





503-693-4100

www.healthoregon.org/phl

1

#### Get to Know Your Lab...

- Review OSPHL scope & lab services
- How to find what you need
  - Available tests
  - Ordering test kits
  - Specimen collection and storage
- An intro to packing and shipping specimens

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2



# Question

Have you worked with OSPHL in the past? How often?

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3



3

#### **OSPHL Scope & Services**

- Laboratory Compliance (CLIA, ORELAP)
- Laboratory Operations (e.g., receiving, data entry, test kits)
- · Administration, Policy, and Informatics
- · General Microbiology
- Virology and Immunology
- · Newborn Screening



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## **General Microbiology**

- Bacteriology
  - Culture (isolation and reference testing)
  - Biothreat agents
- Foodborne outbreak support (bacterial subtyping)
- · Tuberculosis testing
  - QuantiFERON®
  - TB susceptibility testing
- Water microbiology
- Special projects

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5

## **Virology and Immunology**

- Sexually transmitted infections (STIs)
  - Chlamydia, gonorrhea, HIV, hepatitis
- Norovirus and other gastrointestinal viruses
- Influenza, SARS-CoV-2, and other respiratory viruses
- Viral biothreat agents
- Special projects

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## **Newborn Screening**

- · Screening for heritable disorders
  - Hemoglobinopathy Screening (e.g. Sickle Cell Disease)
  - Endocrine Screening (e.g. Hypothyroidism)
  - Metabolic Screening (e.g. PKU)
  - Severe Combined Immunodeficiency (SCID) Screening
  - Cystic Fibrosis Screening
  - Lysosomal Storage Disorders
  - Spinal Muscular Atrophy (SMA)
- · Regional testing program
  - Oregon, New Mexico, Navajo Nation, some military bases
- Screen for over 40 disorders per specimen

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7





7

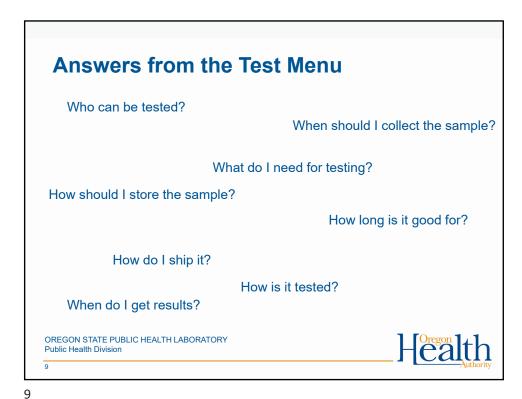
## **How to Find The Answers**

The State Lab Test Menu

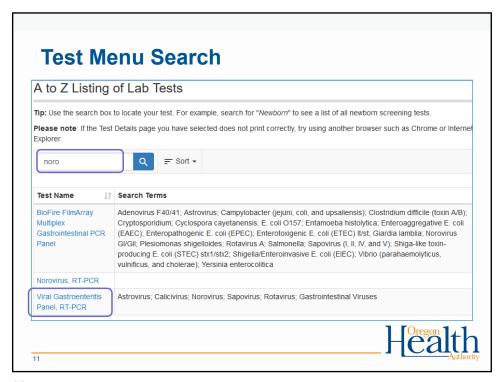
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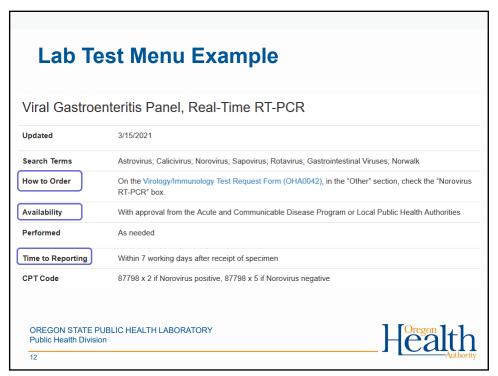
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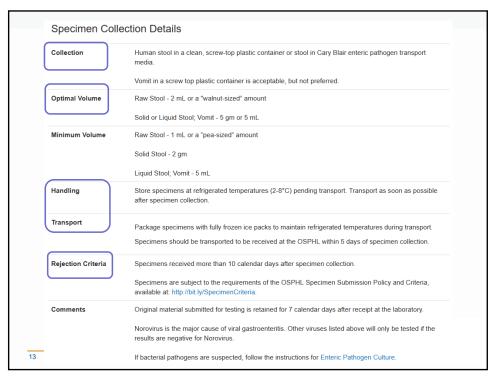












