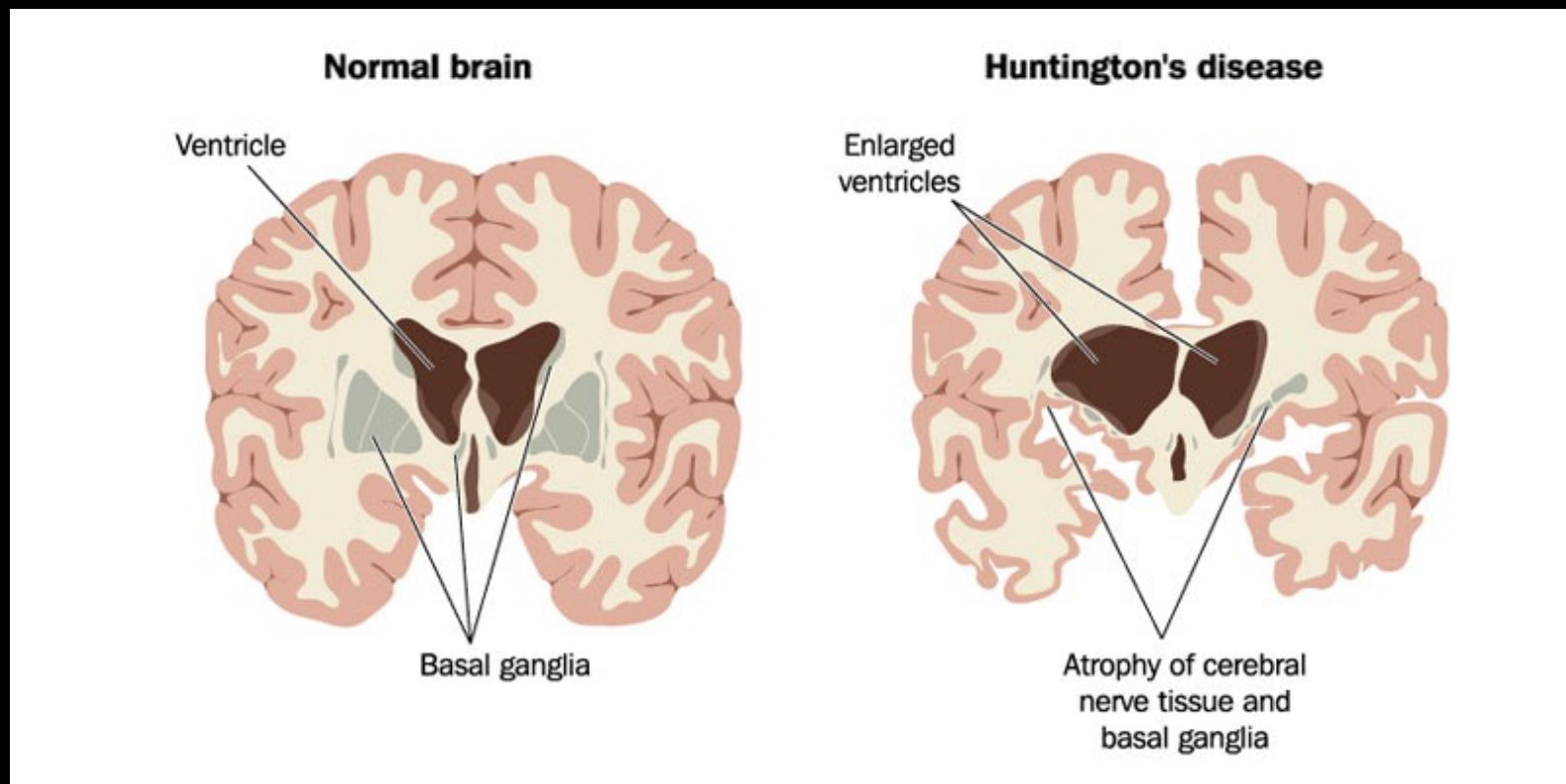


Huntington's Disease (HD)

