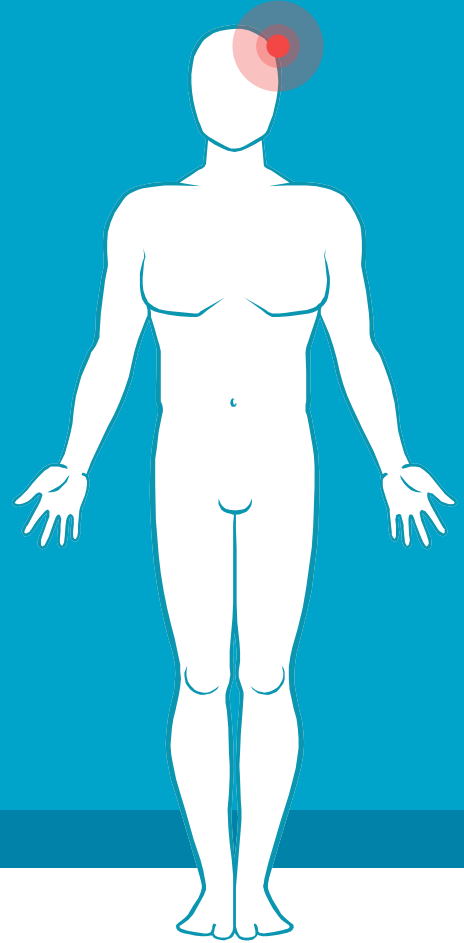


INTRO TO THE NERVOUS SYSTEM



AGENDA

1

Introduction

2

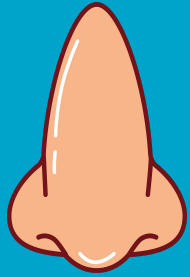
Parts of the Brain

3

Parts of the Neuron

4

Sheep Brain Dissection!



*Would you rather lose
your sense of smell or
your sense of taste? Why?*



1.

THE PARTS OF THE BRAIN

How many lobes are there in the human brain?

A. 3

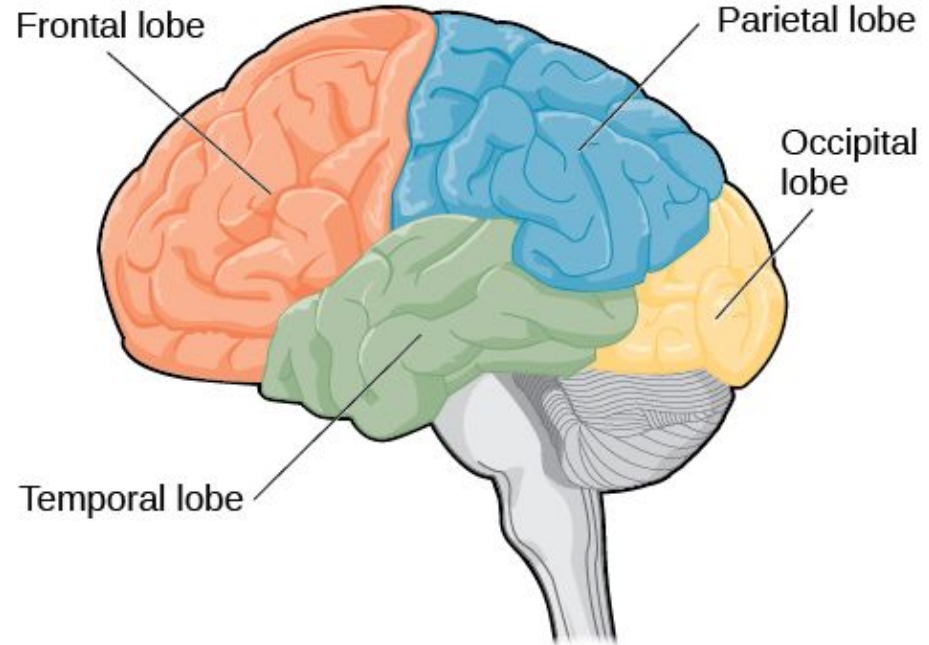
B. 4

C. 5



Lobes of the Brain

- ▶ **Frontal:** cognitive functions, muscle movement, speech production
- ▶ **Parietal:** processes information about temperature, taste, touch and movement
- ▶ **Temporal:** processes auditory information and memories
- ▶ **Occipital:** responsible for vision



