

**Table S1: Search Strategies Employed**

<b>Search Strategies Used to Find U.S. ENDS Overheating/Fire/Explosion Events</b>				
<b>Database(s) and Access</b>	<b>Type of Reports</b>	<b>Type of Search and Methods</b>	<b>Date Spans for the Search</b>	<b>Search Term(s)</b>
<sup>‡</sup> FDA internal	Voluntary reports from consumers, concerned citizens and healthcare professionals submitted via the Safety Reporting Portal, MedWatch, phone, postal mail, and e-mail	Prospectively tagged relevant incoming reports  Retrospective	1 Jun 2012 through 30 Sep 2015  1 Nov 1998 through 30 Sep 2015	Not applicable  “ENDS” “e-cigarette” “e-liquid” “e-cig” “overheat” “fire” “explo” “charge” “battery” “lithium”
<sup>†</sup> FAA Office of Security and Hazardous Materials Safety – Public[17]	Case summaries of battery-related incidents involving cargo and passenger baggage involving smoke, fire, extreme heat or explosion	Retrospective  Hand searched “Device” and “Type of Battery” fields for each term within all posted cases.	20 Mar 1991 through 3 Jun 2015	“e-cig” “e-cigarette” “electronic cigarette” “electric cigarette” “lithium” “Li-ion” “lithium metal”
CPSC National Electronic Injury Surveillance System (NEISS) –Public[18]	Case summaries of contracted hospitals’ emergency visit reports of injuries associated with the use of consumer products	Retrospective  Text searched for each term in the narrative field for product terms  Sorted spreadsheet chronologically by Product 1 then Product 2 fields.  For product code hits, searched within the associated narrative fields for the injury terms.	1 Jan 2009 through 31 Dec 2014 (database last updated 12 May 2015)	“electric cigarette” “vapor cigarette” “e-cigarette” “e-cig” “electronic cigarette” “overheat” “lithium” “vaporizer” “atomizer” “cartomizer” “cartridge”  Product codes: 550, 883, 936, 4062, 4081, 4083, 5555, 7878 “burn” “heat” “fire” “flame” “smoke” “explo”

**Table S1: Search Strategies Employed**

<b>Search Strategies Used to Find ENDS Overheating/Fire/Explosion Events (continued)</b>				
<b>Database(s) and Access</b>	<b>Type of Reports</b>	<b>Type of Search and Methods</b>	<b>Date Spans for the Search</b>	<b>Search Term(s)</b>
USCG NRC – Public[19]	Case summaries of reported air/water/highway transportation incidents (including civilian)	Retrospective  Text searched for each term in “incident commons” tab, the “description of incident” and “incident cause columns” and in the “materials involved” tab, “name of material” column.  Searched “incident details” tab hits.	1 Jan 2007 Through 30 May 2015 (database has real-time updates)  1 Jan 2012 through 30 Sep 2015	“Electric cigarette” “e-cigarette” “e-cig” “electronic cigarette” “explo” “battery” “atomizer” “cartomizer”  “cig” “overheat” “fire” “battery” “lithium” “charger” “charging” “vaporizer” “cartridge”
PubMed -Public and Web of Knowledge, SciFinder, Embase, and EBSCOhost - FDA Subscription databases for librarian-assisted search	Peer-reviewed scientific literature published in English	Weekly ongoing	No limit on starting date through 30 Sep 2015	(“electronic nicotine devices” OR “electronic nicotine device” OR “electronic nicotine delivery systems” OR “electronic nicotine delivery system” OR “electronic cigarettes” OR “electronic cigarette” OR “e-cigarettes” OR “e-cigarette” OR “e-cig” OR “e-cigs”) AND (“health effect*” OR “adverse effect*” OR “adverse reaction*” OR “adverse event*” OR “complication*” OR “side effect*” OR “hospitalization”)
CTP daily clipping service - internal contract	Media outlet search pertinent to tobacco control	Daily ongoing	1 Dec 2012 through 30 Sep 2015	Proprietary
CTP “Google Alerts” - Public	Internet search engine	Daily ongoing	1 Mar 2014 through 28 Feb 2015  1 Mar 2015 through 30 Sep 2015	“electronic cigarettes”  “adverse events of electronic cigarettes” “adverse effects of e-cigarettes” “explosions with e-cigarettes” “hurt with e-cigarettes” and “fire and electronic cigarettes”

**Table S1: Search Strategies Employed**

Search Strategies Used to Find Recalls for ENDS Products and Other Mobile Consumer Electronics				
Database(s) and Access	Type of Reports	Type of Search and Methods	Date Spans for the Searches	Search Term(s)
FDA subscription databases used in librarian-conducted search: CINAHL Plus with Full Text, Academic Search Complete, Alt HealthWatch Business Source Complete, PsycINFO, Regional Business News, Science & Technology Collection, eBook Collection (EBSCOhost )	Peer-reviewed selected scientific, business and consumer literature with no language limitation.	Retrospective	1 Jan 2009 through 23 Oct 2015	(overheat* OR ablaze* OR fire OR fires OR "heat related failure") AND ("mobile electronic device" OR "mobile electronic devices" OR "portable electronic device" OR "portable electronic devices" OR "electronic toothbrush" OR "electronic toothbrushes" OR laptop OR laptops OR "mobile phone" OR "mobile phones" OR "cell phone" OR smartphone* OR "electronic cigarette" OR "e-cigarette" OR "e-cig" OR "credit card reading machine" OR "credit card reader" OR "e-reader" OR "lithium ion battery" OR "lithium ion batteries" ) AND ( incidence* OR recall* OR "rate of occurrence" OR "failure rate" )
CPSC Product Recalls – Public Database[129]	Voluntary product recalls in the United States	Retrospective  Text searched for each term in the "Search Recalls and News Alerts" field	1 Jan 2009 through 24 Oct 2015	"electronic cigarette" "e-cigarette" "electric cigarette" "vapor cigarette"

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<b>Search Strategies Used to Find Recalls for ENDS Products and Other Mobile Consumer Electronics (continued)</b>				
<b>Database(s) and Access</b>	<b>Type of Reports</b>	<b>Type of Search and Methods</b>	<b>Date Spans for the Searches</b>	<b>Search Term(s)</b>
Global Portal on Product Recalls – Public Database[107]	Voluntary and mandatory product recalls from Australia, Canada, the European Commission, Japan and the United States – launched October, 2012 with 2000 entries and updated regularly with historical and new data – used English language postings	Retrospective  Free text field search with no entries to the fields for “product name,” “manufacturer,” “jurisdiction” or “where made” fields	1 Jan 2009 through 24 Oct 2015	“electronic cigarette” “e-cigarette” “electric cigarette” “vapor cigarette”

<sup>3</sup>FDA’s internal search included data from CPSC’s relevant unpublished consumer reports submitted via saferproducts.gov (1/1/2013 - 9/30/2015) that were shared with FDA.

<sup>†</sup>One case is unpublished as shared by the FAA.