Walter Dandy MD
1886-1946

• One of three Founding Fathers of Neurosurgery
  – (others: Victor Horsley, Harvey Cushing)
• B- Sedalia, MO
• College-U of MO Columbia (1907)
  – Rhode Scholar selection but did not go!
• Med school John Hopkins (1907-1910)
• Surg residency (& NS) under Halsted/Cushing
  – Resident till 1918
  – Research in Cushing’s lab on blood & nerve supply to canine and feline pituitary glands (papers 1911 & 1913)
• Remained at Hopkins his whole career as head NS
Walter Dandy MD
1886-1946
Contributions: CSF & Hydrocephalus & Brain Imaging

• 10 pivotal papers-(1913-1914)
• Production, circulation, and absorption of CSF
• Described hydrocephalus- 2 forms: Obstructive and communicating & surgical RX
• Air Ventriculography (1918)
• Pneumoencephalography (1919)
  – Published the year after he finished residency (1918)
  – Nominated for Nobel in 1933
  – Primary method of localizing the brain lesions until CT’s in 70’s
Walter Dandy MD
1886-1946
The Surgical Innovations

- 1921- Removal of tumors
- 1922- Endoscopy for RX hydrocephalus
- 1925- Section CN5 for trig neuralgia
- 1929- Removal of herniated disc
- 1930--Surg RX spasmodic torticollis
- 1933- Hemispherectomy for malignant tumors
- 1933-Removal of deep tumors in ventricular system.
- 1935-RX carotid cavernous fistulas
- 1938-ligation or “clipping” of intracranial aneurysm
- 1941-Removal of orbital tumors
Dr. Camarata Mystery
Box of Dr. Dandy’s Illustrations/Notes

- Box Dr. C found in his office
- Medical illustrations of brain neurosurgery by Sybil McDonald & notes by Dr. Dandy.
- Sybil (Betts) McDonald from KC, went to KU (1909) and become medical artist @ KUMC.
- Dandy operated on his daughter for a brain tumor.
- 1923 moved to Hopkins & worked for Dandy
Over the shoulder of Walter Dandy

Medical Illustrations discovered

Paul J. Camarata, MD, FACS
Department of Neurosurgery
University of Kansas
Sibyl S. McDonald del.
A FAMED SURGEON DIES

DR. WALTER E. DANDY, 60, WAS FROM SEDALIA, MO.

Renowned Johns Hopkins Professor Was Daring and Amazingly Successful in Delicate Brain Operations.

BALTIMORE, April 19. (AP) — Dr. Walter E. Dandy, internationally-known brain surgeon, died this morning at Johns Hopkins hospital where he had performed his greatest work. He was 60.

Dr. Dandy entered Johns Hopkins hospital last night and died at 10:45 a.m. today from a coronary occlusion, the hospital announced.

He was professor of neurological surgery and had treated patients from all over the world.

HIS SECOND ILLNESS.

Swift, the satirist. Dr. Dandy cut the auditory nerve in half, effecting a permanent cure with almost no risk and no after effects.

LOST ONE OUT OF 400.

In 1940, Dr. Dandy reported 401 operations with this technique. There were 400 cures and one death.

Known as a daring and skilful man with a scalpel, Dr. Dandy frequently brushed aside long-cherished notions on operative technique. In 1930, he said that almost two-thirds of a man's brain might be cut away without damaging the intellectual powers.

Proving his point, he removed both frontal lobes of one patient's brain. The patient recovered completely.

By 1940, Dr. Dandy's fame was such that when Leon Trotsky lay dying in Mexico City of an assassin's hammer blows, the Hopkins surgeon was flown to Mexico in a chartered plane in a last desperate attempt to save Trotsky's life.
Anteoposis.

1. Louis Biehl  June 21st (Pachymaningitis)
2. John Dorsey  24th (Pineal Tumor)
3. Robt. Gaswell  26th (Sinus Hypoposed duel
4. Geo. Gates  27th (Pontine Bridge Tumor)
5. James Kernohan  July 15th (Fractured Skull)
6. Vieuxan Phipps
7. Eliz. Georgious
8. Eliz. Sappington  21st (Hydrocephalus)
9. Robt. Probst
10. Helen Shoen  Aug 1st (Gliomata in Brain Stem
11. Joseph Roskin  7th (Cerebeller-Meningitis)
12. Helen Richard
13. Edwin Snyder
14. Roberta Fairlee  Sept. 5th (Brain Abscess)
15. Mrs. Morse  July 24th (Gliomata)
16. Foster Williams  Sept. 16th (Hydrocephalus)
17. Harry Brugger  Sept. 19th (Gliomata Magna)
July 31, 1923. Solomon.

46. Draw vein in Sylvian fossa.

Aug. 1. Shown.

47. Operative exposure.

48. Diagram showing position of brain stem. Quiet.

Aug. 4. Beall examining.


50. Diagram medical sectioning of aqueduct, affecting 3rd
Central nuclear microscopy regimen.

Ventriculo-ography - following ventricular lesions.

General Symptoms of Brain Headache, vomiting, etc.
List of Drawings to be Made for Dr. Dandy.

1. Rote - Cerebellar-pontine tumor. Branches to be requested from tumor.
2. Operative condition - Plastic tumor in angle of skull and up to tentorium -

Brings view of brain showing tumor in a

ree branches from the basilar 52 from vertebral to


line of incision.

Skin incised, temporal muscle retracted, zygoma is

and stellate incision made in dura.

Brain retracted, exposure of optic nerve, int. ex-

ting and hypophysis, with stack head turned.

Hypophysis loosened from anterior or posterior

masses with mosquito forceps.

Hypophysis removed with mosquito clamps.

Surgery - Venous Anastomosis - Facial and S