Table 3
Differential Morphology of Protozoa Found in Stool Specimens of Humans: Amoebae-Trophozoites

				NUCLEUS		СҮТО	PLASM
Species	Size (Length)	Motility	Number	Peripheral Chromatin	Karyosomal Chromatin	Appearance	Inclusions
Entamoeba histolytica	10-60 μm. Usual range, 15-20 μm commensal form. ¹ Over 20 μm invasive form. ²	Progressive with hyaline, finger-like pseudopods.	Not visible in unstained preparations.	Fine granules. Usually evenly distributed and uniform in size.	Small, discrete. Usually centrally located, but occasionally is eccentric.	Finely granular.	Red blood cells occasionally. Noninvasive organisms may contain bacteria.
Entamoeba hartmanni	5-12μm. Usual range, 8-10 μm.	Usually nonprogressive but may be progressive occasionally.	Not visible in unstained preparations.	Similar to E. histolytica.	Small, discrete, often eccentric.	Finely granular.	Bacteria.
Entamoeba coli	15-50μm. Usual range, 20-25 μm.	Sluggish, nonprogressive, with blunt pseudopods.	1 Often visible in unstained preparations.	Coarse granules, irregular in size and distribution.	Large, discrete, usually eccentric.	Coarse, often vacuolated.	Bacteria, yeasts, other materials.
Entamoeba polecki	10-25μm. Usual range, 15-20 μm.	Usually sluggish, similar to <i>E. coli</i> . Occasionally, in diarrheic specimens, motility may be progressive.	1 May be slightly visible in unstained preparations. Occasionally may be irregularly distorted by pressure from vacuoles in cytoplasm.	Usually fine granules evenly distributed. Occasionally granules may be irregularly arranged. Chromatin sometimes in plaques or crescents.	Small, discrete, eccentric. Occasionally large, diffuse or irregular.	Coarsely, granular, may resemble <i>E. coli</i> . Contains numerous vacuoles.	Bacteria, yeasts.
Endolimax nana	6-12 μm. Usual range, 8- 10 μm.	Sluggish, usually nonprogressive with blunt pseudopods.	Visible occasionally in unstained preparations.	None.	Large, irregularly shaped, blot-like.	Granular, vacuolated.	Bacteria.
Iodamoeba buetschlii	8-20 μm. Usual range,	Sluggish, usually nonprogressive.	1 Not usually	None.	Large, usually central.	Coarsely granular,	Bacteria, yeasts, or other material.

	12-15 μm.		visible in unstained preparations.		Surrounded by refractile, achromatic granules. These granules are often not distinct even in stained slides.	vacuolated.	
Dientamoeba fragilis ³	5-15 μm. Usual range, 9- 12 μm.	Pseudopods are angular, serrated, or broad lobed, and hyaline, almost transparent.	(In approximately 20% of organisms only 1 nucleus is present.) Nuclei invisible in unstained preparations.	None.	Large cluster of 4-8 granules.	Finely, granular.	Bacteria: occasionally red blood cells.

 $^{^{1}}$ Commensal form - usually found in asymptomatic or chronic cases; may contain bacteria. 2 Invasive form - usually found in acute cases: often contain red blood cells. 3 Flagellate - included with amoebae for diagnostic purposes.

Table 4 Differential Morphology of Protozoa Found in Stool Specimens of Humans: Amoebae-Cysts

