

## What is a Mnemonic?

*Derived from antiquity!*

First documented by Roman and Greek philosophers in 500 B.C.

“Mnemonic” stems from Greek words:

- Mneme (memory)
- Mnemon (mindful)
- Mnemosyne (Greek Goddess of Memory)
  
- Used for memorization of long speeches by Greek poets by means of a *loci et res* (structure and items)

## Five Types of Memory:

### **Semantic memory**

Not learned from experience: colors, alphabet

### **Episodic memory**

Details of events requiring processes: encoding, consolidation/storage and retrieval.

### **Procedural memory**

We remember how to perform everyday tasks, such as tying shoes

### **Automatic memory**

Unconscious memory enabled by previous experience

### **Emotional memory**

Cue leads to retrieval of a [conscious](#) memory about emotional event causing emotional response in new situation.



## Purposes of Medical Mnemonics

### Remembering content

Complex serious of material  
Mental means to recall components of theory

Helpful if there is *dissociated ideas* needing recall

### Triggering actions

Recall of sets of behaviors  
Lists of actions required during complex tasks

## Three General Types of Mnemonics:

- Rhymes
- Acronyms (letter strategy)
- Key words or Pegs



## **Examples of Mnemonics**

### **Remembering material:**

Medications that need double checking by two nurses in pediatrics:

#### ***D'Bitchen***

**D**igoxin or any cardiac medication

**B**lood and blood products

**I**nsulins or any hypoglycemic

**C**hemotherapeutics and related anti-cancer drugs

**H**eparin or any anticoagulant

**E**lectrolytes

**N**arcotics

### **Triggering safe actions:**

#### ***CAB***

**A**ssessment of 12 cranial nerves

#### ***Discussion Thoughts***

What can be done to improve clinical safety in nursing with mnemonics?

Are there areas of safety concern that warrant further research?

What behaviors would you like to see nurses use universally?

What barriers can you anticipate if mnemonics were introduced at your institution?

What is the relationship between mnemonics and check lists

## **Previous Study: Code Response**

### *Code Blue Mnemonic*

Series of components required without task order  
ABCD COPI ME

Skills accuracy: 95% skills accuracy increase  
(f(6,36) = 41.01)

Confidence: All scores increased after intervention  
(t(6) = 3.51, p<.01)

## **Previous Study: Chemotherapy**

Series of components of a safety mnemonic  
CHEMO SAFE and SOUND

### Pre-Chemo:

Consent

Health history and health assessment

Evaluation of patient, VS, clinical status, labs, neutropenia

Make sure parent is around

Organize all supplies, double check chemo the road map

### Intro-Chemo

Safe administration

Accurately double check all medications

Fluid and electrolytes safe

Ensure patent central line with blood return

### Post-Chemo

Symptoms

Observation

Urine

Need for education at home

Drugs needed for discharge: symptom management

## ***Series of steps to organize a response***

Mnemonic provided significant findings

Research findings demonstrated a higher level of recall in both information and in-order tasks

Higher confidence (*t-value -9,862, df 41, p.001*)

Higher skills performance (*85% increase in accurately performed skills as compared to pre-mnemonic intervention*)

Higher knowledge (*insignificant*)



## Ideas for Further Mnemonics

### ***Room safety check***

#### ***Quality***

#### ***QSEN***

## Ideas for Further Research:

### ***Hand-Off's***

***Just Go Nuts!*** (A nutty idea for patient handoffs. *Brief Patient Safe.* 2006;Nov:5-7.)

\* Name of patient, diagnosis, room number

\* Unusual or unique; variances identified on the individual care plan including critical lab values, pain management, etc.

\* Tubes such as IV, NG, catheters, drains, ostomies

\* Safety concerns such as falls, medication reconciliation

- ***Pace*** (Schroeder SJ., 2006)

Patient/problem

Assessment/actions

Continuing/changes

Evaluation

- ***Pediatric*** (Arora, V. & Johnson, J. 2006)

Problem list

Expected tasks to be done

Diagnostic one-liner

If/then

Administrative data/advanced directives

Therapeutics

Results and other important facts

IV access/invasive devices

Custody and current issues