

Seacoast Cancer Cluster Investigation Questionnaire

Introduction

Thank you for agreeing to participate by taking this questionnaire. The New Hampshire Department of Health and Human Services (DHHS) is investigating cases of pediatric rhabdomyosarcoma (RMS) and pleuropulmonary blastoma (PPB) among individuals who were diagnosed with one of these types of cancer on or after January 1, 2001 at age 19 or younger who have spent a substantial amount of time in the seacoast area of New Hampshire.

Research shows that there are no clear risk factors or environmental exposures associated with RMS or PPB, but we are investigating in order to try to identify a possible explanation for the cluster. We are asking parents or guardians of affected children to provide detail about their child's diagnosis, medical history, and possible exposures experienced by their children.

This questionnaire should take between 15 and 30 minutes to complete. Please respond to each question by either providing the detail requested or selecting (circling) your response. If you have any questions or concerns about the survey, please call us at 603-271-1568. Once you have completed the questionnaire, please return it to DHHS in the envelope provided.

Interviewee Information

a. Livingb. Deceased

1.	What is your name?						
2.	What is the best phone number to contact you?						
3.	What is your email address:						
4.	What is the best way to contact you if we have questions or need clarification?						
5.	What is your relationship to the child?						
Ch	Child information						
6.	Child's name						
7.	Child's date of birth						
8.	Is child adopted? a. Yes b. No c. Don't know/not sure						
9.	Child's sex a. Female b. Male c. Other (specify:)						
10.	0. Child's vital status						

11.	1. Child's race:								
	a. Asian								
	b.	Native Hawaiian/Otl	her Pacific Islander						
	c. Black/African American								
	d.	American Indian/Ala	aska Native						
	e.	White							
	f.	More than one race							
	g. Other (specify:)								
12.	Child's ethr	nicity							
		Hispanic							
	b.	non-Hispanic							
13	Child's age	at diagnosis of RMS (or PPR (vears, or month	s if child	was under a	ge 1)			
		-				50 1/			
14.	Date of dia	gnosis (month/year)							
15.	Names of p	hysician(s) and facilit	y where the child was f	irst diag	nosed.				
	a. Physiciar	1:	b. Fa	cility:					
	c. If needed	d, may we contact thi	s person?						
	a.	Yes							
	b.	No							
16.	Approxima	te date when child fir	st developed symptom:	s (month	n/year)				
17	Location/o	natamical site of prim	an tum ar						
17.	Location/ai	natomical site of prim	lary turnor						
18.	Type of dia	gnosis (circle all that	apply)						
		Alveolar rhabdomyo							
	b.	Embryonal RMS							
	c.	Pleuropulmonary bla	astoma (PPB)						
	d.	Other (specify:)				
	e.	Don't know/not sure	е						
Re	Residence and School Locations								
19.	19. Where did your child live when he or she was diagnosed with RMS or PPB?								
	Street add	dress (do not use a	City	State	ZIP code	Dates lived in residence			
	PO Box nu	ımber)				(month/year to month/year)			

- 20. Did your child live anywhere else before he or she was diagnosed with RMS or PPB?
 - a. Yes (complete table below)
 - b. No (go to question #21)
 - c. Don't know/not sure (go to question #21)

	eet address (do not use a PO Box mber)	City	State	ZIP code	Dates lived in residence (month/year to month/year)
А					
В					
С					

Add additional letters and information below for any additional residences

21. List schools or childcare facilities that your child attended *before being diagnosed with RMS or PPB* (if they did not attend child care or school, leave blank and go to question #22).

	me of school or Idcare center	Street address (do not use a PO Box number)	City	State	ZIP code	Dates of attendance (month/year to month/year)
А						
В						
С						
D						
Е						

Add additional letters and information below for any additional schools or childcare facilities

- 22. Did your child spend at least 28 days cumulatively at any location in NH other than the residences or schools mentioned above *before being diagnosed with RMS or PPB*, such as time at summer camps or visiting family?
 - a. Yes (complete table below)
 - b. No (go to Question #23)
 - c. Don't know/not sure (go to Question #23)

sum	ation type (relative, nmer camp, vacation ne, etc.)	Street address (do not use a PO Box number)	City	State	ZIP code	Dates spent at location (month/year to month/year)
Α						
В						
С						
D						

