**Anti-Trematodal Drugs**

* **Fasciolosis** is the most common and most economically important trematode disease of domestic animals.
* Trematode diseases include:
  + **Fasciolosis** – infection with **Fasciola hepatica** (liver  flukes)
  + Infections caused by **rumen flukes**  (**Paramphistomum**)
  + **Lung Flukes** in dogs and cats (**Paragonimus**)
* Fasciolicidal

**Halogenated Hydrocarbons**

* + - carbon tetrachloride
    - hexachloroethane
    - tetracholorodifluoroethane
    - hexacholroparaxylene

**Bisphenolic Compounds**

* Hexachlorophene
  + - bithionol sulphoxide
    - bromsalans
    - oxyclozanide
    - Clioxanide

**Nitrophenolic Compounds**

* Disophenol
* Niclofolan
* Nitroxynil

**Newer Salicylanilides**

* Closantel
* Brotianide

**Sulphonamides**

* Clorsulon

**Benzimidazoles**

* Albendazole
* triclabendazole
* **Clorsulon** and **albendazole** are the only drugs approved by  FDA for treatment of ***F. hepatica*** infections
* **Clorsulon** is approved for **beef** and **dairy** cattle, **regardless  of lactation status.**
* **Albendazole** is approved for **beef** and **nonlactating** **dairy** cattle

**Clorsulon (Curatrem®)**

* Sheep (drench) and cattle (SC) (in combination with ivermectin).
* It has 100% efficacy after oral administration of **3.75mg/Kg** against adult  ***F. hepatica*** (14-16 weeks old) in cattle and sheep
* Poor efficacy against the rumen fluke, Paramphistomum
* Clorsulon has a short half-life in tissues and milk
* Wide safety margin ☺
* WP: is 72 hours (6 milking) for milk and 8 days for beef.

**Albendazole (Valbazen®)**

* Effective against adult liver flukes
* For immature organisms, higher dosage is needed
* Intraruminal slow-release capsule (Proftril-Captec®) has been developed to protect sheep against establishment of infection with F. hepatica and Dicrcoelium dentriticum.

**Drugs with principal activity against immature flukes**

**Diamphenethide (Coriban®)**

* Great activity against immature ***F. hepatica***