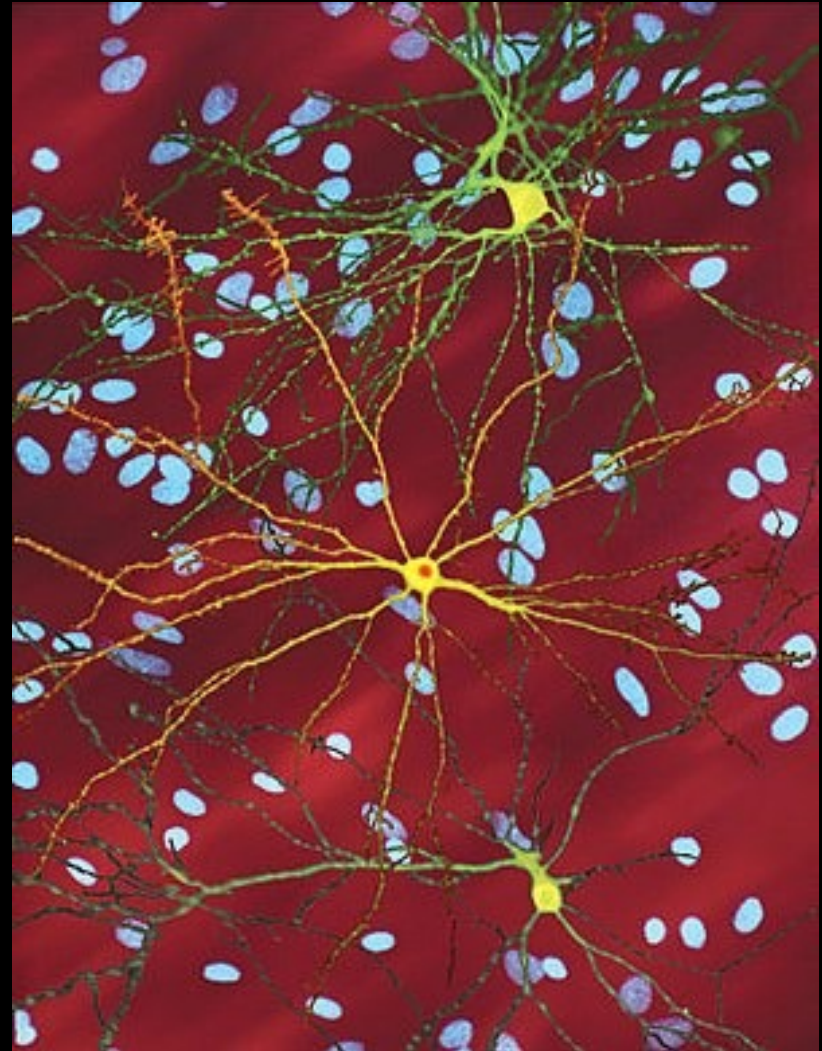
Manika Bansal



Brain scans courtesy of the Feinstein Institute

What is it ?

