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The Bug: Feces Facts

- 70% of passed feces is water
- 70% dried weight of feces is bacteria
- 1 gram of dried feces contains up to 1 x 10¹² bacteria (1,000,000,000,000)
- 1 microgram contains 1 x10⁶ bacteria
- Most of these bacteria are anaerobic, nonpathogenic organisms...however...

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Saliva

- 1 mL of saliva can contain 1 x 10⁸ organisms
- Predominantly anaerobic
- Whole spectrum of organisms
 - aerobic
 - anaerobic
 - viruses

The Children - Our Host- The Risk

- Infants and toddlers require assistance with toileting
- Explore the environment with their mouths
- Drool
- Developing immunity
- Hands-on contact with care providers
- Contact with other children



Campylobacter Enterovirus Cryptospor	
	ridiu
E. coli O157:H7 Hepatitis A G. lamblia	

Iransmis	SION - KES	piratory
Bacteria	Viruses	More Viruses
Hib	Adenovirus	Influenza A&B
N. mening.	Measles	Parainfluenza
Pertussis	RSV	Parvovirus B19
Tuberculosis	Rhinoviruses	Varicella-zoster
Group A Strept	Mumps	Rubella

ansinission - rerson to rerson				
Bacteria	Viruses	Others		
Group A streptococci	Herpes simplex	Pediculos		
Staph. aureus	Varicella-zoster	Scabies		
		Ringworn		

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and	/or Saliva
33	Viruses
	Cytomegalovirus
	Herpes simplex
	(Hepatitis B and C)

Standard or Routine Precautions

- Treat all body fluids, excretions, secretions as potentially infectious
- Wash hands well after any inadvertent contact with such fluids
- Have immunizations up to date
- Wear gloves if contact is anticipated – this could be controversial for diapering









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Exclusion of Children

- American Academy of Pediatrics Red Book
 - Cannot participate comfortably
 - Care greater than what can be provided by the centre
 - Any of: fever, lethargy, irritability, persistent crying, difficult breathing, etc.
 - Diarrhea or stools with blood or mucus
 - Shigella infection or E. coli 0157:H7

Exclusion of Children

- Vomiting 2 or more times in previous 24 hours, unless non communicable
- Mouth sores associated with excessive drooling
- Rash with fever or behavioral changes
- Purulent conjunctivitis
 - pink or red conjunctiva with white or yellow discharge
- Impetigo, Streptococcal pharyngitis





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	Staff	
	 All staff will be screened as outlined by Provincial or State regulations hoth criminally and medically 	
	 Need clear guidelines for staff for recognizing illness in themselves 	
	 Food preparation staff separate from "toileting" staff 	
	• Eat same meals as children!	
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Hand Hygiene

- Recognized as the best way of stopping the spread of organisms in this setting
- Soap and water
 - No indication for antimicrobial soap
 - 10 5seconds of lathering
- Alcohol
 - more research into concentration required to kill all viruses

Hand Hygiene

- Towelettes
 - Must be alcohol based if used for hand hygiene
- Children
 - after toileting
 - before and after eating
 - after pets, sand, dirt, art,
 - Education on sneezing and coughing
 never too early to start!

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- Avoid kissing, or eating saliva!

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Parent Education

- Hygiene
- Management of minor illness
 - inclusion, exclusion
- Beyond my scope:
 - Child development
 - Appropriate nutrition

Outbreak Management

- Involve the local health unit!
- Have decision flow chart readily available
- · Thresholds what is acceptable
- Day Care staff need to recognize potential outbreaks developing, and also infectious disease exposure that could lead to outbreak.





