EPILEPSY is Dangerous
DO YOU KNOW

EPILEPSY IN HUMANS Could be due to

1 Tapeworm cyst infested Pork

2 Improperly washed Green Vegetables

*In India anywhere between 8.7% - 50% of patients suffering from epilepsy originates from Neurocysticercosis (NCC)

*EPIDEMIOLOGY OF TAENIA SOLIUM TAENIASIS/CYSTICERCOSIS IN INDIA AND NEPAL - Vedantam Rajshekhar (Department of Neurological Sciences, Christian Medical College Hospital, Vellore, India) - Vol 35 (Suppl 1) 2004
PORCINE CYSTICERCOSIS

A serious Public Health Concern.
A dreaded Zoonotic Disease

What is Porcine Cysticercosis?

- Cysticercosis is a parasitic disease caused by ingesting the eggs of the pork tapeworm, Taenia solium.
- It is a zoonotic parasite involving pigs as intermediate host.
- Humans are infected by ingesting raw or undercooked pork, Cysticercosis occurs after the ingestion of Taenia solium eggs.
- Cysts that develop in the central nervous system can cause a preventable form of epilepsy called Neurocysticercosis.

*How it is transmitted?

Humans acquire T. solium infection by ingesting raw or undercooked pig/dog meat with cysticerci.
T. solium adult worm lodges in human intestine, discharges proglottids full of eggs into environment via soil contamination by open defecation.
Pigs by corpophagia and humans by contaminated food/water or autoinfection acquire Cysticerci develop in pig muscles.
Cysticerci can lodge in human tissues such as brain, eyes.
Contaminated food ingested by humans.

INTRODUCING…

WORLD’S FIRST VACCINE AGAINST PORCINE CYSTICERCOSIS

Cysvax™
How to break the Cyst cycle?

1. Pig pen hygiene
2. Stop open defecation
3. Wash vegetables properly before consuming in raw form

and most importantly...

4. Vaccination is the answer to prevent Porcine Cysticercosis

5. Consumers to choose

Cysvax Vaccinated Pork
Description: Cysvax is a biotechnologically derived immunological veterinary vaccine. The vaccine antigen is the Oncosphere protein encoded by a specific gene (TSOL 18 gene) of Taenia Solium. This antigen is produced by Pichia Pastoris expression system and formulated with oil adjuvant and recognized to be highly immunogenic.

Composition: Each dose 1 ml contains Taenia Solium oncosphere antigen (TSOL 18) greater or equal to 150 micro gram, Thiomersal (as preservative) less than or equal to 0.02 % w/v. Mineral oil (as adjuvant) and phosphate buffer diluent q.s.

Potency: Greater or equal to 500 Anti TSOL 18 IgG titre in 5 animals out of 6 by Elisa.

Indications: Cysvax vaccine is indicated for active immunization of pigs against porcine cysticercosis.

Target species: Pigs

Dosage and administration:
Pigs: 1 ml by deep Intramuscular injection behind the ear area. A sterile needle and syringe should be used for each vaccination.

Vaccination Regimen:
Primary vaccination: Pigs approximately 2 months of age and above
Booster dose: 3-4 weeks after primary vaccination
Re-vaccination: 6 Months

Immunity: Develops by 2 weeks post booster dose

Contraindications: Do not vaccinate unhealthy animals i.e. animals suffering from diseases, malnutrition, allergic conditions and extreme stress etc.

Precautions: In rare cases, hypersensitivity may occur, immediate treatment with adrenaline & antihistaminic is advocated.
Injection of mineral oil into humans can produce Generally corticosteroid therapy should be avoided 1-2 weeks before and after the vaccination for developing good immune response.

Side Effects: Generally no significant side effects are noticed, however in some animals temporary pyrexia, lethargy for 1-2 days and local injection site reactions for up to 7 days may be observed after vaccination.

Effects with other vaccines: No information is available on the compatibility of this vaccine with any other vaccines. Therefore the safety and efficacy of this product when used with other vaccines has not been demonstrated.

Withdrawal Period: Zero days.

Overdose: Administration of a 5-fold overdose of vaccine, no adverse reactions were observed under farm conditions other than those described under side effects.

Storage & Transport: The vaccine should be stored and transported between 2°C and 8°C DO NOT FREEZE. SHAKE WELL BEFORE USE. KEEP OUT OF REACH OF CHILDREN.

Shelf Life: 24 months from the date of manufacture when stored at recommended storage conditions.

Disposal of Used Containers: The empty containers of the vaccine, used syringes and needles should be disposed of properly and carefully according to local regulatory requirements.

Presentation: Cysvax is available as 1 mL, 5 mL, 10 mL & 20 mL vial