

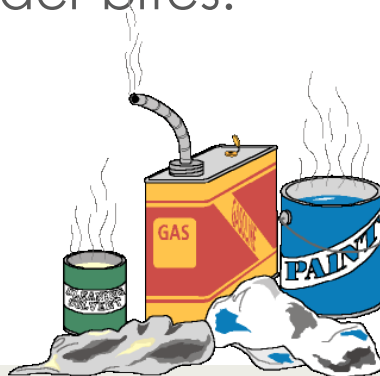
Poisoning & Drug overdose





Introduction

- ❑ A poison is any product or substance that can harm someone if it is used in the wrong way, by the wrong person, or in the wrong amount.
- ❑ Examples of possible poisons include some household products, chemicals at work or in the environment, drugs (prescription, over-the-counter, herbal, or illegal) snake bites, and spider bites.





Introduction

- In 2004 an estimated 346,000 people died worldwide from unintentional poisoning. Of these deaths, 91% occurred in low- and middle-income countries.





- Nearly a million people die each year as a result of suicide, and chemicals account for a significant number of these deaths.
- For example, it is estimated that deliberate ingestion of pesticides causes 370,000 deaths each year.



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- about 5 million snake-bites occur each year, resulting in up to 2.5 million envenomings, at least 100,000 deaths and around three times as many amputations and other permanent disabilities.



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Organization**



Poisoning !!!





POISON MANAGEMENT SYSTEMS

- ❑ **Evaluation and assessment** of any exposure to a poison require gathering of appropriate information to gauge the potential health risk to the victim.
- ❑ The victim himself may be able to volunteer such information, or else it may have to be obtained from close friends and relatives.
- ❑ Very often the evaluation has to be done over the telephone.



Evaluation and assessment

- A) *Who was exposed?* Age, sex and weight are important.
- B) *What substances were involved in the exposure?* As far as possible, the exact name of the product must be obtained.
- c) *How much of the potentially toxic agent was involved in the exposure?*
- D) *Time of exposure* is important to determine the urgency of the situation.
- E) Does the victim have any *previous history of other medical problems?*
- F) *The condition of the victim* at the time of call will help in determining the type and rapidity of medical response that is required.
- G) *Any initial measures already taken* will need to be known and documented.



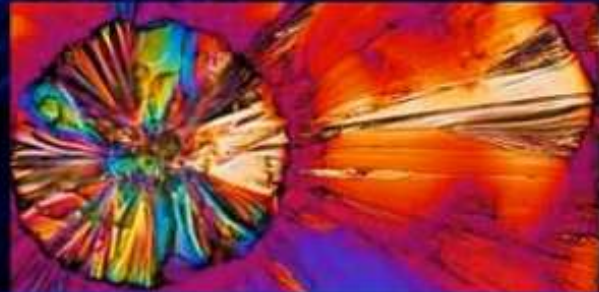
Emergency Patient Management and After-Care

- The care given to victims of poisoning is usually determined by the symptomatology produced.
- Generally speaking, aggressive treatment measures are not necessary if the patient is asymptomatic.



FIFTH EDITION

POISONING & DRUG OVERDOSE



- Covers all common poisons and drugs
- Updated information on industrial chemicals including latest regulatory exposure limits
- New section and table on drugs and chemicals in pregnancy

KENT R. OLSON

Mc
Graw
Hill

LANGE



- Consists of 4 sections and index.



Poisoning & Drug Overdose

Section I: Comprehensive Evaluation and Treatment

- ▣ Emergency Evaluation and Treatment
- ▣ Special Considerations in Pediatric Patients
- ▣ Special Considerations in the Evaluation of Drug-Facilitated Assault
- ▣ Evaluation and Treatment Resources



AIRWAY (p 1)

- Check gag/cough reflex
- Position patient
- Clear/suction airway

Endotracheal intubation? (p 4)

BREATHING (p 5)

- Obtain arterial blood gases
- Assist with bag/mask device
- Give supplemental oxygen

Ventilatory failure? (p 5)

Hypoxia? (p 6)

Bronchospasm? (p 7)

CIRCULATION (p 8)

- Measure blood pressure/pulse
- Monitor electrocardiogram
- Start 1–2 IV lines
- Obtain routine bloodwork

Bradycardia/AV block? (p 8)