Brainstem

PONS

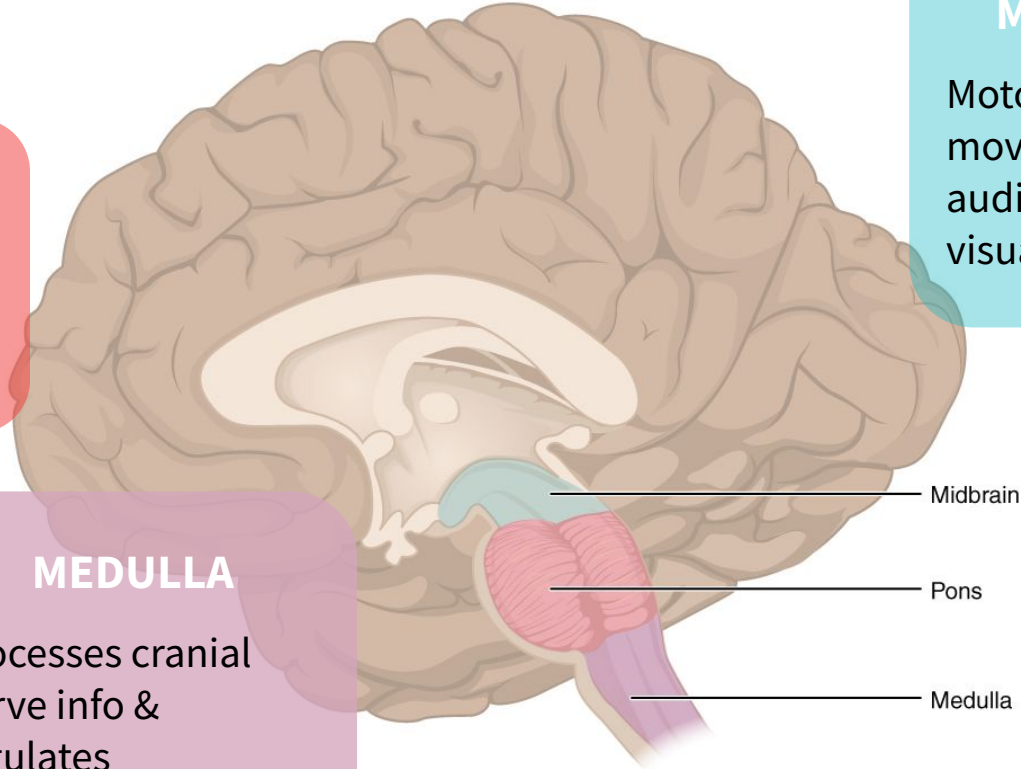
Regulates breathing & REM sleep

MEDULLA

Processes cranial nerve info & regulates heart/breathing rate

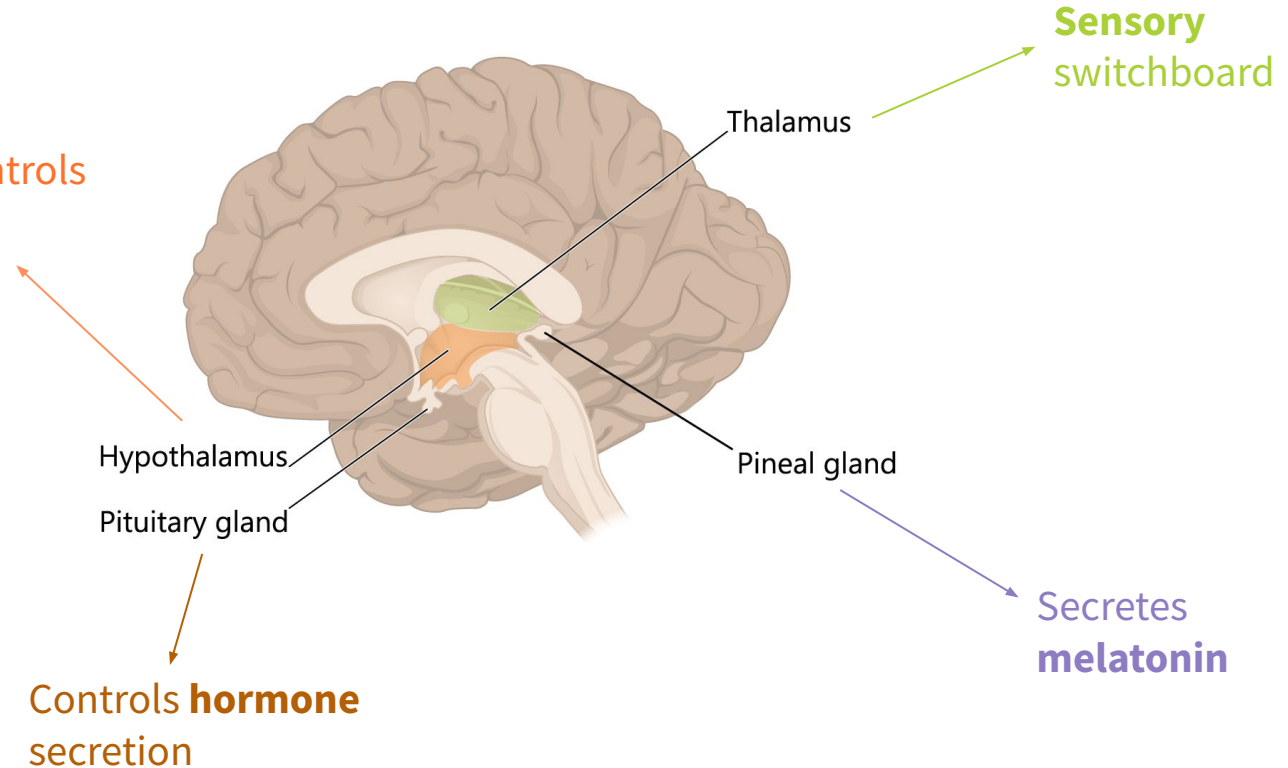
MIDBRAIN

Motor/eye movement, auditory and visual processing

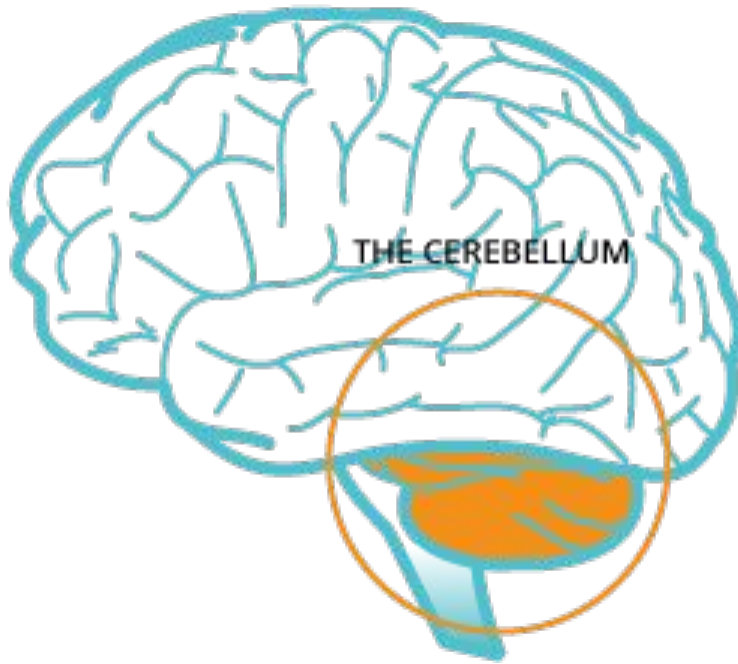


Diencephalon

Regulates **homeostasis**, controls endocrine system



Cerebellum

