

PARA3002 TUTORIAL

1. Name 3 modes of transmission used by parasites.

vector-borne

· faecal-oral

predator-prey

direct (venereal)

transplacental

transmammary

horizontal

vertical

2

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2. How many times have you defecated in the last week?

Natural activity!

• 1-4

• 5-8

• 9-12

13-16

• 17+

(do it or die!)

what is 'normal'?

3

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3. List 10 vernacular names for faeces?

Very much entrenched in human language

But can be a taboo/distasteful topic

• poo, shite, number twos, pat, stool, dung, droppings, turd, crap, brown mullet, etc....

4

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4. List 5 physical characteristics of faeces.

weight/volume (frequency)

(form, consistency) appearance

 colour (green-brown-black)

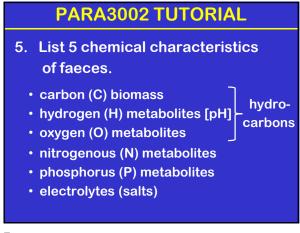
 contents (blood, corn, seeds,...)

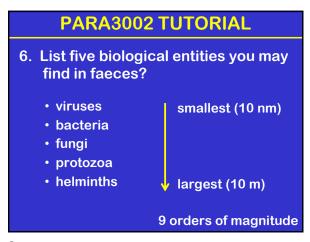
• odour (gaseous by-products)

cf. senses (sight, sound, smell, touch, taste)

PARA3002 TUTORIAL Bristol Stool Chart Sausage-shaped but lumpy Like a sausage but with cracks on the surface Like a sausage or snake, smooth and soft Soft blobs with clear-cut edges Watery, no solid pieces. Entirely Liquid

5 6





7 8

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7. Name three protozoan parasites transmitted by faeces?
 Entamoeba Giardia Balantidium Eimeria/Cryptosporidium oocysts
• Eimeria/Cryptosporidium _ oocysts

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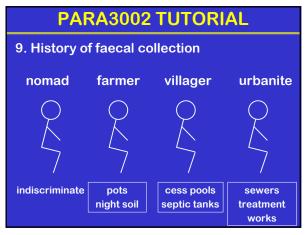
8. Name two nematode parasites transmitted by faeces?

• Enterobius
• Trichuris
• Ascaris

• Strongyloides
• Ancylostoma/Necator

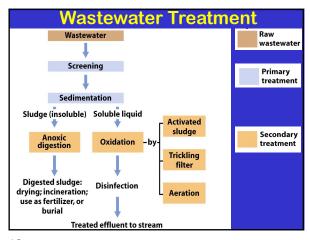
10

9

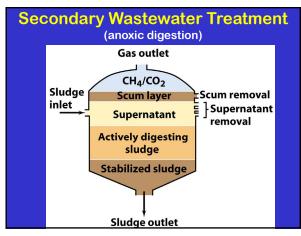


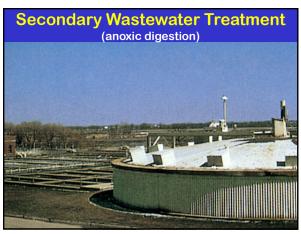
PARA3002 TUTORIAL 10. Sewage treatment anoxic filtration screening digestion disinfection sedimentation activated blending sludge storage then water treatment sedimentation filtration chlorination flocculation

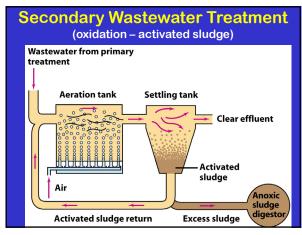
11 12













17 18

biological reactor destroys and removes most: * solids, organic matter * regulated chemicals * some micro-organisms * screening, settling and BNR (biological nutrient removal) which reduces nutrients (nitrogen, some phosphorus) * quality suitable for outdoor irrigation (e.g. golf courses)

DO
NOT
EAT
POO!