- Death of brain cells



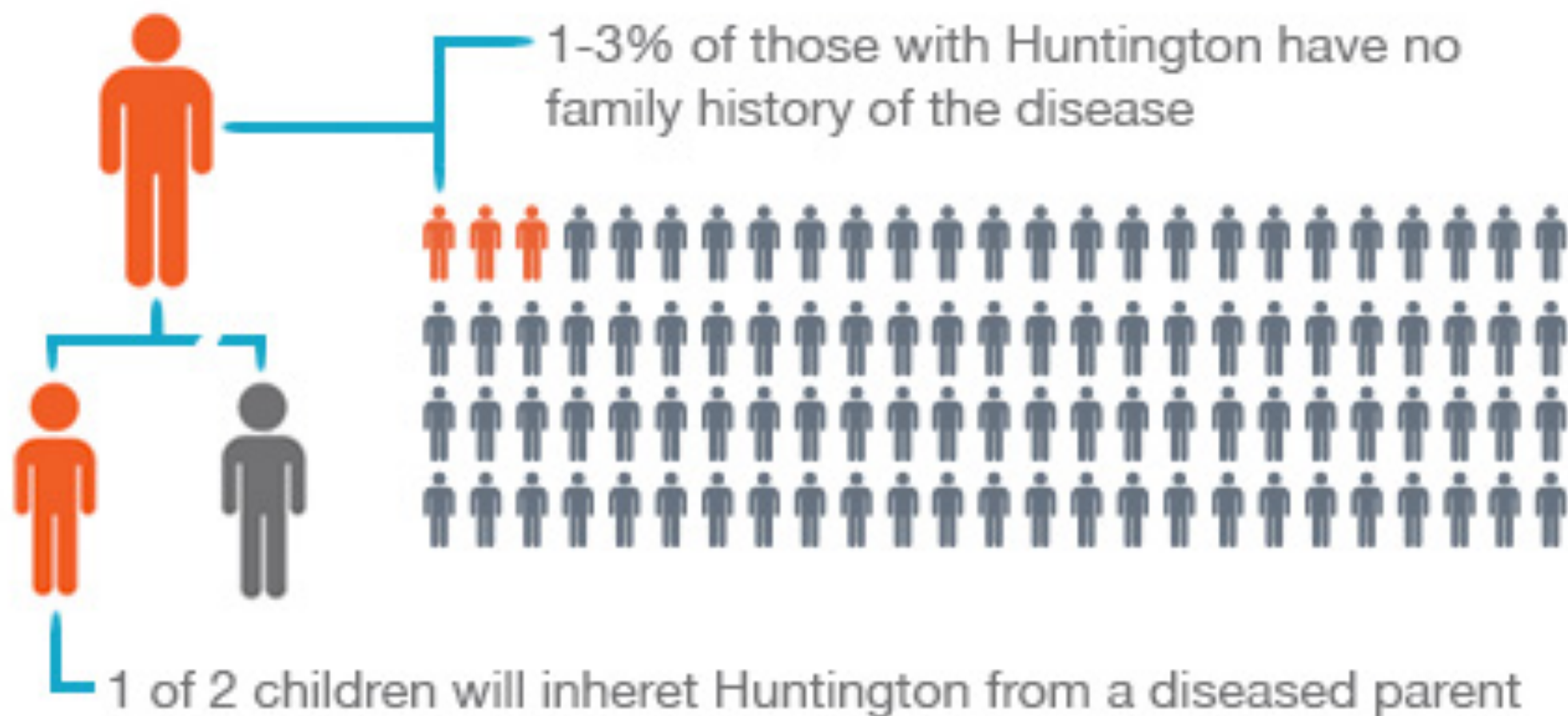
Cause

- Genetic
 - Inheritance
 - New mutation

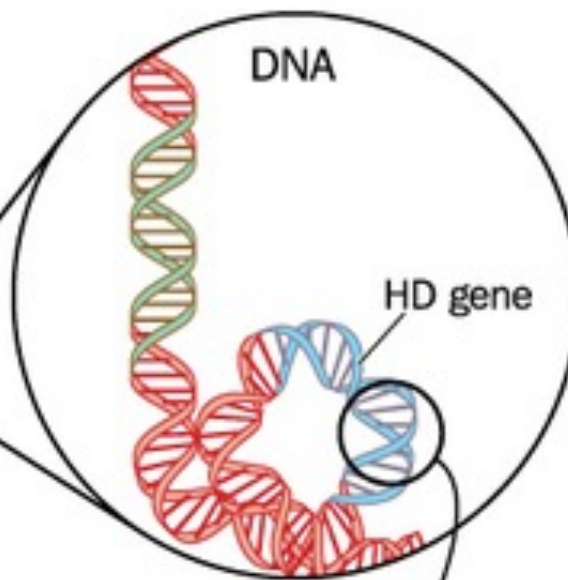
	t	t
H	Ht	Ht
b	bt	bt

50%

HUNTINGTON DISEASE STATISTICS

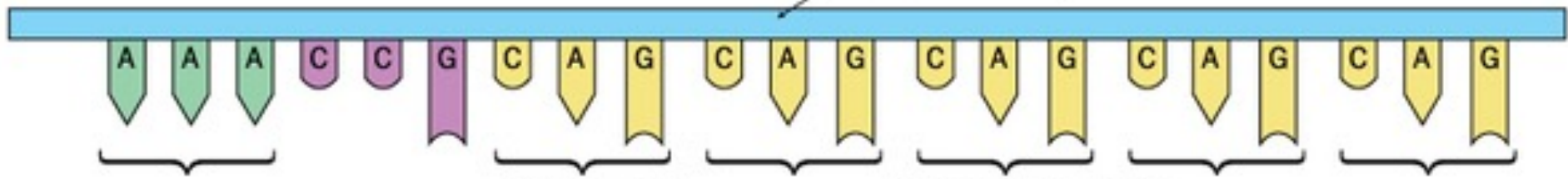


Short arm of chromosome 4



TRANSCRIPTION (in the nucleus)

