

Final Report PT- Ec 1/2016

PT “Detection of *Echinococcus* sp. adult worms in the intestinal mucosa of the definitive host”

Design

Purpose	Correctly identify the presence of adult worms of <i>Echinococcus</i> sp. in a matrix made by intestinal mucosa.	
Scheme type	Single	
Participants	Public and private, European laboratories	
N. of participants	Depending on request	
Method	Not regulated	
Test method	Sedimentation and counting technique (SCT)	
PT items	Matrix	intestinal mucosa
	Item	adult worms of <i>Echinococcus</i> spp.
	N. of samples	3 for each participant
	Distribution	Immediate shipment after preparation
Subcontracted activities	NA	
Results evaluation	Qualitative	

Implementation

N. of participants	25	PT items	intestinal mucosa (ml)/ sample	6
Public laboratories	25		Ethanol 70% (ml)	6
Private laboratories	0		PT panel composition	3 samples (0,0,20)
NLR	25		Shipping	TNT Express
Shipping dates	14/03/16			

PT Provider
 Unit of Gastro-enteric and Tissue Parasitic Diseases
 Istituto Superiore di Sanità, Rome, Italy
 Viale Regina Elena, 299 – 00161 Rome, Italy

PT person in charge: Dr. Adriano Casulli
 e-mail: adriano.casulli@iss.it; tel: +39 06 4990 2670



PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Signatory of EA MLA for the accreditation schemes QMS, EMS, PRD, PRS, INSP, GHG, TL and CL, of IAF MLA for the accreditation schemes QMS, EMS, ISMS, FSMS and PRD, and of ILAC MRA for the accreditation schemes TL, ML, CL and INSP



Results

The final evaluation is only based on qualitative evaluation and is expressed as “positive” if the results of all samples are correct or “negative” if at least one result is incorrect.

LAB CODE	SAMPLE 1 (N=0)	SAMPLE 2 (N=0)	SAMPLE 3 (N=20)	FINAL EVALUATION
E1	Correct	Correct	Correct	Positive
E2	Correct	Correct	Correct	Positive
E3	Correct	Correct	Correct	Positive
E4	Correct	Correct	Correct	Positive
E5	Correct	Correct	Correct	Positive
E6	Correct	Correct	Correct	Positive
E7	Correct	Correct	Correct	Positive
E8	Correct	Correct	Correct	Positive
E9	Correct	Correct	Correct	Positive
E10	Correct	Correct	Correct	Positive
E11	Correct	Correct	Correct	Positive
E12	Correct	Incorrect	Correct	Negative
E14	Correct	Correct	Correct	Positive
E15	Correct	Correct	Correct	Positive
E17	Correct	Correct	Correct	Positive
E18	Correct	Incorrect	Correct	Negative
E19	Correct	Correct	Correct	Positive
E21	Correct	Correct	Correct	Positive
E22	Correct	Correct	Correct	Positive
E23	Correct	Correct	Correct	Positive
E24	Correct	Correct	Correct	Positive
E25	Correct	Correct	Correct	Positive
E26	Correct	Correct	Correct	Positive
E27	Correct	Correct	Correct	Positive
E28	Correct	Correct	Correct	Positive

PT Provider
Unit of Gastro-enteric and Tissue Parasitic Diseases
Istituto Superiore di Sanità, Rome, Italy

Viale Regina Elena, 299 – 00161 Rome, Italy

PT person in charge: Dr. Adriano Casulli
e-mail: adriano.casulli@iss.it; tel: +39 06 4990 2670



