accuracy in description of neurosurgery and neurosurgeons has improved with time

BALANCE IN NEUROSURGERY

- Neurosurgery/Medical Field
 - Wonderful Career
 - Fortunate
 - Grateful

Dr. Eichbaum -
I just wanted to reach out to let you know how I'm doing. -
I can now bend down + touch the floor, bend backwards, rotate side to side, stand on my tip toes, and balance on one foot for more than a few seconds. Today I did an xray for Dr. Saleh and left the handicap spot for someone who may need it more than me. Me being your patient may ~~not have~~ changed your life but you being my doctor sure changed mine. March is not an easy month as its when I lost my dad - but in an attempt to make it positive; I wanted to let you know I'm thankful for all the schooling and late nights and missed dates you have endured to become the skilled neuro-surgeon that fixed this RA - prob. not your best patient.