

Guide pratique de contrôle de la cysticercose porcine au Cameroun

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Chargé de cours

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Cycle du parasite

Le complexe taeniose/cysticercose

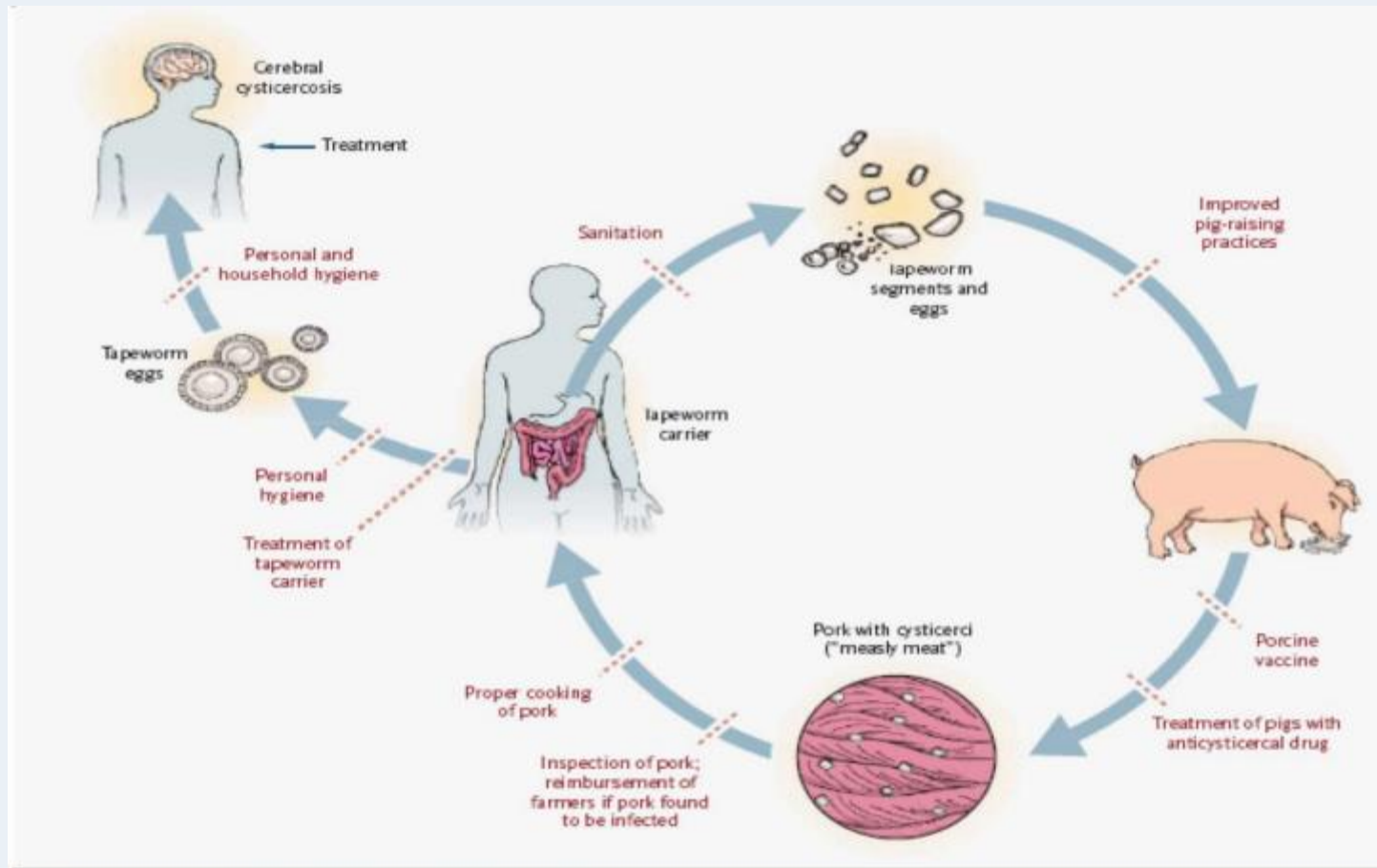


Figure. Taeniasis and Cysticercosis — Life Cycle and Interventions.

The dashed lines represent the points at which a given intervention can interrupt the cycle.

Cycle du parasite

Porcine cysticercose porcine



Moyens de contrôle classique

- Education/sensibilisation
- Traitement de masse (déparasitage) de la population humaine. Il existe deux outils très efficaces: le Praziquantel et le niclosamide.
- Mesures d'hygiène (utilisation des latrines)
- Restriction de divagation des porcs
- Inspection au niveau des points d'abattage

Nouvelles méthodes de contrôle de la cysticercose porcine

- Model Péruvien
- Model pilot Camerounais
- Stratégie d'intervention minimale

Model de contrôle de la cysticercose à *T. solium* au Pérou

- Zonage et traitement de masse de la population humaine et des porcs: Utilisation du Praziquantel chez humains et OFZ chez les porcs;
- Vaccination de tous les porcs.

ORIGINAL ARTICLE

Elimination of *Taenia solium* Transmission in Northern Peru

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ABSTRACT

BACKGROUND

Taeniasis and cysticercosis are major causes of seizures and epilepsy. Infection by the causative parasite *Taenia solium* requires transmission between humans and pigs. The disease is considered to be eradicable, but data on attempts at regional elimination are lacking. We conducted a three-phase control program in Tumbes, Peru, to determine whether regional elimination would be feasible.

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*Deceased.

