Lecture No.4 PARASITOLOGY DR.Raad H.H.

**General characters of Nematoda five phyla (ref.** Urquhart GM, Annour J, Duncan JL, Dunn AM, Jennings. FW. 1996.Veterinary Parasitology 2 edition 307 pages. Wiley-Blackwell.**)**

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| Order | Strogylida | Ascaridida | Spirurida | Enoplida | Rhabditida |
| General form | Majority small size worms | Majority elongate worms | Different size worms | very small size whip or hairy worms  | smallest size worms |
| Mouthshape  | With Small buccal cavity  | With 3 lips  | With 2lateral pseudolabia&6 lips  | - | With Small buccal cavity  |
| Esophagus form | Simple club | Simple club | cylindrical | cellular | Rhabtidi form |
| Male reproductive system | With copulatory bursa with 2 spicules | No cpoulatory bursa ;but have posterior bended end with papillae | No cpoulatory bursa ;but have posterior coiled end with 2 unequal spicules | No cpoulatory bursa ;but have posterior end with 1 spicule | No cpoulatory bursa ;but have posterior end with 2 small equal spicules |
| Egg shape  | Oval with divided zygote fetus (4-32 cells)Except eggs of lung worms with L 1 | with undivided zygote fetus | eggs of worms with L 1 | with undivided emryo | eggs of worms with L 1 |
| Life cycle  | Direct (strongylidae) or indirect (Proto strongylidae) | Direct | Indirect  | Direct (Trichuriidae) or indirect (Capillaridae) | Direct |
| Infective stage | -Swallow L3-Penetrate L3-Swallow intermediate host with L3 | Swallow egg with L2 (Ascaris) or Swallow egg with L3 (Oxyuris) | Swallow insect intermediate host with L3 or injecting L3by insect intermediate host | Eat meat with L1 or Swallow egg with L1Swallow earth worm with L3 | Penetrate skin with L3 |