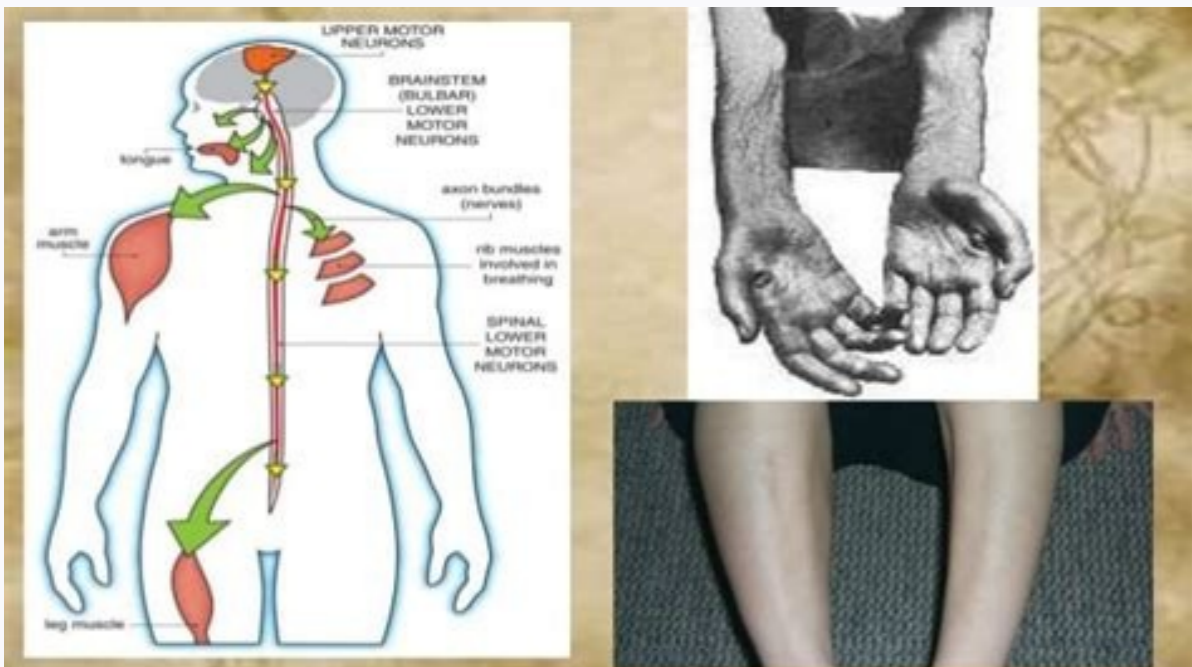


I'm not robot!



An Incurable Disease

Amyotrophic lateral sclerosis (ALS), also known as Lou Gehrig's disease, has no cure and there is no definitive reason why it occurs. The disease leads to progressive muscle weakness, paralysis and death.

