

# **Health care and Pharmaceutical**

## **CERTIFIED EMERGENCY MEDICINE PHARMACIST (CEMP) Curriculum**

### **Program Outline :**

#### **Module 1: Fundamentals of Certified Emergency Medicine Pharmacist (CEMP)**

**1. Bedside Management of Emergencies:** Participating in the management of medical emergencies, such as trauma, stroke, psychiatric crises, and toxicological events, to optimize medication use.

**2. Triage and Patient Prioritization:** Identifying and prioritizing emergency department patients by analyzing relevant acuity indices and opportunities for optimizing pharmacotherapy.

**3. Medication Use Process:** Ensuring the safe and effective use of medications during resuscitations and other emergency interventions.

**3. Pharmacotherapy Optimization:** Identifying opportunities to optimize pharmacotherapy for emergency department patients, including adjusting dosages and selecting appropriate medications.

**5. Inter professional Collaboration:** Working closely with emergency department physicians, nurses, and other healthcare professionals to provide comprehensive patient care.

## **Module 2: Advanced Certified Emergency Medicine Pharmacist (CEMP)**

**1.Advanced Pharmacotherapy:** Developing expertise in the use of medications for complex emergency conditions, including critical care and multi-system trauma.

**2.Leadership in Emergency Care:** Taking on leadership roles in emergency departments to improve medication safety and patient outcomes.

**3.Specialized Clinical Skills:** Enhancing clinical skills for managing high-acuity patients and participating in advanced resuscitation techniques.

**4.Inter professional Collaboration:** Strengthening collaboration with emergency department physicians, nurses, and other healthcare professionals to provide comprehensive patient care.

**5.Regulatory and Compliance Expertise:** In-depth understanding of healthcare regulations and compliance requirements specific to emergency medicine pharmacy.

## **Module 3: Practical Applications**

### **1. Patient Care and Management:**

**Medication Therapy Management (MTM):** Pharmacists optimize medication regimens to improve therapeutic outcomes and reduce adverse effects.

### **2. Clinical Practice:**

**Patient Counseling:** Educating patients on proper medication use, potential side effects, and lifestyle modifications to enhance health outcomes.

### **3. Pharmaceutical Research and Development:**

**Drug Discovery and Development:** Conducting research to discover new medications and develop existing ones

### **4. Healthcare Technology and Innovation:**

**Telemedicine:** Using telehealth platforms to provide remote consultations, follow-ups, and health monitoring

## **Module 4: Capstone Project**

### **1.Impact of Telemedicine on Patient Outcomes**

Analyze the effectiveness of telemedicine in improving patient outcomes, especially for chronic disease management .

### **2.Pharmaceutical Waste Management**

Develop strategies to reduce pharmaceutical waste and its environmental impact.

### **3. Medication Adherence in Elderly Patients**

Investigate factors affecting medication adherence among elderly patients and develop interventions to improve adherence.

### **4. Implementation of an Electronic Health Records (EHR) System**

Assess the challenges and benefits of implementing an EHR system in a healthcare facility

## **ELECTIVE MODULES**

**1. Advanced Pharmacology:** Deep dive into the mechanisms of action, side effects, and interactions of various drugs.

**2. Clinical Research Methods:** Learn about designing and conducting clinical trials, data analysis, and ethical considerations.

**3. Health Informatics:** Study the use of information technology in healthcare, including electronic health records and data management.

**4. Global Health:** Explore health issues and solutions in a global context, including international health policies and practices

### **Websites:**

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>