- 23. Is there any other location not already mentioned that you believe your child spent substantial time *before the diagnosis of RMS or PPB*?
 - a. Yes (complete table below)
 - b. No (go to Question #24)
 - c. Don't know/not sure (go to Question #24)

Loca	ation Name /Type	Street address (do not use a PO Box number)	City	State	ZIP code	Dates (month/year to month/year)
А						
В						
С						

Child's Medical History

24. List any history of disease or illness, other than RMS or PPB, that the child has now or had in the past which was diagnosed by a healthcare provider (if none, write "None" in row A and go to question #25):

Dise	ease or Illness	Date of Onset (month/year)
Α		
В		
С		
D		
Е		

25. List any medication that has been taken by the child (include prescriptions, over the counter medications, and supplements) (if none, write "None" in row A and go to question #26):

Me	dication Name	Reason for Medication	Date(s) taken (month/year)
Α			
В			
С			
D			
Е			

- a. Yes
- b. No
- c. Don't know/not sure

27. *Before diagnosis*, did the child ever use recreational drugs?

a.	Yes (if yes, which drugs?	
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- b. No
- c. Don't know/not sure

28.	Did the			ndromes including the followi (a condition that is classified (
	b.	-		naracterized by delayed develonts, and distinctive facial feat	opment and intellectual disability, lo ures)	ose	
	C.			ed disease characterized by so I cancers, brain tumors, and l	oft tissue sarcomas, osteosarcomas, eukemia)		
	 Neurofibromatosis type 1 (also called Recklinghaus disease, a genetic disorder that causes tumors to grow in the nervous system) 						
	e.	-		naracterized by distinctive fact tal malformations, and other	al features, short stature, heart signs and symptoms)		
	f.	Other: Speci	fy				
	g.	None					
29.		child <i>ever</i> red Yes	ceive any genetic test	ing, including after being dia	nosed with RMS or PPB?		
		No (Go to Qu	uestion #31)				
		-	not sure (Go to Ques	tion #31)			
30.	-	-	ct you to discuss the	findings of the genetic tests?			
		Yes					
	b. c.	No Don't know/	not sure				
31.	or CT (' materia a. b.	'CAT") scan or als to assess fo Yes No (go to Qu	r participate in a nucl unction of organs (the	ear medical study (a nuclear r yroid, bones, heart, liver, etc	n osis , did he/she ever receive an x-ranedical study uses radioactive .)?	зу	
32.	If yes, s	pecify type, n	nonth/year given, exp	oosure location on the body,	and reason x-ray or scan given.		
	a.	X-ray	month/year:	body location:	reason:		
	b.	CT scan	month/year:	body location:	reason:		
	c.	PET scan	month/year:	body location:	reason:		
	d.	SPECT scan	month/year:	body location:	reason:		
	e.	Other scan	month/year:	body location:	reason:		
33.	radiatio	on therapy for	any illness, such as r reason:	adiologic treatment for a diff	nosis, did the child ever receive erent type of cancer? ate (month/year))	
					Weh Version Page 6 o	f 15	

Prenatal History

Note that prenatal history questions are referencing when the biological mother was pregnant with the child who was later diagnosed with RMS or PPB.

34. Where did the biological mother live when she was pregnant?

Street address (do not use a PO Box number)	City	State	ZIP code	Dates lived in residence (month/year to month/year)

- 35. Did the biological mother primarily use well water or public water for drinking and cooking while pregnant?
 - a. Well water
 - b. Public water
 - c. Both well and public water
 - d. Don't know/not sure
- 36. **During pregnancy**, did the biological mother take any medications (including both chronic medications, and short-term medications such as antibiotics; include supplements, OTCs, vitamins, and herbal medicines)?
 - a. Yes (complete the table below)
 - b. No (go to question #38)
 - c. Don't know/not sure (go to question #38)

Med	dication name	Reason for Medication	Date(s) taken (month/year)
А			
В			
С			
D			

- 37. Did the biological mother smoke tobacco products during pregnancy?
 - a. Yes
 - b. No (go to Question #40)
 - c. Don't know/not sure (go to Question #40)
- 38. How many packs per day of cigarettes did the biological mother smoke?
 - a. Number packs per day:
 - b. If smoked other tobacco product, specify:
- 39. Did the mother smoke tobacco products after the child was born but before the RMS diagnosis?
 - a Yes
 - b. No (go to Question #42)
 - c. Don't know/not sure (go to Question #42)