AREAS AFFECTED

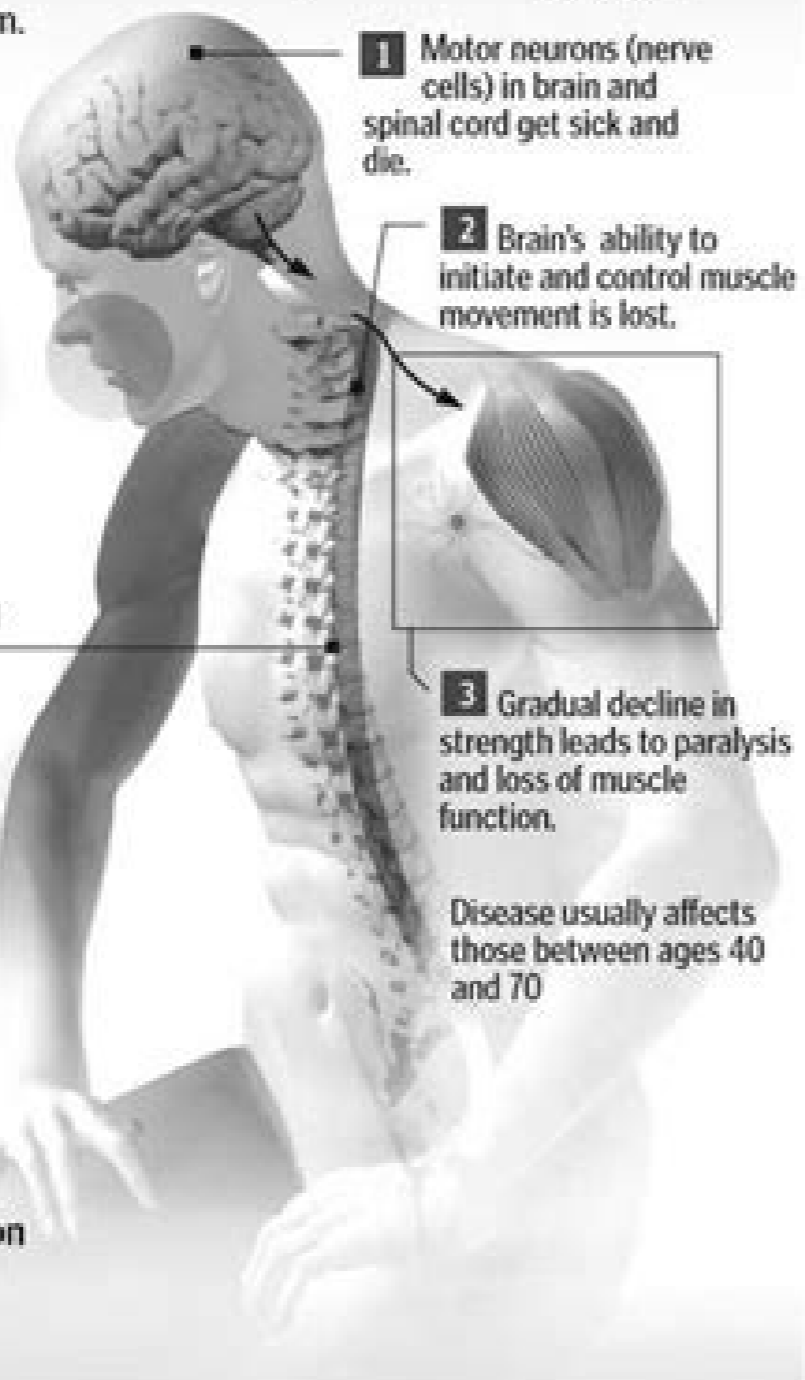
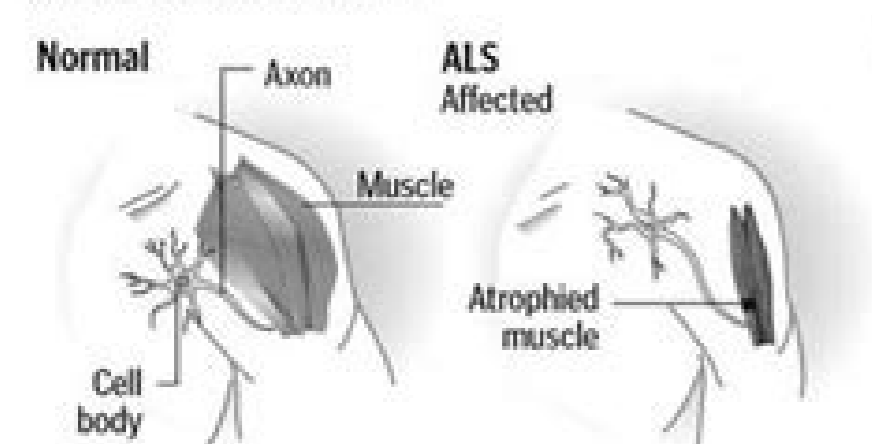
- Arms
- Swallowing
- Legs
- Breathing
- Speech

5,600 People diagnosed in the US each year

WHAT IS ALS?

