GLYCOGEN STORAGE DISEASES

- The metabolic defects
 concerned with the
 glycogen synthesis and
 degradation are
 collectively referred to as
 glycogen storage diseases.
- These disorders are characterized by deposition of normal or abnormal type of glycogen in one or more tissues.

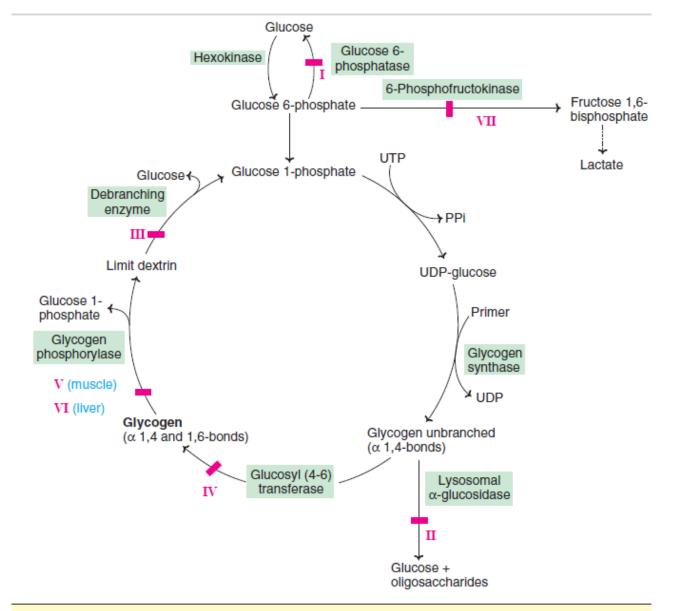


Fig. 13.19: Summary of glycogen metabolism with glycogen storage diseases (Red blocks indicate storage disease, I—von Gierke's disease; III—Pompe's disease; III—Cori's disease; IV—Anderson's disease; V—Mc Ardle's disease; VI—Her's disease; VII—Tarui's disease).

TABLE 13.2 Glycogen storage diseases - biochemical lesions and characteristic features

| renal cells, cemia, lactic thritis. most all the |
|--|
| most all the |
| ed liver and oth occurs at |
| er enlarged; compared to |
| w branches iver function. |
| ilable during us exercise; and pyruvate s may get |
| glucose; mild |
| lactate not |
| |

Rare glycogen disorders VIII, IX, X and XI have been identified. They are due to defects in the enzymes concerned with activating and deactivating liver phosphorylase.