Completed Emergency Epidemic Investigation (OMB) Form

OMB No.

EMERGENCY EPIDEMIC INVESTIGATIONS

EPI-AID NO: <u>EPI-2003-03</u> FORM APPROVED OMB NO. 0920-0008 TITLE OF INVESTIGATION: EXP. DATE: 12/31/2006 Pulmonary health effects among hockey players exposed to ice resurfacer emissions, PA **USED FOR THE FOLLOWING PURPOSE:** To obtain descriptive data for health-related effects during July 2002. DATE OF THE INVESTIGATION: BEGINNING: 10 / 10 / 2002 ENDING: 10 / 24 / 2002 Complete this section for each instrument used during the investigation DATA COLLECTION METHOD: __ PERSONAL INTERVIEW X_TELEPHONE __ MAIL OTHER (please specify): A. DESCRIPTION OF RESPONDENTS (i.e., individuals, households, physicians, state and local individuals (amateur hockey players) B. ESTIMATED NUMBER OF RESPONDENTS: 96 C. NUMBER OF RESPONSES PER RESPONDENT (i.e., one time only, once a week for 2 weeks) one time only D. BURDEN PER RESPONSE (i.e., time taken for a respondent to complete the data collection instrument) 15 minutes TOTAL ANNUAL BURDEN (Multiply B X C X D):

PROJECT OFFICER:

1440

Name:

Carlos A. Sanchez

Title:

EIS Officer

CIO:

NCEH

Phone:

<u>(770) 488 3466</u>

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Appendix B. MEDICAL ABSTRACTION FORM

No.:	Team:			
Sex: Age: years				
Date at Emergency Room://	Time: (24 hrs)			
Time of onset before EMG: hours	Time after game: hours			
Past Medical History				
Previous dx of asthma: () What year? : Other medical problems:	_ Use of Inhalor? : ()			
Medications:				
Symptoms				
Chief Complaint:				
Carbon Monoxide Intoxication	Nitrogen Dioxide Intoxication			
Headache() Dizziness() Weakness()	Hemoptysis () Mucous membrane irritation () - conjunctivitis, renitis, burning throat— Cough ()			
Difficulty Concentrating () Confusion () Shortness of Breath () Visual changes ()	Fever () Wheeze () Dyspnea () Cyanosis ()			
Common to Both Nausea() Vomiting() Chest pain() Loss of consciousness() Abdominal pain() Muscle cramping()				
Vital Signs				
Temperature: °F Weight: kgs	Height: mts			
Tachypnea () resp. per minute Tachycardia () beats per minute				
Oxygen saturation: % Blood Pressure: mmHg				

Physical Examination	
Mucous membrane irritation () - conjunctivitis, retinitis, inflamed throat –	Fatigue () Lethargy () Cyanosis () Pallor () Other:
Lung Exam: rales () rhonchi () wheeze	() breath sounds (^) (v) Other:
Cell Blood Count: [WBC > Hgb	< Plt.]
WBC: Diff: PMN Lymph: Hg	jb: Hct: Platelet:
Hemolysis: (1) (0) Arterial Blood Ga	s pH /PaCO ₂ /PaO ₂ /HCO ₃
Chemistry: Glucose: Sodium (N	Na): Chlorine (CI):
Potassium (K): Bicarb (HCO3): _	BUN: Creatinine:
Calcium (Ca): Phosphorus (P): _	Magnesium (Mg):
Total Bilirrubin: Direct:	Indirect:
AST: ALT: Alc Phos:	Gluthione (GST): GGTP:
CarboxiHemoglobin (COHb) : %	Methemoglobin (MOHb): %
Other:	
Pulmonary Tests	
Chest X-ray findings:	
Peak Flows: FEV1: FEV2:	Comments:
Cardiac ElectroCardiogram:	
Emergency Room Diagnosis	
Primary:	
Secondary:	
Other:	
	charge: / / Time: hrs
Treatment: Hyperbaric O2 () Normobaric	c O2() Other:

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Normobaric O2 ()

Other:

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Appendix C. Questionnaire

Did you attend a game at the Leh	nigh Valley Ice Rink on S	eptember 29 th 2	2002? Yes (1) No (0)
Team:	Date of Interview:	//	•
Case (1) Control (0) Age	e:/ _	/ 19	Sex: M F
Weight lbs	Height	ft	
Do you live in a dorm (1)	house or an apartment	(2) other (3	s)
What type of heater do you have oil (1), natural gas	where you live? s (2), wood (3),	electric (4),	don't know (99) kerosene (5)
Game Night			
0- What was your role on your Te	am? Staff (0) Goalie (1) Center (2)	Other (3)
Now I am going to ask you some	questions about the time	you spent at tl	he ice rink.
1- What time did you arrive and w	hat time did you leave th	ne ice rink on S	eptember 29 th ?
From: (24 hrs)	To: (24 hrs)		
2- How many minutes did you spe	end playing on the ice?	3- How many	minutes on the bench?
don't know (99)		don't know	(99)
Before the game:	min	Before the ga	me: min
1 st Period:	min	1 st Period:	min
2 nd Period:	min	2 nd Period:	min
3 rd Period:	min	3 rd Period:	min
4- Compared to your usual/norma the level of physical activity at the	l level of activity during a September 29 th game o	any given game n a scale of 1 to	, how would you rate o 5?
(1) (2)	(3)	(4)	(5)
Very easy, not strenuous			Very difficult, most strenuous
5- <i>In September, had you played a</i> (99)	at this rink before the 29 ^t	^h ? Yes(1) 1	No(0) Don't know
5a. If yes, how many times in th	ne month of September?	times	