				NUCLEUS		СҮТС	DPLASM
Species	Size (Diameter or length)	Shape	Number	Peripheral Chromatin	Karyosomal Chromatin	Chromatoid Bodies	Glycogen
Entamoeba histolytica	10-20 μm Usual range, 12-15 μm.	Usually spherical.	4 in mature cyst. Immature cysts with 1 or 2 occasionally seen.	Peripheral chromatin present. Fine, uniform granules, evenly distributed.	Small, discrete, usually centrally located.	Present. Elongated bars with bluntly rounded ends.	Usually diffuse. Concentrated mass often present in young cysts. Stains reddish brown with iodine.
Entamoeba hartmanni	5-10 μm Usual range, 6- 8 μm.	Usually spherical.	4 in mature cyst. Immature cysts with 1 or 2 often seen.	Similar to E. histolytica.	Similar to <i>E.</i> histolytica.	Present. Elongated bars with bluntly rounded ends.	Similar to E. histolytica.
Entamoeba coli	10-35 μm Usual range, 15-25 μm.	Usually spherical. Occasionally oval, triangular, or other shapes.	8 in mature cyst. Occasionally super-nucleated cysts with 16 or more are seen. Immature cysts with 2 or more occasionally seen.	Peripheral chromatin present. Coarse granules irregular in size and distribution, but often appear more uniform than in trophozoites.	Large, discrete, usually eccentric but occasionally centrally located.	Present, but less frequently seen than in <i>E. histolytica</i> . Usually splinter-like with pointed ends.	Usually diffuse, but, occasionally well defined mass in immature cysts. Stain reddish brown with iodine.
Entamoeba polecki	9-18 μm Usual range, 11-15 μm.	Spherical or oval.	1. Rarely 2. Occasionally visible in unstained preparations.	Usually fine granules evenly distributed.	Usually small and eccentric.	Present. Many small bodies with angular or pointed ends, or few large ones. May be oval, rod-like, or irregular.	Usually small, diffuse masses stain reddish brown with iodine. A dark area called an "inclusion mass" (possibly concentrated cytoplasm) is often also present. Mass stains lightly with iodine.
Endolimax nana	5-10 μm. Usual range, 6- 8 μ						

Table 5 Differential Morphology of Protozoa Found in Stool Specimens of Humans: Flagellates-Trophozoites

Species	Size (Length)	Shape	Motility	Number of Nuclei	Number of Flagella*	Other Features
Pentatrichomonas hominis	6-20 μm. Usual range. 11- 12 μm.	Pear shaped.	Nervous, jerky.	1 Not visible in unstained mounts.	3-5 anterior. 1 posterior.	Undulating membrane extending length of body.
Chilomastix mesnili	6-24 μm. Usual range, 10- 15 μm.	Pear shaped.	Stiff, rotary.	1 Not visible in unstained mounts.	3 anterior. 1 in cytosome.	Prominent cytostome extending 1/3-1/2 length of body. Spiral groove across ventral surface.
Giardia intestinalis	10-20 μm. Usual range, 12- 15 μm.	Pear shaped.	"Falling leaf."	2 Not visible in unstained mounts.	4 lateral. 2 ventral. 2 caudal.	Sucking disk occupying 1/2-3/4 of ventral surface. Median bodies lying horizontally or obliquely in lower part of body.
Enteromonas hominis	4-10 μm. Usual range, 8-9 μm.	Oval.	Jerky.	1 Not visible in unstained mounts.	3 anterior. 1 posterior.	One side of body flattened. Posterior flagellum extends free posteriorly or laterally.
Retortamonas intestinalis	4-9 μm. Usual range, 6-7 μm.	Pear shaped or oval.	Jerky.	1 Not visible in unstained mounts.	1 anterior. 1 posterior.	Prominent cytostome extending approximately 1/2 length of body.

^{*}Not a practical feature for identification of species in routine fecal examinations

Table 6 Differential Morphology of Protozoa Found in Stool Specimens of Humans: Flagellates-Cysts

Species	Size (Length)	Shape	Number of Nuclei	Other Features
Pentatrichomonas hominis	No cyst.			
Chilomastix mesnili	6-10 μm. Usual range, 8-9 μm.	Lemon shaped with anterior hyaline knob.	1. Not visible in unstained preparations.	Cytostome with supporting fibrils. Usually visible in stained preparations.
Giardia intestinalis	8-19 μm. Usual range. 11-12 μm.	Oval or ellipsoidal.	Usually 4. Not distinct in unstained preparations. Usually located at one end.	Fibrils or flagella longitudinally in unstained cysts. Deep staining fibers or fibrils may be seen lying laterally or obliquely across fibrils in lower part of cyst. Cytoplasm often retracts from a portion of cell wall.
Enteromonas hominis	4-10 μm. Usual range, 6-8 μm.	Elongated or oval.	1-4, usually 2 lying at opposite ends of cyst. Not visible in unstained mounts.	Resembles <i>E. nana</i> cyst. Fibrils or flagella are usually not seen.
Retortamonas intestinalis	4-9 μm. Usual range, 4-7 μm.	Pear shaped or slightly lemon shaped.	1. Not visible in unstained mounts.	Resembles <i>Chilomastix</i> cyst. Shadow outline of cytostome with supporting fibrils extends above nucleus.