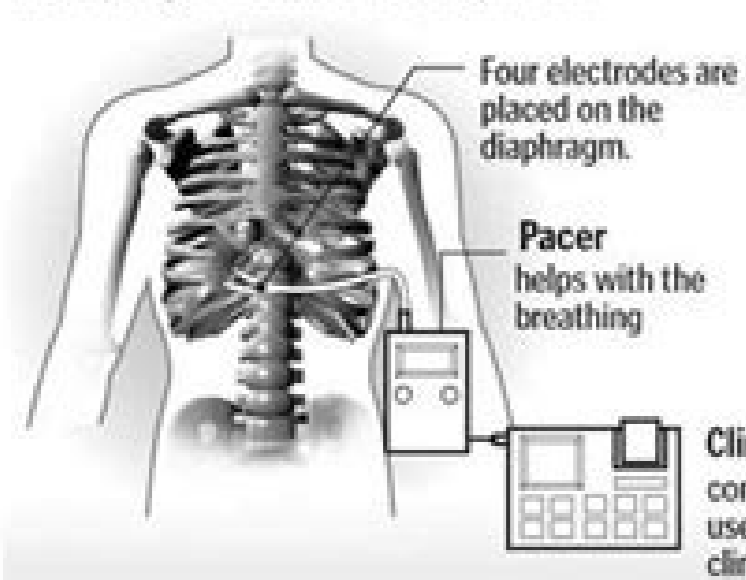
Progressive degenerative disease of central nervous system.