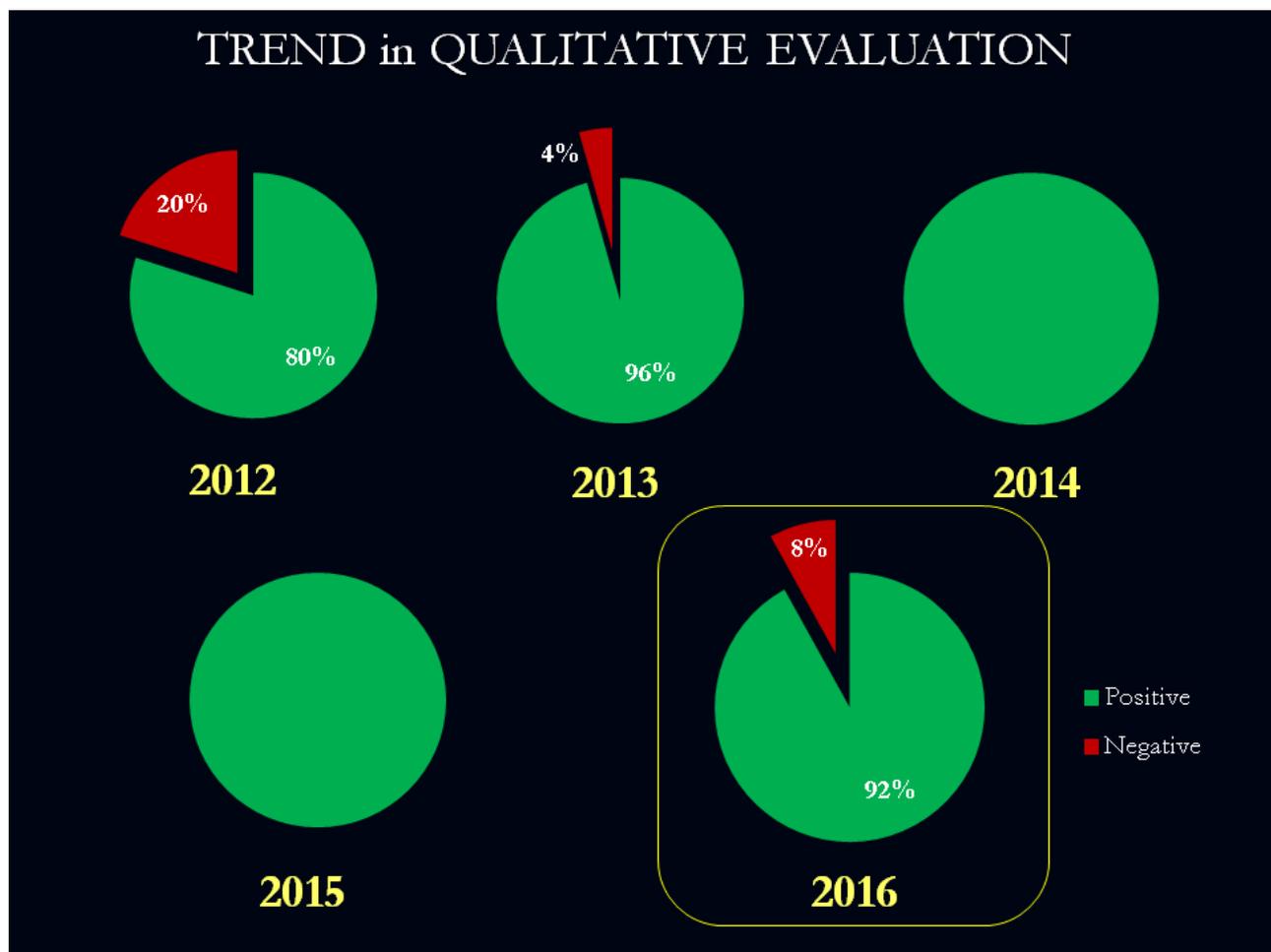
PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Signatory of EA MLA for the accreditation schemes QMS, EMS, PRD, PRS, INSP, GHG, TL and CL, of IAF MLA for the accreditation schemes QMS, EMS, ISMS, FSMS and PRD, and of ILAC MRA for the accreditation schemes TL, ML, CL and INSP

Summary of results:

Number of participant laboratories	25
Number of participants that passed the PT	23
Number of participants that failed the PT	2
Number of participants that repeated the PT	2
Number of participants that successfully repeated the PT	2



PT Provider
 Unit of Gastro-enteric and Tissue Parasitic Diseases
 Istituto Superiore di Sanità, Rome, Italy
 Viale Regina Elena, 299 – 00161 Rome, Italy

PT person in charge: Dr. Adriano Casulli
 e-mail: adriano.casulli@iss.it; tel: +39 06 4990 2670



PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Signatory of EA MLA for the accreditation schemes QMS, EMS, PRD, PRS, INSP, GHG, TL and CL, of IAF MLA for the accreditation schemes QMS, EMS, ISMS, FSMS and PRD, and of ILAC MRA for the accreditation schemes TL, ML, CL and INSP



Comments:

The experience derived from the PT carried out in 2016, showed that the personnel of NRLs are skill to detect this parasite in a qualitative test. The comparison of the results during last 4 years demonstrate that the detection capabilities of the personnel is increasing over the time. The 2016 results cannot be compared with those of the previous years, since only one positive sample (instead of 2) was introduced in the PT panel.

In accordance to the Commission request, corrective actions were planned for the two laboratories, which failed the PT (Labs E12/E18). As corrective action both labs agree to analyse a new set of samples.

This corrective action was considered as an External quality assessment (EQA) scheme, therefore only an Individual Report was provided to each participant. The evaluation was only qualitative and both labs correctly identified all samples and passed the EQA.

The Director

Dr. E. Pozio

Date 19.05.2016

Notes:

1. To guarantee confidentiality, participant laboratories are identified by alphanumeric codes. PT participant identity is kept confidential and bound by professional secrecy. If PT results have to be provided directly to a competent authority, the organizer shall send a written notice to inform the involved participants.
2. The organizer designates a qualified company for the transport and delivery of PT items.
3. Each participating laboratory receives a PT panel according to the PT scheme. Each PT item consists of intestinal mucosa, fixed in 70% ethanol, spiked or not with *Echinococcus* spp. adult worms. The homogeneity of PT items is ensured by an accurate control of the number of worms spiked into each sample (item), made by two operators using a stereo microscope. PT items are stable for 21 days from the date of preparation (corresponding to the shipping date), provided that they are maintained in suitable conditions.
4. At the beginning of each year, the organizer draws up a PT program and makes it known by publishing it on the EURLP website (for national, international, public and private laboratories) or by email (NRLs).
5. The final report issue of each PT round shows the PT program implementation.

End of the report

PT Provider
Unit of Gastro-enteric and Tissue Parasitic Diseases
Istituto Superiore di Sanità, Rome, Italy

Viale Regina Elena, 299 – 00161 Rome, Italy

PT person in charge: Dr. Adriano Casulli
e-mail: adriano.casulli@iss.it; tel: +39 06 4990 2670



PTP N° 0005

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Signatory of EA MLA for the accreditation schemes QMS, EMS, PRD, PRS, INSP, GHG, TL and CL, of IAF MLA for the accreditation schemes QMS, EMS, ISMS, FSMS and PRD, and of ILAC MRA for the accreditation schemes TL, ML, CL and INSP