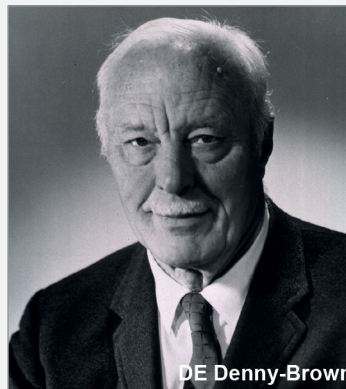


## 1960s

1960

### BIOMEDICAL MILESTONES

- Hornykiewicz and Ehringer report striatal dopamine deficiency in Parkinson's disease.
- ANA President in 1960, D.E. Denny-Brown, was best known for ground-breaking work on pathophysiology of movement disorders, including tremor, athetosis, dystonia, parkinsonism, and sensory ataxia



### HISTORICAL CONTEXT

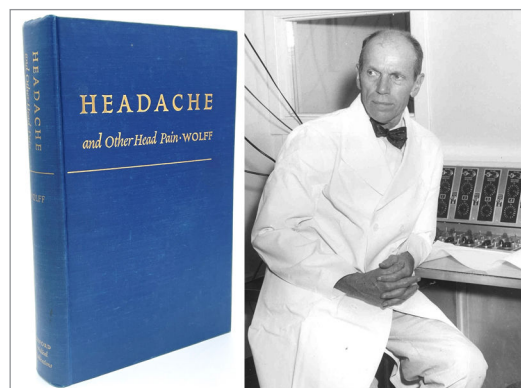
First televised Presidential debate in US history.

1961

### BIOMEDICAL MILESTONES

ANA President in 1961, H.G. Wolff showed that the migraine aura results from vasoconstriction, while the headache phase is due to vasodilation; rigorously tested treatments such as ergotamine tartrate and vasodilators.

Published the authoritative textbook, *Headache and Other Head Pain*. He died in 1962 of a cerebral thrombosis.



### HISTORICAL CONTEXT

First manned space flight: Yuri Gagarin orbits earth once.

1962

## BIOMEDICAL MILESTONES



V.A. McKusick in the 1960's (left) photographing hands of a child in his studies of Amish families that identified gene associations with achondroplasia & other conditions

Victor A. McKusick creates at Johns Hopkins the Mendelian Inheritance in Man (MIM) that begins to comprehensively catalog genes and phenotypes associated with heritable human disorders. Published in print until 1998, MIM became an online version, OMIM, in the mid 1980's.

1963

## BIOMEDICAL MILESTONES

Eccles, Hodgkin and Huxley receive Nobel for elucidation of neuron cell membrane (synaptic transmission, action potentials and propagation).

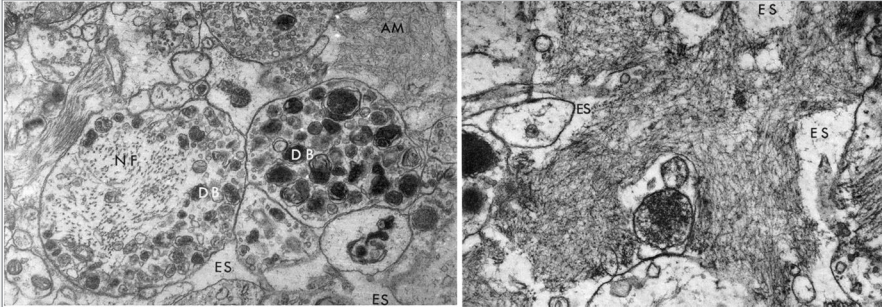
## HISTORICAL CONTEXT

JFK assassinated.

1964

## BIOMEDICAL MILESTONES

Robert Terry reports EM of plaques and tangles in Alzheimer's Disease.



Electron Micrographs of plaques and tangles from an Alzheimer's Disease brain. From R. Terry et al., Trans Am Neurol Assoc. 1964;89:12. PMID: 5828485. AM=amyloid fibrils, NF=neurofibrils, ES=extracellular space, DB=dense bodies

## HISTORICAL CONTEXT

LBJ Great Society programs 1964-1968.

Civil Rights March on Washington.

1965

## BIOMEDICAL MILESTONES

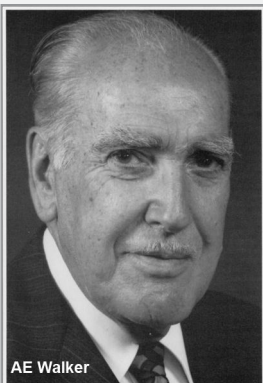
Medicare and Medicaid enacted.

## HISTORICAL CONTEXT

US escalation in Viet Nam  
1965-1973.

1966

## BIOMEDICAL MILESTONES



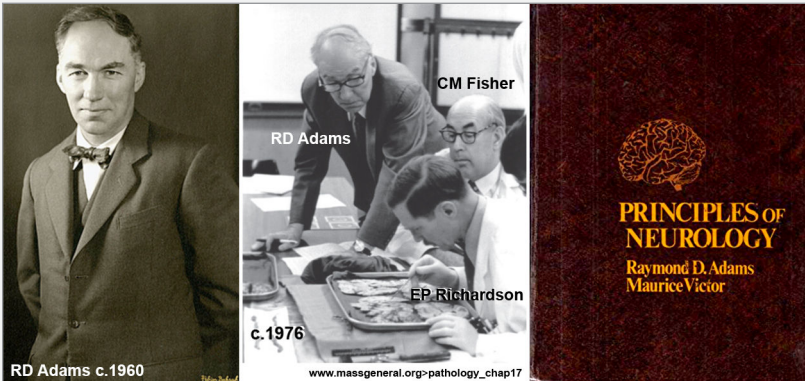
ANA President in 1966, A.E. Walker established at Johns Hopkins the 1st neurosurgery residency program, making research training a core component. He founded the 1st EEG clinical laboratory in the US, later named in his honor.

## HISTORICAL CONTEXT

"Star Trek" TV series  
airs in US.

1967

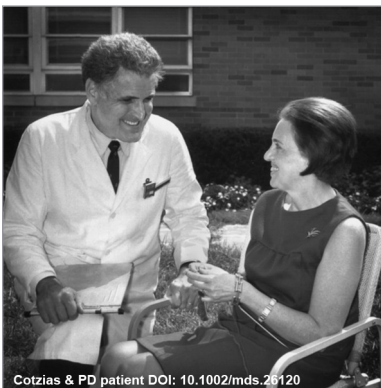
## BIOMEDICAL MILESTONES



- Granit, Hartline, Wald receive Nobel for retinal electrochemistry of light and color.
- ANA President in 1967, R.D. Adams, with M. Victor, was founding editor of *Principles of Neural Science*, the definitive textbook of pathophysiology of neurological disorders.
- First human heart transplant.

1968

## BIOMEDICAL MILESTONES



- Sir M. Roth reports Alzheimer's is not rare but instead is a common senile dementia.
- George Cotzias reports superior efficacy of L-DOPA for Parkinson's tremor.

## HISTORICAL CONTEXT

MLK Jr. and RFK assassinated.

1969

## HISTORICAL CONTEXT

- Neil Armstrong 1st to walk on the moon.
- Woodstock concert.