NERVE CELL AND MUSCLE



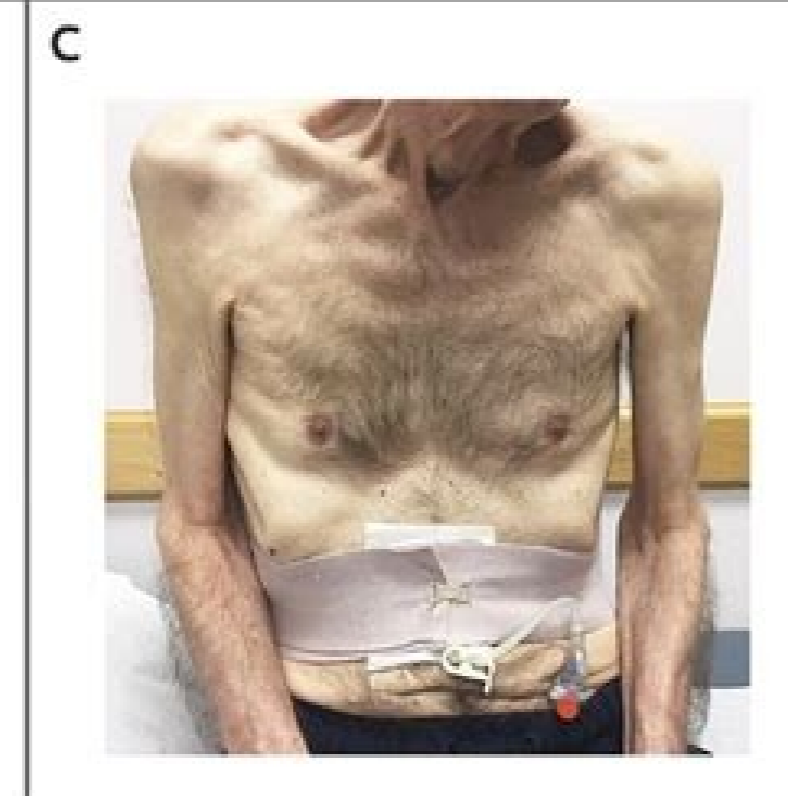
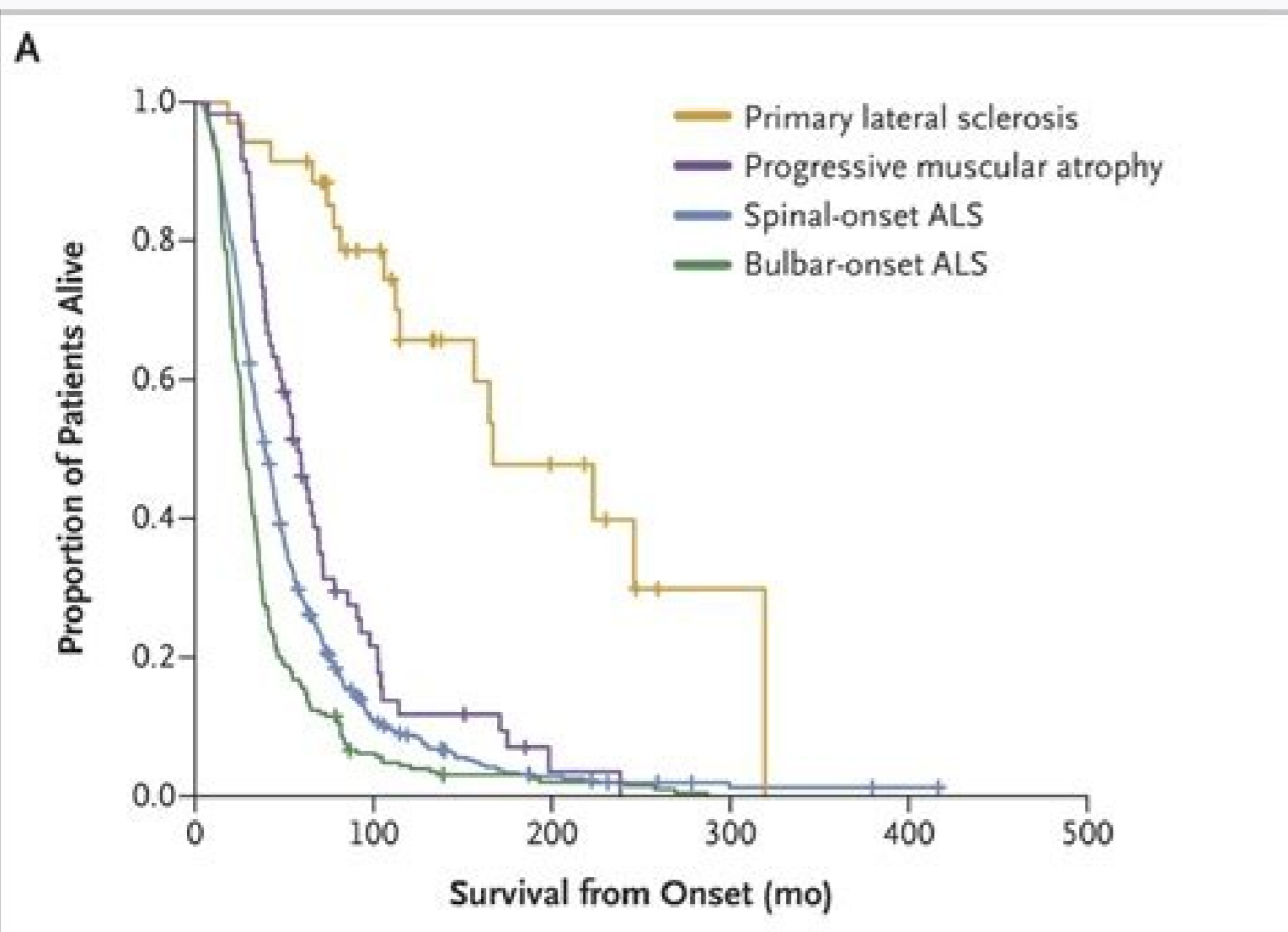
Pacing Stimulation System

The stimulator provides the timing and control of stimulus levels to activate sufficient movement of the diaphragm muscle to affect respiration.