Method Detai	Is			
Methodology	Real-Time Reverse-Transcription Polymerase Chain Reaction			
Performance Specifications	Method Performance Specifications determined by the Centers for Disease Control and Prevention (CDC). Please contact the CDC for specifications if needed.			
Change Log				
3/15/2021	Edit Test Name and Performance Specifications			

Test N	lenu Summary		
Section	What it tells you	Section	What it tells you
Updated	Last changed date	Minimum Volume	Minimum sample size
Search Terms	Other names for the test	Handling	Storage conditions
How to Order	Forms to fill out	Transport	Shipping conditions and maximum time frame
Availability	Who can order/approval steps	Rejection Criteria	Invalidating factors
Performed	When this test is performed at the lab	Comments	Other notes
Time to Reporting	How long results will take	Methodology	Specific type of testing
CPT Code	Service code	Performance Specifications	Details about the testing
Collection	What sample type, what type of container to use, etc.	Change Log	List of past updates
Optimal Volume	Ideal sample size		

# **Exercise**

www.bitly.com/measles2

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## **Example – Measles Investigation**

 It is Friday at 2:00pm. You've just been notified of need to collect a specimen from a patient with symptoms consistent with measles. Rash onset was Wednesday.

Questions	Answers
Who can be tested?	
When should I collect the sample?	
What do I need for testing?	
How should I store the sample?	
How long is the sample viable?	
How should I ship the sample?	

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17



17

Measles (Rubeola), Real-Time RT-PCR Lab Test Menu



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### **Measles Investigation – Questions**

Questions	Answers
Who can be tested?	
When should I collect the sample?	
What do I need for testing?	
How should I store the sample?	
How long is the sample viable?	
How should I ship the sample?	

What else do we need to know?

- · What day to collect sample
- How to transport sample shipping options



19

- It is Friday at 2:00pm. You've just been notified of need to collect a specimen from a patient with symptoms consistent with measles.

  Rash onset was Wednesday.
- You contact the Oregon ACDP epidemiologist for approval. Testing is approved, but Saturday specimen transport and testing is not approved.
- The specimen cannot be collected until after your Friday courier pick-up.
- The next available pick-up would be on Monday and the specimen wouldn't be delivered until Tuesday morning.
- When do you decide to collect the sample?
- Are there any special considerations?
- Are there any other options?
- · Any other steps you should take before leaving for the weekend?
  - See if you have collection kits
  - Order a courier pickup

20

# **How to Get the Tools**

#### **Ordering Collection Kits**

http://bitly.com/PHLStockOrder

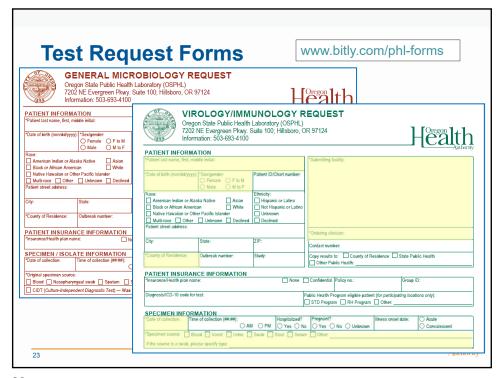
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21

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Health Oregon	http://bitly.com/PHLSto					
Instructions: Please fill out comple Consider supply expi Call 503-693-4100 wi	ration dat	es when c	nd use numerals (e.g., 1, hoosing quantities. Fax		03-693-5600.	
Facility Name:			Telephone:			
				City, State, Zip:		
(no PO boxes)			,			
Contact Name:			Contact Phone:			
* Collection Kits:			- Contact Filone.			
Contain biohazard specimen	hb			an antina davian		
Do not automatically include	0.			en collection device.		
☐ Please include Test Reque	st Forms w	vith my ord	der.			
<ul> <li>Don't include forms. Our forms from the OSPHL w</li> </ul>				se the fillable PDF or	print my own	
Collection Kits*	Form	# of	Media Only		Quantity	
Collection Kits*	#	# or Kits	Cary Blair – Bacteri	al Enteric Stool	Quantity	
For All Clients:	- "	KILS	Regan Lowe – Pert		_	
Chlamydia/gonorrhea (CT/GC)			Universal Transpor			
Multitest Swab (vaginal)	42		Respiratory Viruses			
Unisex Swab (cervical, urethral,	42		Saline transport me			
rectal, pharyngeal)					0	
	42		Courier Supplies		Quantity	
Urine			Gel/Ice Packs			