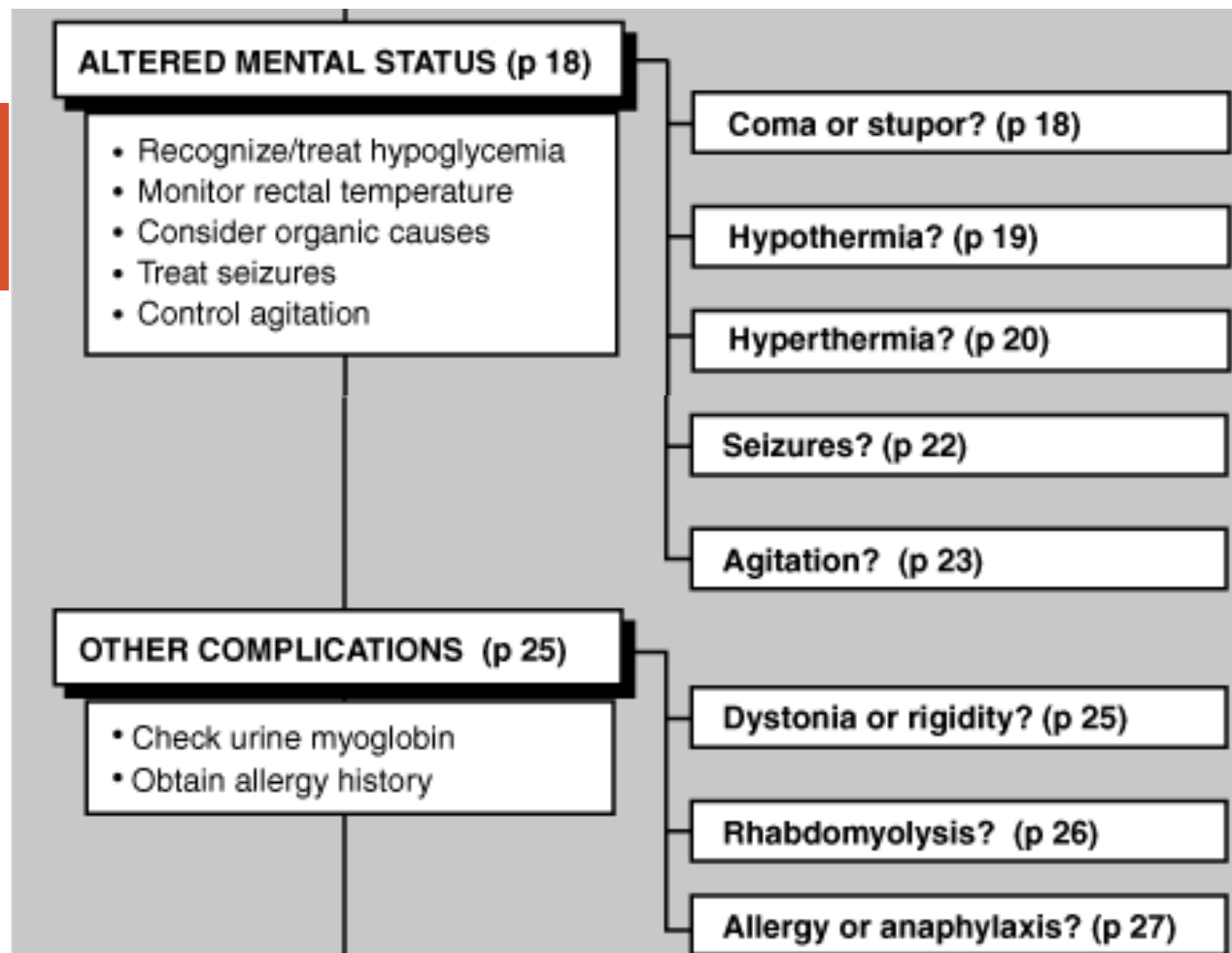
Prolonged QRS interval? (p 9)