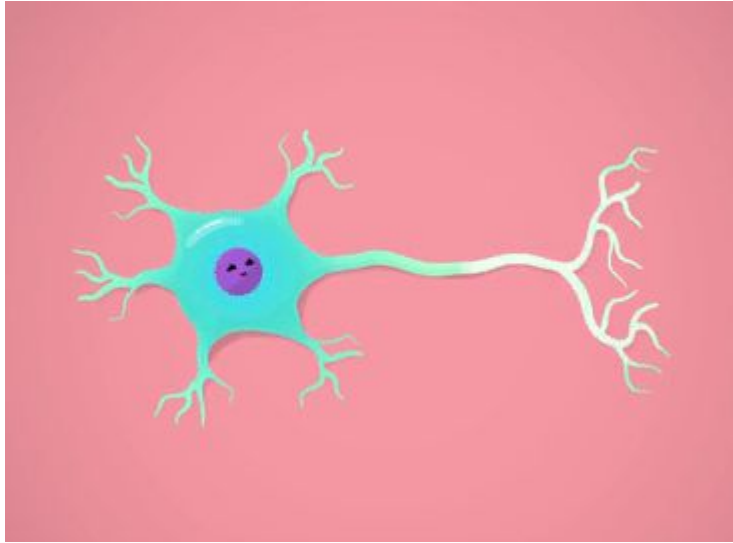


- ▷ “Little Brain”
- ▷ Responsible for **balance and coordination**
- ▷ Maintain **posture**
- ▷ **Cerebellar ataxia**: lack of voluntary coordination of muscle movements

2.

THE PARTS OF A NEURON

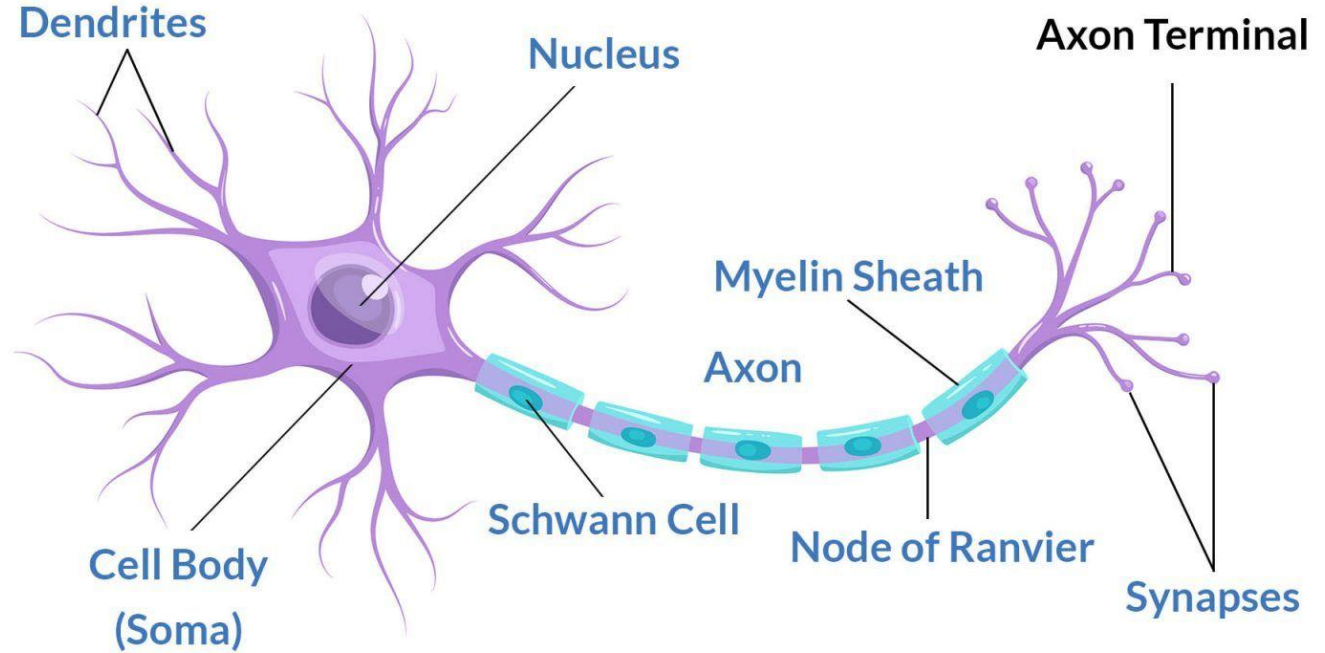
What is a Neuron?



Neurons (or **nerve cells**) are specialized cells that *send and receive electrical signals* in the body.

Neurons are composed of three main parts: **dendrites**, a **cell body**, and an **axon**.

Signals are received through the **dendrites**, travel to the **cell body**, and continue down the **axon** until they reach the **synapse** (the communication point between two neurons).

PARTS OF A
NEURON

How long can the body of the neuron be?

At least a meter long!