40.			er day of cigarettes acks per day:	did the mother smok	e?		
				uct, specify:			
41.	etc? a. Y	es	did the biological r Juestion #43)	nother use any recrea	tional drugs suc	h as cocaine, marijuana, heroin	,
	c. D	on't know	v/not sure (go to qu	uestion #43)			
42.	frequency		weekly, monthly; ar	oiological mother use? and duration- number c	of months or yea	-	
	b. H	leroin	frequency:		, duration		
	c. N	/larijuana	frequency:		, duration		
	d. C	ther (spec	cify type, frequency	, and duration:)
	a. Y b. N c. D	es Io Ion't know	v/not sure			hile the mother was pregnant? vas born, but before the child w	
77.	diagnose a	d with RN . Yes . No	AS or PPB?	with the clina smoke t	agter the cima w	vas som, sat sejore the ema v	, us
45.	How old v	was the bi	ological mother wh	nen the child was born	?	_ (years)	
46.	How old v	was the bi	ological father whe	en the child was born?		(years)	
47.	which wo blood tra a b	ould be dia nsfusion)? . Yes . No	agnosed by a blood	•		ed as a low red blood cell count, with iron or in severe cases, by	
48.	radiation abdomen	from a nu , PET and . Yes . No (go	ıclear study? Examı	oles include dental x-rot include ultrasounds	ays, chest x-ray,	ans, or was the mother exposed mammogram, CT scan of the	to

49. II y	es, s	pecity type, tr	imester given, exposure	e location on the body, and	reason x-ray or scan given.
	a.	X-ray	trimester:	body location:	reason:
	b.	CT scan	trimester:	body location:	reason:
	c.	PET scan	trimester:	body location:	reason:
	d.	SPECT scan	trimester:	body location:	reason:
	e.	Other scan	trimester:	body location:	reason:
50. Du i	a. b.	<i>pregnancy,</i> di Yes No Don't know/r	·	experience any abnormal	vaginal bleeding?
51. D ui	r ing a. b. c.	Yes No (go to que	-	experience any other com	nplications?
52. Des	scrib	e other pregn	ancy complications (inc	lude detail about when the	ey occurred):
53. Wh	at w	vas your child'	s weight at birth (lbs an	d oz)? lbs	Oz
54. At v	a.	t gestational a Don't know/r		hild born?	

Family Health History

- 55. Has any close relative of the child (parent, sibling, aunt/uncle, cousin, grandparent) been diagnosed with any cancer? Examples include breast cancer, leukemia, brain cancer, or other types.
 - a. Yes (complete table below)
 - b. No (go to Question #56)
 - c. Don't know/not sure (go to Question #56)

Rela	ationship to child	Cancer type	Primary site of cancer	Blood relative (yes/no/unsure)	Age at Diagnosis (years)
Α					
В					
С					

- 56. Has any close relative (parent, sibling, aunt/uncle, cousin, grandparent) been diagnosed with any of the following genetic disorders or syndromes (see question 28 for descriptions):
 - a. Beckwith-Wiedemann syndrome
 - b. Costello syndrome
 - c. Li-Fraumeni syndrome
 - d. Neurofibromatosis type 1
 - e. Noonan syndrome
 - f. Other: Specify_
 - g. None
- 57. Has any close relative (parent, sibling, aunt/uncle, cousin, grandparent) been diagnosed with the genetic mutation called DICER1?
 - a. Yes
 - b. No
 - c. Don't know/not sure
- 58. Has any close relative (parent, sibling, aunt/uncle, cousin, grandparent) been diagnosed with any other genetic mutation?
 - a. Yes
 - b. No (go to question #60)
 - c. Don't know/not sure (go to question #60)
- 59. If yes, may we contact you to discuss the genetic mutation?
 - a. Yes
 - b. No

Occupational History

60.	example, hospital, eleme	When the child was diagnosed with RMS or PPB, what kind of business or industry did the father work in (for example, hospital, elementary school, restaurant, clothing manufacturing)? (if manufacturing, indicate type; if father was unemployed, write "unemployed")					
61.	What was his job or posit	ion?					
62.	Dates worked in that pos	ition (month/year to	month/year)				
63.	Did the father have any k a. Yes b. No (go to questio c. Don't know/not s	on #65)		rk?			
64.	If yes, provide detail abou	ut type(s) of exposur	e(s) (including types of ch	nemicals, if known):			
65. 		ble below) on # 66) sure (go to question a	-	Any chemical or radiologic exposures?			
	Work Type/Industry	Job Title	(Month/Year)	Yes/No/Don't know (if yes, specify)			
	A						
	В						
	С						
66.		ntary school, restaur	ant, clothing manufactur	is or industry <u>did the mother</u> work in for ing)? (<i>if manufacturing, indicate type; if</i>			
67.	What was her job or posi	tion?					
68.	Dates worked in that pos	ition (month/year to	month/year)				