DNA strand

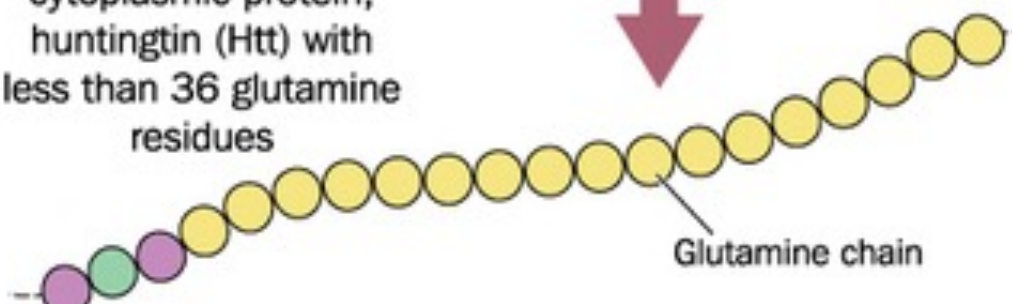


Codon (triplet of 3 nucleotides which code for a specific amino acid)

CAG codes for the amino acid glutamine

Repeating CAG codons.
The normal gene has less than 36 repeats.
Mutated gene has more than 36 repeats

Normal cytoplasmic protein, huntingtin (Htt) with less than 36 glutamine residues



Abnormal huntingtin (mHtt) with more than 36 glutamine residues

Huntington's disease

Symptoms

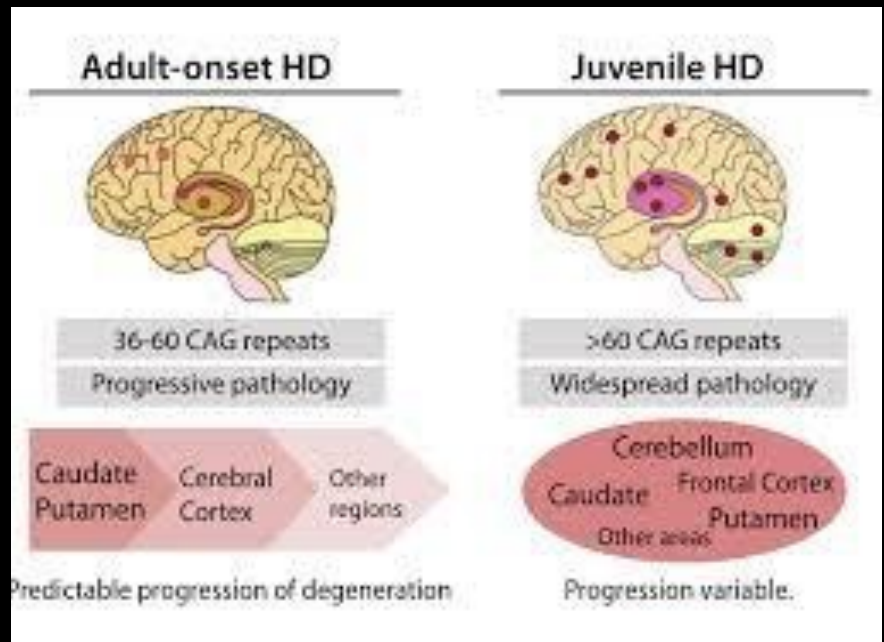
- Mood or mental
- Lack of coordination
- Jerky body movements
- Unable to talk
- Dementia
- More children



Support/Treatment

- No cure
- Tetrabenazine
- Supportive care





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ORIGINAL DEPARTMENT.

Communications.

ON CHOREA.

By GEORGE HUNTINGTON, M. D.,
Of Pomeroy, Ohio.

Essay read before the Meigs and Mason Academy of Medicine at Middleport, Ohio, February 15, 1872

Chorea is essentially a disease of the nervous system. The name "chorea" is given to the disease on account of the *dancing* propensities of those who are affected by it, and it is a very appropriate designation. The disease, as it is commonly seen, is by no means a dangerous or serious affection, however distressing it may be to the one suffering from it, or to his friends. Its most marked and char-

The upper extremities may be the first affected, or both simultaneously. All the voluntary muscles are liable to be affected, those of the face rarely being exempted.

If the patient attempt to protrude the tongue it is accomplished with a great deal of difficulty and uncertainty. The hands are kept rolling—first the palms upward, and then the backs. The shoulders are shrugged, and the feet and legs kept in perpetual motion; the toes are turned in, and then everted; one foot is thrown across the other, and then suddenly withdrawn, and, in short, every conceivable attitude and expression is assumed, and so varied and irregular are the motions gone through with, that a complete description of



George Huntington

Rebecca Ambrose

- Raise awareness
- “Alive and Well”



Brain your isms

Fate whispers
to the
warrior

"You cannot
withstand the storm"

and the warrior
whispers back

"I am the
storm"