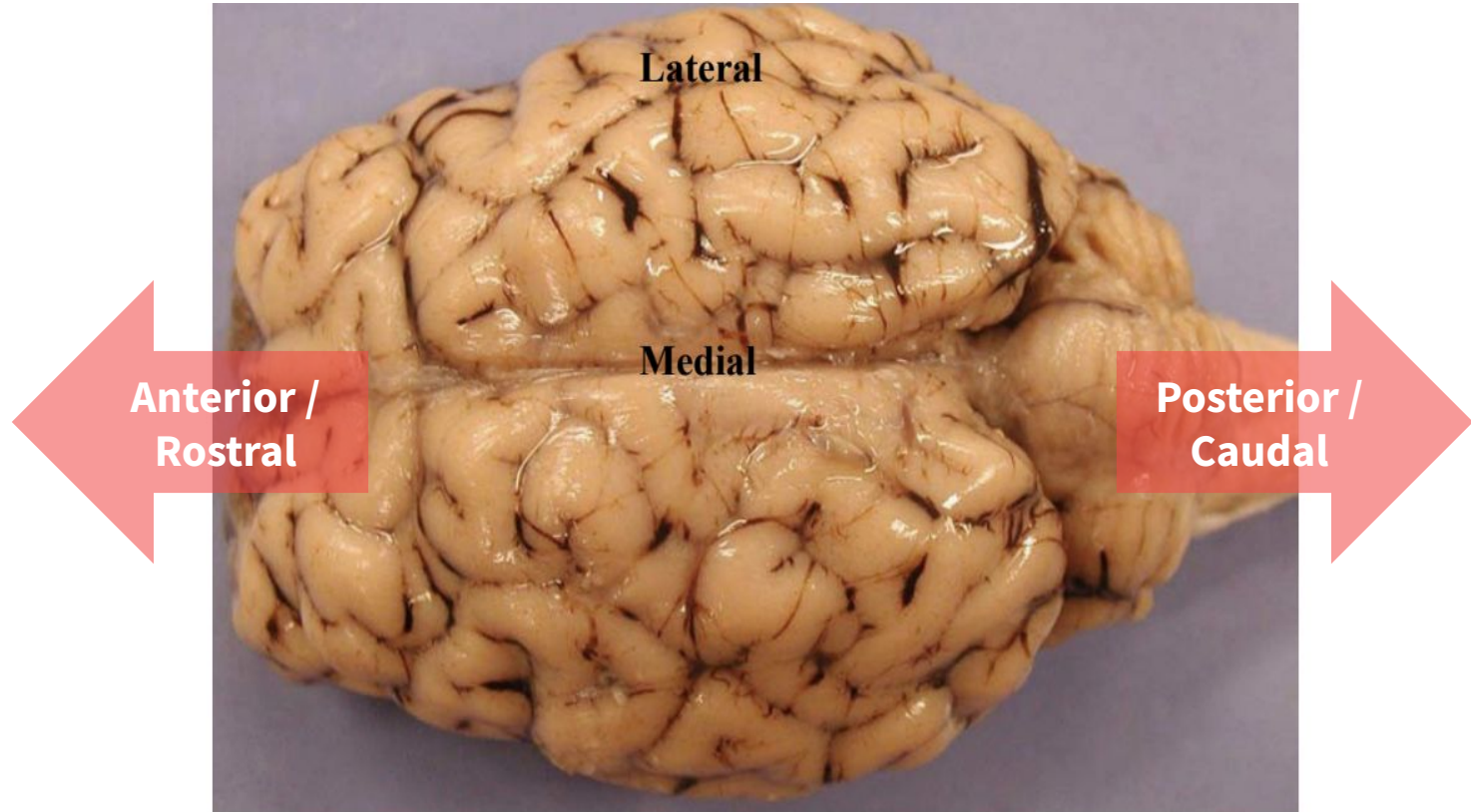


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3. SHEEP BRAIN DISSECTION!

