**Scheme of Lectures:**

- **Helminths**
  - Total of Eight Lectures:
    - Nematodes
    - Platyhelminthes
    - Cestodes: 2 Lectures
    - Hematodes: 2 Lectures
    - Intestinal Hematodes
    - Tissue Hematodes
    - Hematodes with disease causing larvae

- **Taenias**
  - Long segmented, tape like, flattened.
  - Variable size, few mm to several meters.
  - Adult in GI tract of man / animal.

**Taenias — At a Glance**

- Head provided with suckers
- Hermaphroditic
- No body cavity
- No alimentary canal
- Excretory & nervous systems present
- Highly developed reproductive system

**Taenias — At a Glance**

- Produce eggs which are morphologically similar.
- Thick, brown, radially striated shell.
- Embryonated with six-hooked ancerophore when passed.
DEPARTMENT OF PATHOLOGY

PARASITOLOGY

By
Dr. Syed Muhammad Ali
Dept. of Pathology
Rawalpindi Medical College

Rules:
- During the lecture, you can
  - Eat
  - Not the person sitting next to you
  - Drink
  - Only keepable item
  - Talk
  - Only with me!

Scheme of Lectures:
- Helminths
  - Total of Eight Lectures:
    - Flatworms
    - Cestodes
    - Nematodes
    - Trematodes
  - Tissue Nematodes
  - Tissue Helminthes
  - Helminthes with disease causing larvae

How Will We Proceed:
- The Organism
- Introduction to Organism
- Life Cycle
- Clinical Features
- Diagnosis
- Summary
- Treatment
- Scenario/Clinical Correlation
- Challenge [ rename!]  
  - So pay attention... 😊

Cestodes
Lecture 1 of 2
Taenias – Treatment

<table>
<thead>
<tr>
<th>INFECTION</th>
<th>T. solium</th>
<th>T. saginata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prasquantel</td>
<td>May or may not work</td>
<td>Yes</td>
</tr>
<tr>
<td>Prasquantel</td>
<td>Yes</td>
<td>Not required</td>
</tr>
<tr>
<td>Albendazole</td>
<td>Yes</td>
<td>Not required</td>
</tr>
<tr>
<td>Niclosamide</td>
<td>At 2nd line drug</td>
<td>Not required</td>
</tr>
</tbody>
</table>

Clinical Scenario

- A 45 yrs. old Christian farmer, well known in the local community for his regular barbecue parties on his farm, presented in A&E with H/O seizures. There is no recent history of drug/alcohol abuse. Ophthalmic examination revealed papilledema. The Labs showed normal LFTs & RFTs however there was a marked Eosinophilia present.

What is your diagnosis?

Challenge

- Why were the eggs mentioned as Ehrlichianated ???

Taenias – At a Glance

- T. solium eggs which are microscopic and not visible
- T. saginata eggs are visible under 500x magnification
- Both T. solium and T. saginata eggs are passed in stools

NEXT LECTURE:

- Heliostriphs
- Platyhelminthes
- Cestodes
  - Echinococcus granulosus - Dog tape worm
  - Diphyllobothrium latum - Fish tape worm

Give your valuable feedback with "FILES"

https://goo.gl/TqGVWv
Taenias - Morphology

- Scolices (Head)
- Suckers
- Hooks etc.
- Proglottides (Segment)
- Strobila or Body
  (Proglottid \(\rightarrow\) Proglottid \(\rightarrow\) Proglottid \(\rightarrow\) Proglottid)