Table 7 Differential Morphology of Protozoa Found in Stool Specimens of Humans: Ciliates, Coccidia, and *Blastocystis*

Species	Size	Shape	Motility	Number of Nuclei	Other Features
Ciliates					
Balantidium coli					
Trophozoite	50-70 μm or more. Usual range, 40-50 μm.	Ovoid with tapering anterior end.	Rotary, boring.	1 large, kidney shaped macronucleus. 1 small micronucleus immediately adjacent to macronucleus. Macronucleus occasionally visible in unstained preparations as hyaline mass.	Body surface covered by spiral, longitudinal rows of cilia. Contractile vacuoles are present.
Cyst	45-65 μm. Usual range, 50-55 μm.	Spherical or oval.		1 large macronucleus visible in unstained preparations as hyaline mass.	Macronucleus and contractile vacuole are visible in young cysts. In older cysts, internal structure appears granular.
Coccidia					
Cystoisospora belli	Oocyst: 25-30 μm. Usual range, 28-30 μm.	Ellipsoidal	Nonmotile		Usual diagnostic stage is immature oocyst with single granular mass (zygote) within. Mature oocyst contains 2 sporocysts with 4 sporozoites each.
Sarcocystis	Sporocyst ¹	Oval	Nonmotile		Mature oocysts with thin wall
hominis	13-17 μm. Usual range, 14-16 μm.				collapsed around 2 sporocysts or free fully mature sporocysts with 4 sporozoites inside are usually seen in feces.
suihominis	11-15 μm. Usual range, 12- 13 μm.				
Cryptosporidium	Oocyst: 3-6 μm. Usual range, 4-5 μm.	Spherical or oval.	Nonmotile		Mature oocyst contains 4 "naked" sporozoites. No sporocysts are present.
Blastocystis					
Blastocystis hominis ²					

Vacuolated Form	5-30 μm. Usual range, 8- 10 μm.	Spherical, oval, or ellipsoidal	Nonmotile	1, usually, but 2-4 may be present. Located in "rim" of cytoplasm. In binucleated organisms, the 2 nuclei may be at opposite poles. In quadrinucleated forms, the 4 nuclei are evenly spaced around periphery of cell.	Cell contains large central body, or "vacuole" with a thin band, or "rim" of cytoplasm around the periphery. Occasionally a ring of granules may be seen in cytoplasm and the cell appears to have a "beaded rim."
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 $^{^1}$ Sizes are based on information from Rommel and Heydorn (1972) and Heydorn et al. (1975). 2 Description based on information from Zierdt, 1973 and McClure et al., (1980).

Table 8a (Nematodes)

Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Eggs (Nematodes)

Species	Size	Shape	Color	Stage of Development When Passed	Specific Features And Variations
Nematodes					
Enterobius vermicularis	55 μm x 26 μm Range, 50-60 μm 20- 32 μm.	Elongated, asymmetrical with one side flattened, other side convex.	Colorless.	Embryonated. Contains C shaped or tadpole-like embryo.	Smooth, thin eggshell with one flattened side. Occasionally may contain a fully developed larva. (More readily found on anal swabs than in feces).
Ascaris Iumbricoides					
fertile egg	60 μm x 45 μm. Range, 45-70 μm x 35-45 μm.	Round or ovoidal. with thick shell.	Brown or yellow brown.	1 cell, separated from the shell at both ends.	Mammillated albuminous coat or covering on outer shell. Coat is sometimes lost and decorticated eggs have a colorless shell with gray or black internal material. Eggs may be in 2, 4, or more cells, or contain a fully developed larva.
infertile egg	90 μm x 40 μm. Range, 85-95 μm x 35-45 μm.	Elongated, occasionally triangular, kidney shaped or other bizarre forms. Shell often very thin.	Brown.	Internal material is a mass of irregular globules and granules that fills shell.	Mammillated covering attenuated or missing in many cases.
Trichuris trichiura	54 μm x 22 μm. Range, 49-65 μm x 20-29 μm.	Elongated, barrel- shaped with a polar "plug" at each end.	Yellow to brown. "Plugs" are colorless.	1 cell or unsegmented.	Polar plugs are distinctive. Eggs occasionally are oriented in a vertical or slanted position and may not be readily recognized. A gentle tap on the coverslip will usually reorient the egg. On rare occasions, atypical eggs lacking polar plugs may be seen.
Hookworm					
Ancylostoma duodenale	60 μm x 40 μm. Range, 57-76 μm x 35-47 μm.	Oval or ellipsoidal with a thin shell.	Colorless with grayish cells.	4- to 8-cell stage.	Occasionally, eggs in advanced cleavage (16 or more cells) or even embryonated may be seen. Rhabditiform larvae may be present if

