Severe vaping-related illness and injury

CANADIAN PAEDIATRIC SURVEILLANCE PROGRAM

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REPORTING INFORMATION (To be completed by the CPSP) Report number: Month of reporting: Province: Today's date:

Please complete the following sections for the case identified above. If the information requested below is not readily available, please leave it blank. Strict confidentiality of information will be assured.

CASE DEFINITION FOR SEVERE VAPING-RELATED ILLNESS AND INJURY

Report any patient less than 18 years of age (up to 18th birthday) requiring emergency department care, hospitalization, or admission to an intensive care unit (ICU) due to an illness or injury associated with any of the following:

- 1. Inhalation of aerosol from a vaping device (e.g., acute pulmonary injury, serious gastrointestinal symptoms, central nervous system activation/depression, acute nicotine toxicity or withdrawal)
- 2. Malfunction of a vaping device (e.g., burn, trauma to the eye, hand, and/or face)
- 3. Ingestion of a vaping substance (e.g., e-liquid with or without nicotine and/or flavours, tetrahydrocannabinol [THC] oil, hash oil)

Exposure to vaping devices/products/substances may be either **intentional** or **unintentional** and includes both primary (i.e., direct use/inhalation) and/or secondary exposures (i.e., exposure to another person's vaping aerosol or injury caused by another person using a vaping device).

Vaping devices include any type of electronic cigarette or similar device that aerosolizes a solid or liquid substance (vaping substance) which may contain some or all of the following: nicotine, cannabis, flavouring agents, and other chemicals.

SEC	TION 1 – PATIENT DEM	OGRAPHIC INFORMATI	ON			
1.1	Month/year of birth:	M /				
1.2	Sex assigned at birth: O Male O Female O Intersex					
1.3	Gender: O Male O Female O Transgender O Non-binary O Unknown O Other, specify:					
1.4	☐ Arab☐ Japanese☐ First Nations☐ Southeast Asian(e.g., Vietnamese,	ted population groups (sel	☐ Chinese☐ Latin American☐ Métis☐ West Asian☐	, i		
1.5	First 3 digits of patient's	s postal code:				
SEC	TION 2 – CLINICAL PRE	ESENTATION				
2.1	Date of presentation:	//				
2.2	How was the vaping-related illness/injury acquired? (select only one)					
	(select □ Res □ Nau □ Para □ Dizz		t all that apply): spiratory distress usea/vomiting ranoia/hallucinations ziness	□ Abdominal pain□ Coma□ Palpitations/tachyo	Mouth/throat irritatio□ Agitation□ Headachecardia	
		☐ Nic	otine withdrawal	☐ Central nervous s	stem depression	

☐ Other, specify: ___

☐ Constitutional symptoms (e.g., fever, weight loss

		b) Did the injury reach criteria for probable or confirmed vaping-associated lung illness (VALI)*: O Confirmed O Probable O Unsure O N/A * For specific diagnostic criteria, refer to: https://www.canada.ca/en/public-health/services/diseases/vaping-pulmonary-illness/health-professionals/national-case-definition.html			
		 c) Was the injury due to: O Direct exposure (i.e., inhalation) O Second-hand exposure (i.e., another person using a vaping device) O Unknown 			
O Malfunction of a vaping device		If yes: a) Which type(s) of illness/injury did the patient experience? (select all that apply)			
		□ Respiratory distress □ Eye injury/burn/vision loss □ Mouth injury/burn □ Injury/burn to lower limbs □ Other, specify:			
		 b) What was the cause of the injury? O Battery malfunction O Electrical fire O Smoke inhalation O Explosion O Unknown O Other, specify: 			
	O Ingestion of a vaping substance	If yes: a) Was the ingestion: O Intentional O Unintentional O Unknown			
		b) Which type(s) of illness/injury did the patient experience? (select all that apply)			
		□ Respiratory distress □ Mouth/throat irritation and/or burn □ Nausea/vomiting □ Abdominal pain □ Agitation □ Paranoia/hallucinations □ Coma □ Headache □ Dizziness □ Palpitations/tachycardia □ Central nervous system depression □ Other, specify:			
		c) How did the patient come in contact with the vaping substance? O Spill O Refill bottle O Prefilled cartridge/pod product O Directly from the device O Unknown O Other, specify:			
2.3	Was the injury officially reported? O Yes	O No O Unknown			
	If yes, where was it reported? (select all the	nat apply) □ Public health authorities □ Health Canada □ Poison control □ Other, specify:			
SEC	TION 3 – VAPING PRODUCT INFORMAT	TON			
3.1	Did the vaping substances contain flavou	ring? O Yes O No O Unknown O N/A			
	If yes: Which flavours did the vaping subsection of Mint O Menthol O Fruit O Desser	stances contain? t/candy O Tobacco O Alcohol O Cannabis O Other, specify:			
3.2	Did vaping substances contain nicotine?	O Yes O No O Unknown O N/A			
3.3 3.4	Did vaping substances contain cannabis or cannabinoids (e.g., tetrahydrocannabinol [THC], cannabidiol [CBD], hash oil)?				
3.5	Was the device modified or used in a way	y that differed from its recommended use? O Yes O No O Unknown			
3.6	How were the vaping product(s)/substance Purchased from a legal retail location (Purchased from a legal/illegal online so Purchased from an illegal source other Borrowed/given from a friend or family Found at home Of ther, specify: Unknown	(e.g., vape shop, authorized retailer for cannabis) ource r than online (i.e., illicit market) member			

