

Practice Number: 5200296

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| Instructions for  Participants | **04 Aug 2021**  **02-2021** | |
| These are the clinical scenarios and response form for the NHLS Parasitology Stool PT Scheme. Detailed instructions can be found in the new Instruction Booklet for all NHLS Proficiency Testing Schemes. | | **NHLS Proficiency Testing Scheme – Parasitology Stool** |



# **NHLS Stool Parasites PT Scheme 0221**

**SURVEY RESPONSE FORM 0218**

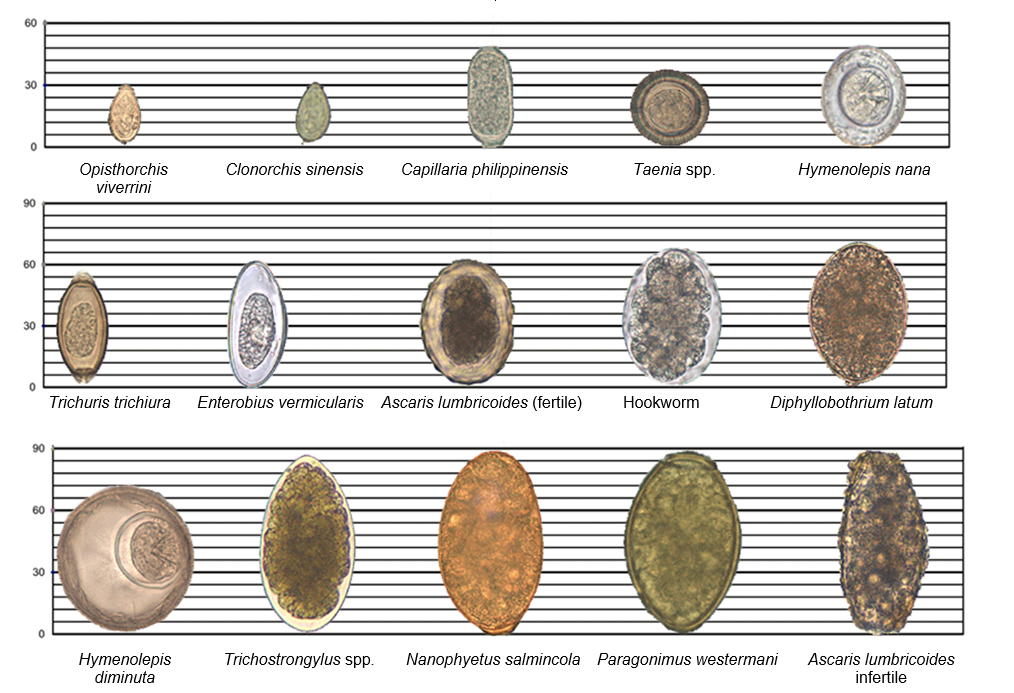
**PTS LAB NO: \_\_\_\_\_\_\_\_ LABORATORY NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

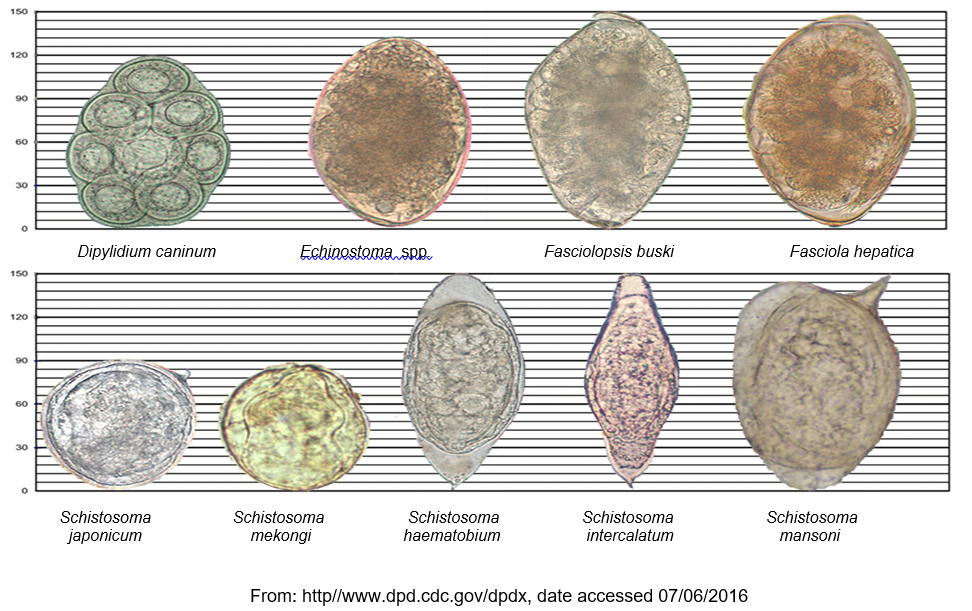
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| **CHALLENGE:** | **ANSWER CODE/S:** | **CLINICAL HISTORY:** | **INSTRUCTIONS:** |
| **PS06/21**  Stool/urine concentrate |  | Patient complaining of abdominal pain or tenderness | Vortex/mix the specimen well. Make a few wet preparations and examine the slide for parasites using 10x and 40x objectives. |
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| **PS07/21**  Stool/urine concentrate |  | Patient complaining of gastritis, indigestion, dyspepsia. | Vortex/mix the specimen well. Make a few wet preparations and examine the slide for parasites using 10x and 40x objectives. |
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| **PS08/21**  Stool/urine concentrate |  | Patient complaining with loose stools mild abdominal cramps. | Vortex/mix the specimen well. Make a few wet preparations and examine the slide for parasites using 10x and 40x objectives. |
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| **PS09/21**  Stool/urine concentrate |  | Patient complaining of abdominal pain and lack of appetite | Vortex/mix the specimen well. Make a few wet preparations and examine the slide for parasites using 10x and 40x objectives. |
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| **PS010/21**  Stool smear |  | Patient complaining of diarrhea, vomiting and dehydration | You are provided with a fixed stool smear; stain with an appropriate stain and examine the slide for parasites using the appropriate objective. Please **do not** return your slide. |
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| Stain used: |