					the specimens are old. Species identification can not be made on eggs alone; therefore, eggs should be reported simply as hookworm.
Necator americanus	65 μm x 40 μm. Range, 57-76 μm x 35-47 μm.				
Trichostrongylus species	90 μm x 40 μm. Range, 75-95 μm x 40-50 μm.	Elongated with one or both ends more pointed than hookworm.	Colorless with grayish cells.	May be in advanced cleavage or morula stage.	Egg resembles hookworm egg but is larger and more pointed at the ends.

Table 8b (Cestodes) Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Eggs (Cestodes)

Species	Size	Shape	Color	Stage of Development When Passed	Specific Features and Variations
Cestodes					
Taenia saginata Taenia solium	35 μm. Range, 31-43 μm.	Spherical with thick striated shell.	Walnut brown.	Embryonated. 6-hooked oncosphere present inside a thick shell.	Thick, striated shell. Eggs of <i>T. solium</i> and <i>T. saginata</i> are indistinguishable and species identification should be made from proglottids or scoleces. " <i>Taenia</i> " spp. should be reported if only eggs are found.
Hymenolepis nana	47 μm x 37 μm. Range, 40-60 μm x 30-50 μm.	Oval. Shell consists of 2 distinct membranes. On inner membrane are two small "knobs" or poles from which 4 to 8 filaments arise and spread out between the two membranes.	Colorless, almost transparent.	Embryonated. 6-hooked oncosphere inside shell.	Polar filaments.
Hymenolepis diminuta*	72 μm. Range, 70-86 μm x 60-80 μm.	Round or slightly oval. Striated outer membrane and thin inner membrane with slight poles. Space between membranes may appear smooth or faintly granular.	Yellow.	Embryonated. 6- hooked oncosphere inside shell.	Resembles <i>H. nana</i> but lacks polar filaments. Poles are rudimentary and often hard to see.
Dipylidium caninum*	35-40 μm. Range, 31-50 μm x 27-48 μm.	Spherical or oval. 5-15 eggs (or more) are enclosed in a sac or capsule.	Colorless.	Embryonated. 6- hooked oncosphere inside shell.	Eggs are contained in a sac or capsule which ranges in size from $58\mu m$ to $60\mu m \times 170$ μm . Occasionally capsules are ruptured and eggs are free.
Diphyllobothrium latum	66 μm x 44 μm. Range, 58-76 μm x 40-51 μm.	Oval or ellipsoidal with an inconspicuous operculum at one end and a small "knob" at the other end.	Yellow to brown.	Unembryonated. Germinal cell is surrounded by a mass of yolk cells which completely fills inner area of shell. Germinal cell is usually not visible.	Egg resembles hookworm egg but has a thicker shell and an operculum.