		b. No (go to question #			
		c. Don't know/not sure	(go to question #71)		
70.	If ye	s, provide detail about ty	pe(s) of exposure(s) (including types of c	hemicals, if known):
71.		the mother have any other		ld was diagnosed b	ut after conception?
		a. Yes (complete table bb. No (go to question #3			
		c. Don't know/not sure			
	Wor	k Type/Industry	Job Title	Start & End Dates	Any chemical or radiologic exposures?
	****	Ктурсуппайзагу	JOB TICLE	(Month/Year)	Yes/No/Don't know (if yes, specify)
	Α				
	В				
	С				
	5				
/2.		the child have a job befo i a. Yes (complete table l		vith RIVIS or PPB (inc	lude part time Jobs)?
		b. No (go to question #7	72)		
		c. Don't know/not sure	(go to question #72)		
	Wor	k Type/Industry	Job Title	Vears Worken	Any chemical or radiologic exposures? Yes/No/Don't know (if yes, specify)
	Α				
	В				
	С				

69. Did the mother have any known chemical or radiologic exposures at work?

a. Yes

Other Potential Risk Factors

- 73. **Before the child was diagnosed with RMS or PPB**, did either parent have hobbies where chemicals were used? (examples film photography, furniture staining, gardening, working with metal, autobody work)
 - a. Yes (complete table below)
 - b. No (go to question #74)
 - c. Don't know/not sure (go to question #74)

Please provide detail about products used:

Product Type		Product Brand
Α		
В		
С		
D		

- 74. Before the child was diagnosed with RMS or PPB, what were the child's hobbies?
- 75. Before the child was diagnosed, did the child have any hobbies in which chemicals were used?
 - a. Yes (complete table below)
 - b. No (go to question #76)
 - c. Don't know/not sure (go to question #76)

Please provide detail about products used:

Pro	duct Type	Product Brand
Α		
В		
С		
D		

- 76. *Before diagnosis*, what type of water did the child primarily use (include water consumed at school and at home)?
 - a. Public water
 - b. Well water
 - c. Both public and well water
 - d. Don't know/not sure

- 77. At any of the homes that the child lived in *before diagnosis or that the biological mother lived in while pregnant*, was the water ever tested for contaminants? (*common tests include those for arsenic, bacteria, chloride, copper, fluoride, hardness, iron, lead manganese, nitrate/nitrite, pH, sodium, uranium, analytical gross alpha, radon, and volatile organic compounds)*
 - a. Yes (complete table below)
 - b. No (go to question #78)
 - c. Don't know/not sure (go to question #78)

Add	Iress of Residence (Street Address, City, State)	Results	
Α			
В			
С			

- 78. At any of the homes that the child lived in **before diagnosis or that the biological mother lived in while pregnant**, was the air ever tested for radon?
 - a. Yes (complete table below)
 - b. No (go to question #79)
 - c. Don't know/not sure (go to question #79)

Add	ress of Residence (Street Address, City, State)	Test Date (month/year)	Results
Α			
В			
С			

- 79. Did the child live within 10 miles of any known hazardous or toxic waste sites, leaking underground storage tanks, chemical plants, waste incinerators or landfills *before being diagnosed with RMS or PPB*?
 - a. Yes (complete table below)
 - b. No (go to question #80)
 - c. Don't know/not sure (go to question #80)

Address of Residence (Street Address, City, State)		Location (city, state)	Known hazardous or toxic waste type? (specify)
Α			
В			
С			

80.	Are there any other details or potential exposures that you think might help with this investigation? If so, blease provide detail below (locations that the child spent time, exposures that the child might have experienced, etc.).

Conclusion

Thank you for taking the time to answer these questions and helping us in this investigation. If we have any questions or need further clarification about your responses, we will reach you using the contact information provided to us. If you think of any other information that might be helpful, please contact us at 603-271-1568. Thank you again for your time.

Please use the envelope provided to return this questionnaire to the Department of Health and Human Services at your earliest convenience.