mother so as to mature the lungs of the baby and reduce neonatal respiratory distress, and to optimise logistics such as making sure the baby is born in a facility with neonatal intensive care.

- Cyclo-oxygenase inhibitors (e.g. indometacin) inhibit labour, but their use could cause problems in the baby, including renal dysfunction and delayed closure of the ductus arteriosus, both of which are influenced by endogenous prostaglandins.
- ➤ An oxytocin receptor antagonist, atosiban, provides an alternative to a β2-adrenoceptor agonist. It is given as an intravenous bolus followed by an intravenous infusion for not more than 48 hours. Adverse effects include symptoms of vasodilation, nausea, vomiting, and hyperglycaemia.

## 6. Bioassay

Bioassay may be defined as the determination of the concentration of a biologically active substance, of physical, chemical or biological origin, by using a biological indicator with reference to standard. Bioassay is comparative in nature.

Bioassay is the determination or estimation of the amount of biological activity in a unit quantity of the preparation. It is a process of determining relative potency of a substance or active principle of a substance by comparing its biological activity with that of a reference standard. Bioassay includes both quantitative assays of drugs as well as the application of qualitative biological tests. The purpose of bioassay is to determine the potency of a drug and hence it serves as the quantitative part of any screening procedure. Other purpose of bioassay is to standardize the preparation so that each contains uniform specified pharmacological activity.

#### **Biological indicator:**

The biological activity of a substance can be studied by using different experimental animals, isolated tissues of the experimental animals, immune cells or microorganisms are termed as biological indicator.

#### Biological standardization:

Comparison and adjustment of the strength of the unknown sample with that of the standard under rigidity controlled conditions is termed as bio-standardization. It is a process of increasing or decreasing the potency of a biologically active substance to match it with the biological activity of a reference standard. Matching of material of unknown potency with an

# **Pharmacology Experiments Manual Bio Assay Methods**

**Rosina Ehmann** 

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