Table 8c (Trematodes) Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Eggs (Trematodes)

Species	Size	Shape	Color	Stage of Development When Passed	Specific Features and Variations
Trematodes					
Schistosoma mansoni	140 μm x 66 μm. Range, 114-180 μm x 45-73 μm.	Elongated with prominent lateral spine near posterior end. Anterior end tapered and slightly curved.	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Lateral spine. Found in feces; in rare cases, in urine also. Eggs are discharged at irregular intervals and may not be found in every stool specimen. Are rare in chronic stages of infection.
Schistosoma japonicum	90 μm x 70 μm. Range, 68-100 μm x 45-80 μm.	Oval. Small lateral spine is often seen or may appear as a small hook or "knob" located in a depression in the shell.	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Found in feces. Often coated with debris and may be overlooked.
Schistosoma haematobium	143 μm x 60 μm. Range, 112-170 μm x 40-70 μm.	Elongated with rounded anterior end and terminal spine at posterior end.	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Terminal spine. Found in urine, occasionally in feces. Egg often covered with debris.
Schistosoma intercalatum	175 μm x 60 μm. Range, 140-240 μm x 50-85 μm.	Elongated with tapered anterior end and terminal spine. Sometimes "spindle-shaped."	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Terminal spine long, slender with bent tip. Resembles <i>S. haematobium</i> egg except it is longer, is thinner, and has a longer spine. Found in feces. May have debris adhering to shell.
Schistosoma mekongi	69 μm x 56 μm* Range, 51-73 μm x 39-66 μm.	Spherical. Small lateral spine, not always visible or may appear as a small "knob" in a depression in the shell.	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Found in feces. Closely resembles <i>S. japonicum</i> egg except it is smaller. May be coated with debris.
Clonorchis sinensis	30 μm x l6 μm. Range, 27-35 μm x 11-20 μm.	Small, ovoidal, or elongated with broad rounded posterior end and a convex operculum resting on "shoulders." A small "knob" may be seen on the posterior end.	Yellow brown.	Embryonated. Contains mature miracidium.	Small size, operculum and "knob" on posterior end. Shell often is covered by adhering debris.
Opisthorchis	30 μm x 12 μm.	Elongated with operculum on	Yellow brown.	Embryonated.	Lacks prominent shoulders

felineus	Range, 26-30 μm x 11-15 μm.	anterior end and pointed terminal "knob" on posterior end.		Contains mature miracidium.	characteristic of <i>Clonorchis</i> and has more tapered end.
Heterophyes heterophyes	28 μm x 15 μm. Range, 28-30 μm x 15-17 μm.	Small, elongated or slightly ovoidal. Operculum. Slight "knob" at posterior end.	Yellow brown.	Embryonated. Contains mature miracidium.	Resembles <i>Clonorchis</i> egg but with less distinct shoulders. Operculum is broader than in <i>Clonorchis</i> .
Metagonimus yokogawai	28 μm x 17 μm. Range, 26-30 μm x 15-20 μm.	Small, elongated or ovoidal. Operculum. No "shoulders" at anterior end. Small "knob" often seen on posterior end.	Yellow or yellow brown.	Embryonated. Contains mature miracidium.	Resembles <i>Clonorchis</i> and <i>Heterophyes</i> eggs. Shell is slightly thinner than <i>Heterophyes</i> . Operculum is broader than <i>Clonorchis</i> .
Paragonimus westermani	85 μm x 53 μm. Range, 68-118 μm x 39-67 μm.	Ovoidal or elongate with thick shell. Operculum is slightly flattened and fits into shoulder area of shell. Posterior end is thickened. Egg often asymmetrical with one side slightly flattened.	Yellow brown to dark brown.	Unembryonated. Filled with yolk material in which a germinal cell is imbedded. Cells are irregular in size.	Found in sputum, occasionally in feces. Resembles egg of <i>D. latum</i> but is larger, slightly asymmetrical and the operculum is smaller and flatter. The widest part of the <i>Paragonimus</i> egg is usually anterior to the center; in a <i>D. latum</i> , the widest area is around the center.
Fasciola hepatica	145 μm x 80 μm. Range, 120-150 μm x 63-90 μm.	Ellipsoidal, thin shell. Small, indistinct operculum.	Yellow to light brown.	Unembryonated. Filled with yolk cells in which an indistinct germinal cell is imbedded.	Large size. Broadly oval eggs.
Fasciolopsis buski	140 μm x 80 μm. Range, 130-159 μm x 78-98 μm.	Ellipsoidal, thin shell. Small, indistinct operculum.	Yellow brown.	Unembryonated. Filled with yolk cells in which an indistinct germinal cell is imbedded.	Large size. Resembles <i>F. hepatica</i> egg and cannot be easily distinguished from <i>Fasciola</i> .

