**ACTIVITIES FOR THIS WEEK #4 (Homestasis and Use of Controls/VOIAN Muscle that moves the forearm--Brachialis)**

**Overview**

Homeostasis is maintaining a balanced internal environment through adjustment mechanisms of the organ systems (viscera). To maintain homeostasis, the human body evaluates conditions constantly. The human body responds accordingly to the environmental changes. To establish homeostasis, the human body detects changes and encodes the changes. Then, the human body processes the sensory information and generates a response. Finally, the human body integrates all the activities involved in the maintenance of homeostasis. The systems involved are the nervous system and the endocrine system.

Homeostasis is maintained by the dynamic mechanisms to certain set points. There are 2 feedback identified and these feedback are the negative feedback and the positive feedback. Negative feedback is the mechanism that keeps changes in the “opposite” direction. Conversely, positive feedback is the mechanism that keeps changes in the “same” direction.

The concept of Dynamic Chess is maintaining the central power of concentration. This is akin to the set point. Finally, with regards to the controls, the controls are Engineering Control, Adminstrative Control and the use of PPE. These controls keep the viral load to the minimum akin to maintaining homeostasis.

TBA

**These are the following activities for this week. I revised the Activities For This Week to accommodate any Global Farmer-Engineer joining this course anytime. Also, I revised the Activities For This Week to accommodate any Health Care Provider joining this course anytime as a refresher course.**

**A. Discussion Forum Activities**

**Discussion Forum Activity –**

The Global Farmer Engineers should answer the questions in the Discussion Forum. The Discussion Forum consists of two parts. The first part will be your response to the main question(s). The second part will be your response to your binary.

Answer the Discussion Forum questions for the week by posting to your binary. For Part 1, Military Checkpoint (MC) #1: What is negative feedback? Military Checkpoint (MC) #2: What is positive feedback?

For Part 2, Evolutionary Medicine concept states that the organ systems of the human body evolved in order to allow the maintenance of “set” points, even in the presence of environmental changes. For Part 2, give an example of negative feedback and a positive feedback mechanisms.

**B. CONNECTING THE CONCEPTS**

The CONNECTING THE CONCEPTS exercises identify the need to integrate the concepts through the course. You will recognize that learning the concepts is not based upon memorization. Instead, learning the concepts is based on connecting and linking the concepts even if it seems to be of different topics. Let me explain, the CONNECTING THE CONCEPTS exercises act as the threads that unite the concepts throughout the course. You will be using the CONNECTING THE CONCEPTS exercises when you build your Binary Project Paper.

There are five concepts that you have to use in sentences every week. Connecting The Concepts exercise is a critical thinking exercise I designed and I have been using Connecting The Concepts for 30 years now. The five concepts for this week are:

**1. Integumentary System**

**2. Homeostasis**

**3. Space suit**

**4. Central Concentration of Power**

**5. Brachialis muscle**

Post your responses by sending your sentences to your binary.

**C. Binary Project Paper –** Plan your work and create your paper based on the Anatomy, the Physiology, the VOIAN, the Hazards, the Controls, and the Military Science concepts involved with the muscle chosen. With regards to the controls, the controls are Engineering Control, Administrative Control, and the use of Personal Protective Equipment. Military Concepts, which are Chess Concepts, are also included in your Binary Project Paper.

You have to research and write a paper on VOIAN and related concepts before the end of this course. Updates will be given every week. The Binary Project Paper is due on the Week of 7/15/24.

For this week, your focus for your binary project paper is i**dentifying the VOIAN of the muscle chosen.** Work with your binary.

**D. VOIAN Exercises and Laboratory Exercises and Evolutionary Video Exercises**

**VOIAN Exercises**

The **VOIAN Exercise** is my original that I made for my **Boston** Health Careers students. The **VOIAN Exercise** is related to **“dissections”** of the different muscles. The **VOIAN data** that you generated have to be **researched** with your binary. **V** stands for **view**. **O** stands for **origin** (the stationary part of the muscle). **I** is for **insertion** (the opposite end of the muscle that moves). **A** is for **action** (the movement caused by the muscle). Finally, **N** is for **nerve** (the nerve involved in the muscle). This assessment, like the other assessments, in this course, have corresponding rubrics attached to the syllabus to clearly state learning goals and objectives.