SECTION 4 – TREATMENT AND OUTCOMES

4.1	Patient treatment location (select all that apply): Emergency department Inpatient hospital ward ICU Other, specify:				
	f the patient was hospitalized: How many days was the patient hospitalized? day(s) O Unknown O Still admitted				
	the patient was admitted to the ICU: How many days did the patient remain in the ICU? day(s) ② Unknown ② Still admitted				
4.2	Did the patient require (select all that apply): ☐ Intravenous fluids ☐ Steroids ☐ Antibiotics ☐ Surgery ☐ Oxygen ☐ Non-invasive ventilatory support (i.e., BiPAP) ☐ Intubation ☐ Tracheostomy ☐ Extracorporeal membrane oxygenation (ECMO) ☐ Other, specify:				
4.3	Patient outcome: O Full recovery O Ongoing health issue(s), specify:				
SEC	TION 5 – CO-EXPOSURES, RISK FACTORS, AND COMORBIDITIES				
5.1	Has the patient ever been tested for COVID-19: O Yes O No O Unknown				
	If yes: Did the patient ever test positive for: ☐ COVID-19 polymerase chain reaction (PCR) ☐ COVID-19 antibody ☐ Unknown				
	If patient tested positive: Date of test:				
5.2	Does the patient have a history of/been diagnosed with a chronic medical condition? •• Yes •• No •• Unknown				
	If yes, specify (select all that apply): ☐ Asthma ☐ Cystic fibrosis ☐ Congenital heart disease ☐ Epilepsy ☐ Inflammatory bowel disease ☐ Diabetes ☐ Unknown ☐ Other, specify:				
5.3	Had the patient used a vaping device <u>prior to</u> the use/exposure that led to this injury/illness? O No O Once or twice O Three times or more O Unknown O N/A				
	If yes, what was the frequency of vaping device use in the month preceding the injury/illness? O No use O Once or twice O Weekly O Daily O Unknown				
5.4	Has the patient <u>ever</u> used (select all that apply):				
	☐ Cigarettes ☐ Other tobacco products (e.g., cigars, hookah, chewing tobacco) ☐ Cannabis ☐ Alcohol ☐ Opioids ☐ Benzodiazepines ☐ Cocaine ☐ Ecstasy/molly/MDMA ☐ Psychostimulants (non-prescribed) ☐ Other, specify (if known): ☐ ☐ ☐ Unknown ☐ N/A				
5.5	The <u>day of the illness/injury</u> , <i>in addition</i> to the vaping product identified in Section 3, had the patient used (select all that apply):				
	☐ Cigarettes ☐ Other tobacco products (e.g., cigar, hookah, chewing tobacco) ☐ Cannabis ☐ Alcohol ☐ Opioids ☐ Benzodiazepines ☐ Cocaine ☐ Ecstasy/molly/MDMA ☐ Psychostimulants (non-prescribed) ☐ Other, specify (if known): ☐ ☐ Unknown ☐ None ☐ N/A				
5.6	Does the patient have a history of/been diagnosed with a mental health or behavioural condition? O Yes O No O Unknown If yes, specify (select all that apply):				
	□ Depression □ Suicidal ideation □ Suicide attempts □ Self-harm □ Eating disorder □ Anxiety □ Drug overdose □ Behavioural problems □ Attention-deficit/hyperactivity disorder □ Unknown □ Other mental health/behavioural condition, specify:				
5.7	Is there a history of parental/familial/peer use of vaping, tobacco, and/or cannabis products? O Yes O No O Unknown If yes, specify (select all that apply):				
	☐ Mother ☐ Father ☐ Sibling ☐ Grandparent ☐ Other relative ☐ Peer/friend(s) ☐ Unknown				
O I agree to be contacted by the CPSP for further information on this questionnaire.					

O I do not wish to be contacted by the CPSP for further information on this questionnaire.

SECTION 6 – LONG-TERM IMPACT

A separate study may be conducted to better understand the long-term impact of severe vaping-related illness and injury. This process would be separate from the CPSP.

6.1	Do you agree to be contacted by the study team in the future with follo 'Yes' you are giving permission for the CPSP to release your contact ir led by Dr. Nicholas Chadi. O Yes O No						
SEC	TION 7 – REPORTING PHYSICIAN						
7.1	Which of the following best describes your practice? General paediatrician O Paediatric subspecialist, specify: Other, specify:						
7.2	2 First 3 digits of the postal code of your practice:						
7.3	Practice setting (select all that apply): a) □ Urban □ Suburban □ Rural/remote b) □ Academic □ Non-academic c) □ Emergency department □ ICU □ Inpatient hospital ward	☐ Other, specify:					
First	nameSurname						
Addr	ess						
	Province/territory	Postal code					
Telep	phone numberFax number						
E-ma	ilDate completed						

Thank you for completing this form.

(VRI 2021/01)