^{*}Based on sizes of eggs in human fecal specimens reported by Harinasuta and Kruatrachue (1962) and Taylor and Moose (1971).

Table 9
Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Larvae

	RHABDITIFORM LARVA (First Stage. Has bulbed esophagus.)			FILARIFORM LARVA (Third Stage. Lacks prominent bulb in esophagus.)		
Species	Size	Genital Primordium	Buccal Cavity	Size	Length of Esophagus	Tip of Tail
Strongyloides stercoralis	225 μm × 16 μm. Range, 200- 300 μm × 16-20 μm.	Prominent. Is an elongate, tapered, or pointed structure located along ventral wall about the body length.	Short, about 1/3-1/2 as long as the width of the anterior end of the body.	550 μm × 20 μm. Range, 500- 550 μm × 20-24 μm.	Extends approximately 1/2 length of body.	Notched.
Hookworm	250 μm × 17 μm. Range, 200- 300 μm × 14-17 μm.	Inconspicuous. Rarely distinct. When seen, is small, located nearer the tail than that of Strongyloides.	Long. Approximately as long as the width of the body.	500 μm. Range, 500-700 μm × 20-24 μm.	Extends about 1/4 1ength of body.	Pointed.

Table 10Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Tapeworm Gravid Proglottids

Species	Size	Appearance of Uterus	Other
Taenia solium	12 mm in length x 5-7 mm wide.	Central "stem" or trunk with 7- 13 main lateral branches on each side.	Usually on surface of fecal material. May be in short chains of 2-3 proglottids.
Taenia saginata 16-20 mm long × 5-7 mm v		Central "stem" or trunk with 15-20 main lateral branches on each side.	Usually on surface of fecal material. May be single detached proglottids.
Diphyllobothrium latum	2-4 mm long × 10-12 mm wide. Broader than long.	Coiled into a rosette appearance.	Occasionally, portion of worm may be passed. Egg is usual diagnostic stage.
Dipylidium caninum	12 mm long × 3 mm wide. Pumpkin-seed shape; tapers at each end.	Uterus not visible. Proglottid filled with capsules containing eggs.	Proglottids may be passed singly or in chains. Often resemble rice grains in stool.
Hymenolepis nana	0.2-0.3 mm long x 0.8-0.9 mm wide. Broader than long.	Uterus not visible. Proglottid filled with eggs.	Proglottids usually disintegrate in the intestinal tract and are rarely seen in stools. Egg is usual diagnostic stage.
Hymenolepis diminuta	0.7-0.8 mm long \times 3-4 mm wide. Broader than long.	Uterus not visible. Proglottid filled with eggs.	Proglottids usually disintegrate in the intestinal tract and are rarely seen in stools. Egg is usual diagnostic stage.

Table 11Differential Morphology of the Diagnostic Stages of Helminths Found in Humans: Tapeworm Scoleces

Species	Size	Shape	Suckers No.	Appearance	Other
Taenia solium	Approximately 1 mm in diameter.	Globular or rounded.	4	Cup-like.	Double row of 25-30 large and small brown chitinous hooks arranged around a rostellum (small projection) at the top of the scolex.
Taenia saginata	1 to 2 mm in diameter.	Rounded or slightly pyriform.	4	Cup-like.	Does not have a rostellum or hooks.
Diphyllobothrium latum	2 to 3 mm in length × 1 mm wide.	Almond-shaped or spatulate.	2	Grooves.	Does not have a rostellum or hooks. Deep grooves (suckers) are located dorsally and centrally on the scolex, but often appear to be lateral.
Dipylidium caninum	0.35 × 0.37 mm.	Rhomboid or rounded.	4	Oval, cup-like.	Prominent conical or ovoid rostellum with 30-150 small thorn-shaped hooks arranged in several rows (1-7 rows). Rostellum may be retracted into a depression at the upper margin of the scolex.
Hymenolepis nana	0.3 mm in diameter.	Globular.	4	Cup-like.	Retractile rostellum with a single row of 20 to 30 hooks.
Hymenolepis diminuta	0.2-0.4 mm in diameter.	Globular or club- shaped.	4	Cup-like.	Rudimentary apical rostellum without hooks.