#### **Example – GI Outbreak**

- You have a repot of a gastroenteritis outbreak and you need to collect specimens for lab testing. You realize you don't have any collection kits!
- Steps:
  - 1. Check the test menu for what you need to know
  - 2. Order collection kits based on testing required
  - 3. Arrange specimen transport to lab (we'll get to this soon!)

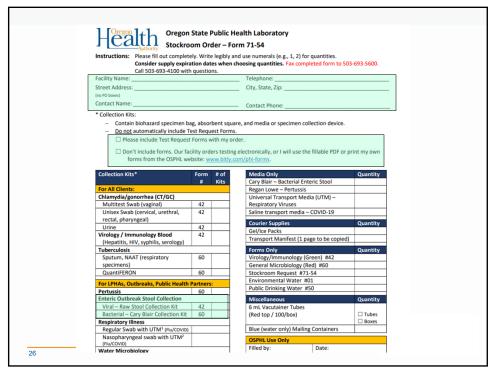
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24

#### **GI Outbreak Specimens** Organism(s) Suspected Type **Test to Order** Specimen \* Astrovirus; Calicivirus; Viral Gastroenteritis Raw stool in Norovirus; Sapovirus; Viral Panel, RT-PCR collection cup Rotavirus Salmonella; Shigella; E. Enteric Pathogen coli O157; STEC; Bacterial Stool in Cary Blair Culture Campylobacter Bacillus cereus; Staphylococcus aureus; Depends on Referral Testing to **Bacterial** Clostridium perfringens; CDC organism suspected Listeria monocytogenes \*Find complete instructions on our Lab Test Menu at Health www.healthoregon.org/labtests

25



#### **Common GI Outbreak Kits**

- · Test Kit Contents:
  - Citizen Instructions
  - Specimen Container
  - Toilet Liner
  - Paper Bowl
  - Spoon
  - Gloves

- Gauze Pad
- Lab Slip
- Alcohol Pad
- Specimen Transport Bag
- Absorbent Material
- Paper Sack



27

27

#### **GI Outbreak Kits**

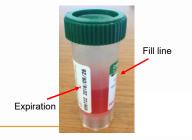
#### Viral

- Raw stool in specimen collection container
  - Refrigerate after collection
  - Ship with ice packs



#### **Bacterial or unknown**

- · Cary Blair transport media
  - Check expiration date and color
  - Transfer some specimen into this media container to the fill line.
  - Refrigerate after inoculation
  - Does not need to be shipped on ice, unless it will take several days to be delivered and the season is hot.



28

## **Get It To The Lab!**

#### **Packing and Shipping Specimens**

http://bitly.com/phl-courier

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20



29

## **Labeling Specimens**

- · Labeling the specimens
  - Two unique patient identifiers matching the test request form.
  - Do not cover patient information.
  - Leave the expiration date uncovered.
  - Leave viewing space to allow contents to be seen.



www.bitly.com/SpecimenCriteria

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30

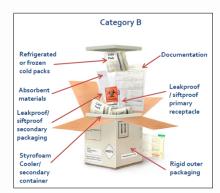




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#### **Transporting Specimens**

- Shippers of infectious substances are subject to regulations from:
  - U.S. Department of Transportation (DOT)
  - U.S. Postal Service (USPS)
  - International Air Transport Association (IATA)
- Shipping training is required if you classify, package, label, or transport infectious material



#### Some training resources:

- Free, online training from CDC (www.cdc.gov/labtraining)
- · Instructor-led, virtual shipping training courses from Saf-T-Pak and APHL
- Free, regional, in-person or virtual shipping training courses available Contact OSPHL LRN Coordinator for inquiries