Now I have some questions about the time you spent in the lock	er room.	
6- Did you go to the locker room (0) Never went	7- How many minutes?	
6a- Before the game? Yes (1) No (0)	(1) No (0) 7a minutes	
6b- After the First Period? Yes (1) No (0)	7b minutes	
6c- After the Second Period? Yes (1) No (0)	7c minutes	
6d- After the Third Period? Yes (1) No (0)	7d minutes	
8- Which locker room? (1) (2) (3) (4) don't know (99)	
9- In September, how many times had you used this locker room	n? don't know (99)	
10- Had you been in any other locker rooms at this rink in Septe	mber? (1) (2) (3) (4) No (0)	
11-Now I am going to ask you a question about where you sat the you are standing in the middle of the room facing the wall of the bench	shower room, did you sit on the	
to your right (1) to your left (2) behind you (3) in fro	ont of you (4) don't know (99)	
12- Did you see the Zamboni running on the ice while at the rink	? When?	
Did not see it working (0) Before the game? (1)		
After 1st Period? (2) After 2nd Period? (3)	After 3rd Period? (4)	
13- Where was the Zamboni between the periods? don't	know (99)	
on the ice or next to the rink (0) in the room next to the lock	xer room (1) other (2):	
13a- If yes, was it running? don't know (99) Yes (1) No	(0) Not applicable (77)	
Did you smell the exhaust from the Zamboni		
14- during the game? 15- when you were	in the locker room?	
Did not smell (0) Did not smell	(0)	
Before the game? (1) Before the game?	(1)	
After 1 st Period? (2) After 1 st Period?	(2)	
After 2 nd Period? (3) After 2 nd Period?	(3)	
After 3 rd Period? (4) After 3 rd Period?	(4)	
16- Did you hear the Zamboni running when you were in the lock	ker room? When?	
No (0), did not hear Before the game? (1)	After 2 nd Period? (3)	
After 1 st Period? (2)	After 3 rd Period? (4)	

Health

Now I am going to ask you some questions about your health in general.					
17- Have you ever been told by a doctor or other health 18- If yes, how old were you when told? care professional that you have, any of the following:					
no disease	(0)				
asthma	(1)		years old		
exercise induced a	asthma (2)		years old		
chronic bronchitis	(3)		years old		
or any other lung o		?	years old		
allergies	*	·	years old		
don't Know	(99)		years old		
	` '	. (1) No.	(0) Don't Know (00)		
		s (1) No	(U) DON (KNOW (99)		
20- Do you smoke tobac					
20a- If yes how i	many cigarettes/pipes/ciga	ars per day	 		
21- Do you live with son	neone who smokes? Ye	s (1) No (0)			
Now I am going to ask you some questions about how you were feeling before, during and after the game. I an interested in knowing if you felt any of the following more than you normally do. Did you have the following:					
22. Before the Game	23. During the Game	24. After the Game	25. Do you still have		
Friday-September 27	Sunday-September 29 th	Monday-September 30 th	any of them?		
More tired than usual (1)	More tired than usual (1)	More tired than usual (1)	More tired than usual (1)		
Dizziness (2)	Dizziness (2)	Dizziness (2)	Dizziness (2)		
Headache (3)	Headache (3)	Headache (3)	Headache (3)		
Nausea (4)	Nausea (4)	Nausea (4)	Nausea (4)		
Vomiting (5)	Vomiting (5)	Vomiting (5)	Vomiting (5)		
Rash (6)	Rash (6)	Rash (6)	Rash (6)		
Cough (7)	Cough (7)	Cough (7)	Cough (7)		
Coughing up blood (8)	Coughing up blood (8)	Coughing up blood (8)	Coughing up blood (8)		
Shortness of Breath (9)	Shortness of Breath (9)	Shortness of Breath (9)	Shortness of Breath (9)		
Tightness in your chest (10)	Tightness in your chest (10)	Tightness in your chest (10)	Tightness in your chest (10)		
Burning in your throat (11)	Burning in your throat (11)	Burning in your throat (11)	Burning in your throat (11)		
Sneezing (12)	Sneezing (12)	Sneezing (12)	Sneezing (12)		
Fever (13)	Fever (13)	Fever (13)	Fever (13)		
Joint Pain (14)	Joint Pain (14)	Joint Pain (14)	Joint Pain (14)		
26- At what time did you feel the worst? hrs / / / (99) Don't know 27- Did you go to a doctor or clinic for any of these conditions? Yes (1) No (0) 27a- If yes, Family doctor (1) Local Emergency Room (2) Urgent Care Clinic (3) 27b- If yes, what day did you go? / / 2002					

Please See Back Form

27c- Where? _____

Thank you,

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