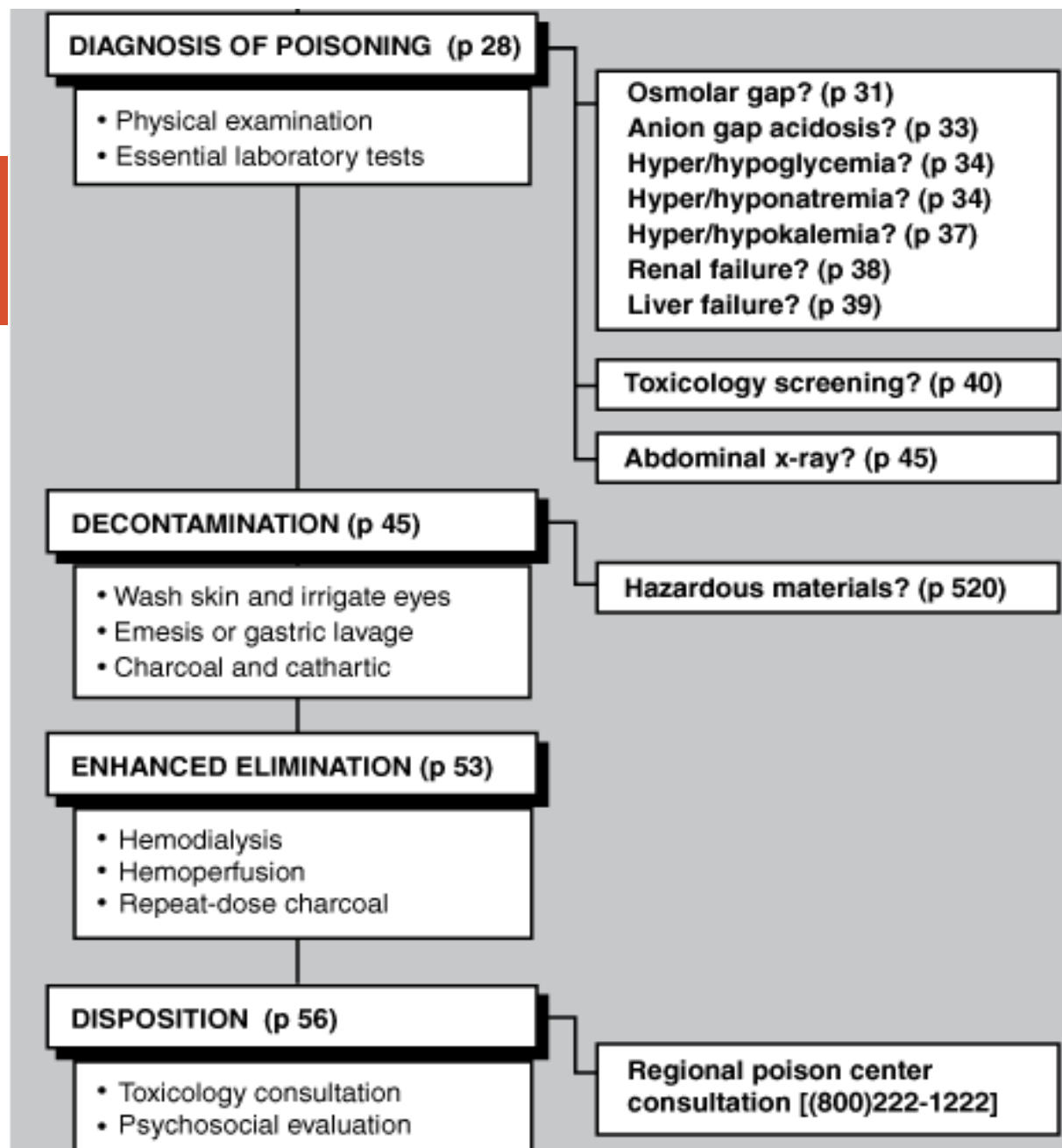
Tachycardia? (p 12)

Ventricular arrhythmias? (p 13)

Hypotension? (p 15)

Severe hypertension? (p 17)







Poisoning & Drug Overdose

Section II: Specific Poisons and Drugs: Diagnosis and Treatment



Section III: Therapeutic Drugs and Antidotes

- ❑ Provides detailed descriptions of antidotes and other therapeutic agents used in the management of a poisoned patient.
- ❑ Pharmacologic effects.
- ❑ Clinical indications, adverse effects and contraindications.
- ❑ Use in pregnancy, dosage, available formulations.
- ❑ Recommended minimum stocking levels for the hospital pharmacy.



Section IV: Environmental and Occupational Toxicology

- ▣ Emergency Medical Response to Hazardous Materials Incidents
- ▣ Evaluation of the Patient with Occupational Chemical Exposure
- ▣ The Toxic Hazards of Industrial and Occupational Chemicals
- ▣ Environmental and Occupational Toxicology References