32

## Let's Pack a Cooler!

#### Things to keep in mind:

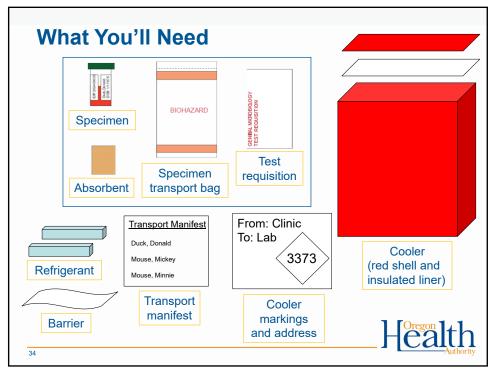
- · Always abide by transportation regulations
- These steps are for ground transport, Category B shipments (ex. with the OSPHL contracted couriers)
  - Air transport? Different rules
  - Category A? Different rules
  - Shipping with FedEx or UPS? Different rules
- Cooler is the term we use at OSPHL. Room temperature samples can also go in them – just don't add ice!

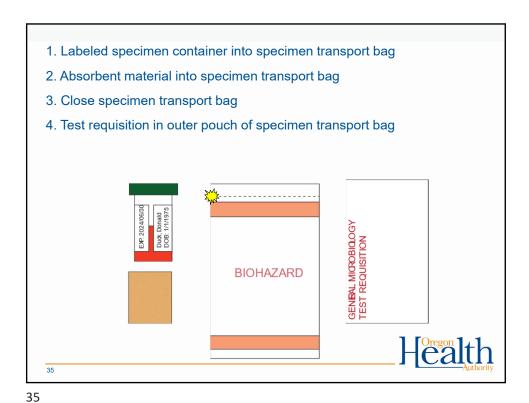
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33

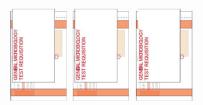


33





5. Gather all specimens with same temperature requirements6. Create Transport Manifest for shipment



Transport Manifest

Duck, Donald

Mouse, Mickey

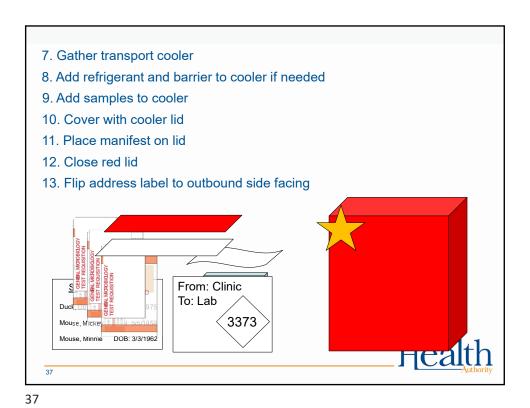
Mouse, Minnie

A Transport Manifest tells the recipient what is included in the shipment. It should include:

- · Shipping facility
- Shipping date
- List of specimens in shipment

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36

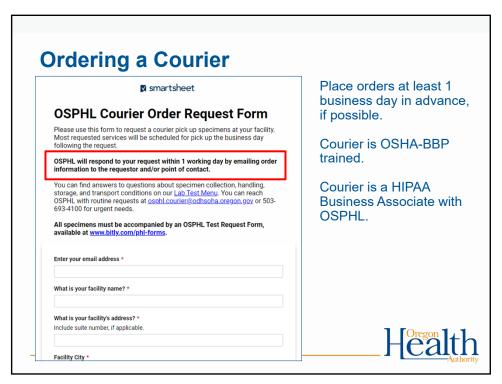


# Packing a Cooler Summary (Ground transport - Category B)

- 1. Labeled specimen container into specimen transport bag
- 2. Absorbent material into specimen transport bag
- 3. Close specimen transport bag
- 4. Test requisition in outer pouch of specimen transport bag
- 5. Gather all specimens with same temperature requirements
- 6. Create Sample Manifest for shipment
- 7. Gather transport cooler
- 8. Add refrigerant and barrier to cooler if needed
- 9. Add samples to cooler
- 10. Cover with cooler lid
- 11. Place manifest on lid
- 12. Close red lid
- 13. Flip address label to outbound facing side







# **Have questions?**

Give us a call! 503-693-4100

- Main webpage www.healthoregon.org/phl
- Test menu www.healthoregon.org/testmenu
- Stockroom orders bitly.com/PHLStockOrder
- Test requests forms bitly.com/phl-forms
- Courier requests bitly.com/phl-courier

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41