**NHLS PARASITOLOGY PTS ANSWER CODES**

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| --- | --- | --- | --- |
| 00 | Noparasite(s) seen | 28 | *Schistosoma japonicum/mekongi* eggs |
| 01 | *Ascaris lumbricoides* eggs | 29 | *Strongyloides stercoralis* larvae |
| 02 | *Balantidium coli* | 30 | *Taenia* species eggs |
| 03 | *Blastocystis hominis* | 31 | *Trichostrongylus* species eggs |
| 04 | *Chilomastix mesnili* | 32 | *Trichuris trichiura* eggs |
| 05 | *Cryptosporidium* species oocysts | 33 | Other (specify parasite & stage) |
| 06 | *Cyclospora cayetanensis* oocysts | 34 | *Babesia* species |
| 07 | *Dientamoeba fragilis* | 35 | *Leishmania* species |
| 08 | *Diphyllobothrium* species eggs | 36 | Microfilaria (e) observed |
| 09 | *Endolimax nana* | 37 | *Loa loa* microfilariae |
| 10 | *Entamoeba coli* | 38 | *Mansonella perstans* microfilariae |
| 11 | *Entamoeba histolytica/E. Dispar* | 39 | *Onchocerca volvulus* microfilariae |
| 12 | *Entamoeba hartmanni* | 40 | *Wuchereria bancrofti* microfilariae |
| 13 | *Entamoeba polecki* | 41 | *Plasmodium* species |
| 14 | *Enterobius vermicularis* eggs | 42 | *Plasmodium* species, not *P. falciparum* |
| 15 | *Fasciola hepatica/ Fasciolopsis buski* eggs | 43 | Relapsing malaria species |
| 16 | *Giardia lamblia* | 44 | *Plasmodium falciparum* |
| 17 | *Clonorchis/Opisthorchis /Heterophyes/Metagonimus* eggs | 45 | *Plasmodium malariae* |
| 18 | Hookworm eggs | 46 | *Plasmodium ovale* |
| 19 | *Hymenolepis diminuta* eggs | 47 | *Plasmodium vivax* |
| 20 | *Hymenolepis* *nana* eggs | 48 | *Pneumocystis jirovecii* |
| 21 | *Iodamoeba bütschlii* | 49 | *Toxoplasma gondii* |
| 22 | *Cystoisospora (Isospora) belli* oocysts | 50 | *Trypanosoma* species |
| 23 | *Paragonimus westermani* eggs | 51 | *Trypanosoma gambiense* or *rhodesiense* |
| 24 | *Pentatrichomonas (Trichomonas) hominis* | 52 | *Trypanosoma cruzi* |
| 25 | *Sarcocystis* species oocysts/sporocysts | 53 | Hydatid hooklets / protoscoleces |
| 26 | *Schistosoma haematobium* eggs |  |  |
| 27 | *Schistosoma mansoni* eggs |  |  |

**TEACHING SERIES- Relative sizes of helminth eggs**





**References**

1. [www.cdc.dpdx.co.za](http://www.cdc.dpdx.co.za/): Accessed: 10/06/2020

2. Ash LR & Orihel TC. (1997). ***Atlas of Human Parasitology***, 4th Ed. ASCP Press, Chicago

3. <https://www.msu.edu/course/zol/316/ameba.htm>: Accessed: 10/06/2015

4. http://www.dpd.cdc.gov/dpdx/html/imagelibrary/Amebiasis\_il.htm: Accessed: 10/06/2015

5. Parasitology Reference Laboratory Image Library

6. Ali, I.K.M. 2015. Intestinal amebae. *Clinics in Laboratory Medicine* 35 (2): 393-422.