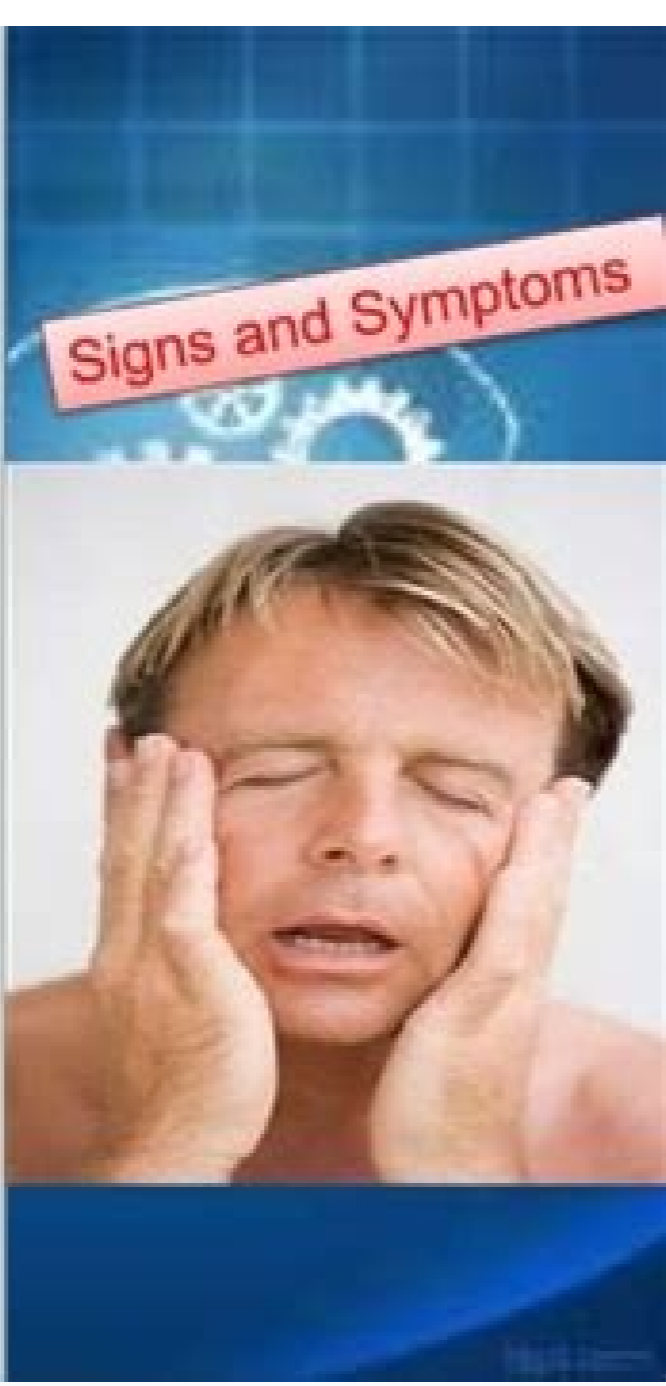
SOURCE: ALS Association, Synapse Biomedical

STATEN ISLAND ADVANCE/ALBERTO CERVANTES



Bulbar Als Onset

- Condition where the disorder strikes the tongue rather than limbs
 - Pons an medulla area of brain stem was known the pons or bulbar area of the brain
 - The nerves on the facial region that are connected with the bulb region of the brain controls Throat, jaw, tongue and face
 - Als disease causes the death of nerves of face or bulbar region and decreases functioning of motor neuron, resulting in spastic bulbar palsy
- Q) What are Bulbar ALS problems?
1. Slurred speech
 2. difficulty in swallowing and chewing food



From a total of 1177 patients with consecutive sporadic als, 154 were patients with bulbar onset. Among these patients, 39 were excluded, including 33 lost at follow-up and 6 who did not know the exact time of FSLI, and the remaining 115 patients (66 males, 49 females, average ETH 57.8 ± 10.3 Years, range 34 to 80 years) were recruited retrospectively. The patients with ALS with 115 bulbaries showed an average of the onset of 56.9 ± 10.2 years (34 to 79 years), a median disease course of 12 (2, 43) months with initial symptoms and an average alsfrs-r score of 39.8 ± 6.0 (of 18 to 48) to the first visit to our department. The median duration from the beginning bulbar to FSLI was 9 (1, 39) months. Alongside bulb, upper limbs, lower limbs or upper and lower inferior limbs almost at the same time, they were first involved significantly involved in 100, 7 and 4 patients respectively. No limb was involved in 4 patients until they suffered death or tracheotomy. Only 34 (29.6%) and 23 (20.0%) patients used reluctance and non-invasive ventilation (NIV), respectively. A total of 111 patients suffered the primary events of December 2016, and the median survival time was 29 (11, 83) months. Duration cutting point from the beginning bulbar to the FSLICOX regression was used to analyze the influence of the factors on survival, including sex, the debut age, the duration from the beginning bulbar to fsl, alsfrs-r to the First visit to our department, the use of Riluzolo and NIV (Table 1). The duration from the beginning bulbar to fsl had the most significant influence on the survival time (p

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