There is one movie or video that you have to watch. VOIAN exercises are aligned with the objectives of this course. Watch a movie or a video of your choice and the choice of your binary on the assigned muscle for this week. For this week, the assigned muscle is the **brachialis** **muscle**.

The **View** (V) is given. The **V** is left lateral.

**V = left lateral**

**O =**

**I =**

**A =**

**N =**

**Laboratory Exercise #4**

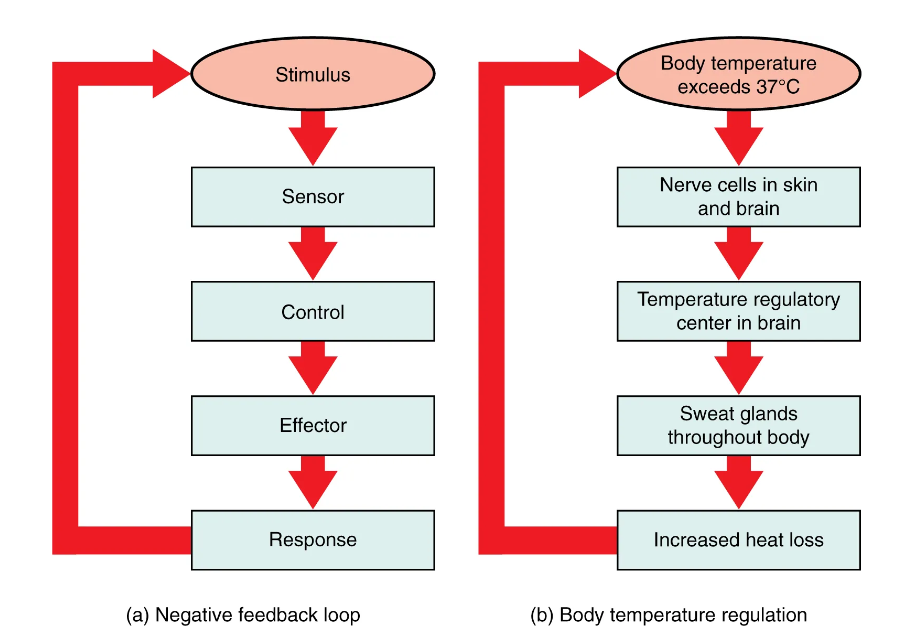
**Objective**

I will be able to explain the picture of (ETP) of the Regulation of the Body Temperature by negative feedback.

**Materials**

Professor Deauna’s lecture, Open Educational Resources Journals, Cellphone, and outside

SOURCE: **https://med.libretexts.org/Bookshelves/Anatomy\_and\_Physiology/Human\_Anatomy\_(OERI)/01:\_An\_Introduction\_to\_the\_Human\_Body/1.05:\_Homeostasis**



**Procedures**

1. I will review what a “sensor” is.
2. I will review what a “control” is.
3. I will review what an “effector” is.
4. I will review what is the normal body temperature.
5. I will review the regulation of room temperature using negative feedback mechanisms.
6. I will explain the picture (ETP) of the regulation of the body temperature using negative feedback.
7. I will record my data, which are my results.
8. I will make my conclusion with my binary.
9. I will discuss my conclusion with my binary.

**Result**

**Conclusion**

Make your conclusion with your binary.

**Open Questions:** E-mail your questions at [numbers115@aol.com](mailto:numbers115@aol.com).

Questions can be related to APEMS (Anatomy, Physiology, Evolutionary Medicine and Military Science). Questions can be pertaining to COVID and other viruses. Questions can be on how to produce rice for all. Questions can be on Mom’s Grassy Farmlands Nuclear Bunkers Rice Complexes and Universities. Finally, questions can be on Mom’s Grassy “Extension”.

Do your best!

**Professor Deauna**