Model pilot expérimental au Cameroun

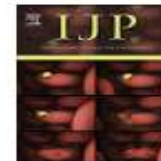
International Journal for Parasitology 40 (2010) 515–519



Contents lists available at ScienceDirect

International Journal for Parasitology

journal homepage: www.elsevier.com/locate/ijpara



Rapid Communication

Elimination of *Taenia solium* transmission to pigs in a field trial of the TSOL18 vaccine in Cameroon

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ARTICLE INFO

Article history:

Received 8 December 2009

Received in revised form 25 January 2010

Accepted 27 January 2010

Keywords:

Taenia solium

Vaccination

Pigs

TSOL18

Field trial

Cameroon

ABSTRACT

A pilot field trial of the TSOL18 vaccine was undertaken in Cameroon. Two hundred and forty, 2–3 month-old piglets were distributed to 114 individual households in pairs. Vaccinated animals received three immunisations with 200 µg TSOL18 plus 5 mg Quil A and 30 mg/kg oxfendazole at the time of the second immunisation. Necropsies were undertaken when the pigs were approximately 12 months of age. Viable *Taenia solium* cysticerci were identified in 20 control pigs (prevalence 19.6%); no cysticerci were found in any of the vaccinated animals ($P < 0.0001$). Combined application of TSOL18 vaccination and a single oxfendazole treatment in pigs may be a relatively simple and sustainable procedure that has the potential to control *T. solium* transmission in endemic areas and, indirectly, reduce the number of new cases of neurocysticercosis in humans.

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Model théorique: Stratégie d'intervention minimale de contrôle

Trends in Parasitology

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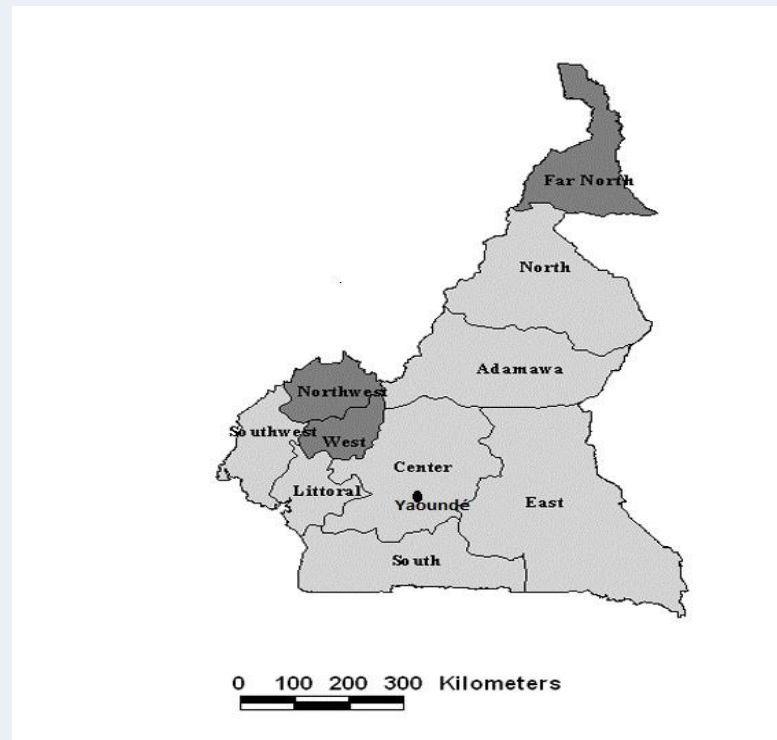
Opinion

Designing a Minimal Intervention Strategy to Control *Taenia solium*

Marshall W. Lightowlers^{1,*} and Meritxell Donadeu^{1,2}

Projet de guide pratique: La stratégie minimale d'intervention au Cameroun

1-Identification des zones à risque par un diagnostic (sérologie et parasitologie)





Région	Prévalence (%)				Références
	Inspection de la langue	Inspection des carcasses	Ag-ELISA	Ab-ELISA	
Ext. North	20.5	15.7	39.8	-	Assana et al., 2001
	-	-	24.6	32.2	Assana et al., 2010a
Nord-Oest	4.4	-	27.7	-	Shey-Njila et al., 2003
	3.6	-	7.6	-	Ngwing et al. (2012)
Nord	-	12.3	-	-	Awa et al., 1999
	-	8.85	-	25.48	Djonmaila, 2016
Ouest	24.6	19.9		38	Zoli et al., 1987
	6.3	-	11.0	21.8	Pouedet et al., 2002
	-	2.3	11.2	21.8	Nguekam, 1998
Adamaoua	7.8	-	22.4	-	Zoli et al., 2003

La stratégie minimale d'intervention au Cameroun

- 2-Vaccination et traitement des porcs:
(CYSVAX + OFZ)

Exemple de programme pratique (**Assana et.**, 2013. Vet. Parasitol.195, 14-23).)

Season	Interventions
End of rainy season	Vaccination of all pigs (first dose of CYSVAX)
Beginning of the dry season	Vaccination of previously vaccinated pigs (2 nd dose of CYSVAX + Oxfendazole treatment
Dry season	-Vaccination of unvaccinated piglets born in rainy season (1 st dose) -Vaccination of previously vaccinated pigs born in rainy season (2 nd dose) + treatment with Oxfendazole

Perspectives

- Projet de guide pratique de contrôle de la cysticercose au Cameroun (2018-2019)
- Introduction du CYSVAX (Indian Immunological Ltd) et OFZ (MCI Santé Animale)
- (MINEPIA, CAPHAVET ...)

Merci pour votre attention