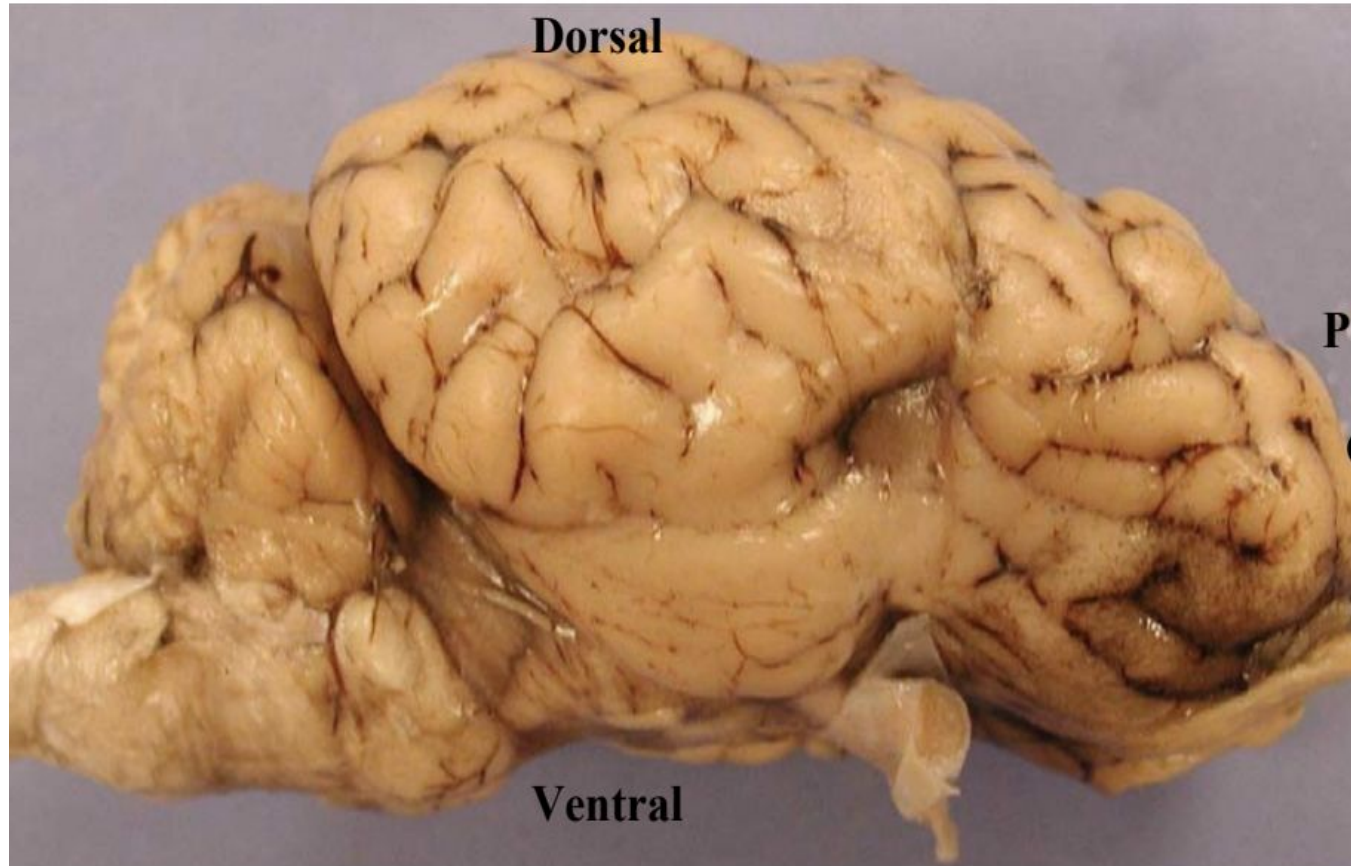
17

SHEEP
BRAIN
ORIENTATION



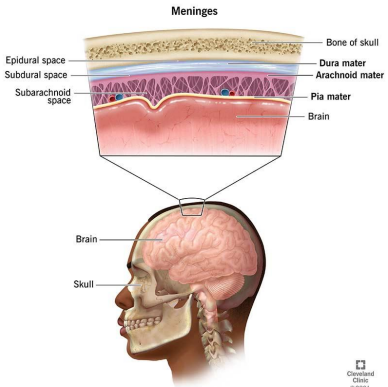
18

SHEEP
BRAIN
ORIENTATION



19

DURA MATER



20

SHEEP
BRAIN
DISSECTION





THANK YOU!

Any questions?

Contact us!

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- ▶ Instagram: @theprojectmed
- ▶ Website: www.theprojectmed.org