

# **Medical Device Adverse Events: You Don't Know What You Don't Know**



**DEVICE EVENTS™**

# **Madris Tomes, MBA**

**Founder and CEO, Device Events (current)**

Adverse Events Sub-group Lead, AHA's Learning UDI Community

FDA Public Health Analyst, Unique Device Identification (UDI), and  
Subject Matter Expert for Adverse Event Reporting

Co-author, UDI Demonstration Abstract (cardiac stents) with Mercy,  
Mayo, Boston Scientific, Duke, Medtronic, Abbott, and the FDA

FDA Device Liaison to CMS for Sunshine Act

Broadcast Public Relations for Firestone Tire Recall (2000)

**Featured in: New York Times (front page business section), CNN,  
Washington Post Magazine, CNBC Power Lunch, Reuters,  
NBC NY**

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**\*95%** of the medical devices on the market have not gone through clinical trials. Most people, doctors included, do not know this.

It takes **2 months to 2 years** for medical device patterns/signals to be identified, investigated, and reported by the FDA.

*"Today, we do not track medical device adverse effects reported by physicians before an actual recall is issued."*

*VP at the second largest Group Purchasing Organization (GPO)  
In the US*





Topics: Legal

## Olympus faces more legal pushback over endoscopes linked to UCLA superbug outbreak

**The New York Times**

HEALTH

*Replacing Faulty Heart Devices Costs Medicare \$1.5 Billion in 10 Years*

**THE WALL STREET JOURNAL.** U.S.



214



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U.S. NEWS

## More Health Insurers Take Action to Curb Morcellator Use

New policies further sideline once-popular medical device in wake of regulators' warnings

Recent Headlines Demonstrate the Cost of  
Impenetrable Data



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With over **6 million reports** in Public MAUDE,  
the data is impenetrable, unusable and not timely.

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What You See in Public MAUDE



DEVICE EVENTS™



Over **1300 Variations** of the Name “Medtronic” Have Been Submitted to the FDA in the last 2 years alone.

## type

recall (4)  
report (402292)

## company-name

MEDTRONIC PUERTO ... (70061)  
MEDTRONIC MINIMED (62354)  
MEDTRONIC PUERTO ... (56206)  
MEDTRONIC MED REL, INC. (31076)  
MEDTRONIC MED REL... (30839)  
MEDTRONIC NEUROMO... (19952)  
MEDTRONIC, INC. (17592)  
MEDTRONIC IRELAND (10952)  
MEDTRONIC S.A. (10701)  
MEDTRONIC PUERTO ... (10656)

## brand-name

PARADIGM REAL-TIM... (30647)  
PARADIGM REAL-TIM... (25881)  
530G INSULIN PUMP (7523)  
INTERSTIM II (4994)  
INFUSE BONE GRAFT (4003)  
RESERVOIR 3ML (3249)  
(3130)  
RESTORE ULTRA (2778)  
PARADIGM INSULIN ... (2684)  
SENSOR ENLITE (2670)



First Previous **1** 2 3 4 5 6 7 8 9 10 Next Last

Showing 1-10 of 402296 in 0.331 seconds.

PARADIGM REAL-TIME INSULIN INFUSION PUMP - MEDTRONIC MINIMED, 2014-10-01

**MEDTRONIC** MINIMED

PARADIGM REAL-TIME INSULIN INFUSION PUMP - MEDTRONIC PUERTO RICO OPERATIONS CO., 2012-10-31

**MEDTRONIC** PUERTO RICO OPERATIONS CO.

PARADIGM REAL-TIME INSULIN INFUSION PUMP - MEDTRONIC MINIMED, 2012-11-28

**MEDTRONIC** MINIMED

PARADIGM REAL-TIME INSULIN INFUSION PUMP - MEDTRONIC MINIMED, 2013-01-28

**MEDTRONIC** MINIMED

BATTERY CHARGER MLINK - MEDTRONIC MINIMED, 2014-09-16

**MEDTRONIC** MINIMED

**Without Matching and Cleansing, True  
Adverse Event Counts are Inaccurate**



**DEVICE EVENTS™**

## Mission Statement

Our mission is to contribute to better patient outcomes and improve patient safety while reducing the risk associated with medical device decisions by healthcare organization and providers.

We empower users with information to make more informed decisions about the medical devices they use, before device recalls are issued by the FDA.



## The Current State of Adverse Events



**DEVICE EVENTS™**  
MASTERING MEDICAL DEVICE DATA



Showing 1-25 of 8,078,755 in 3.500 seconds.

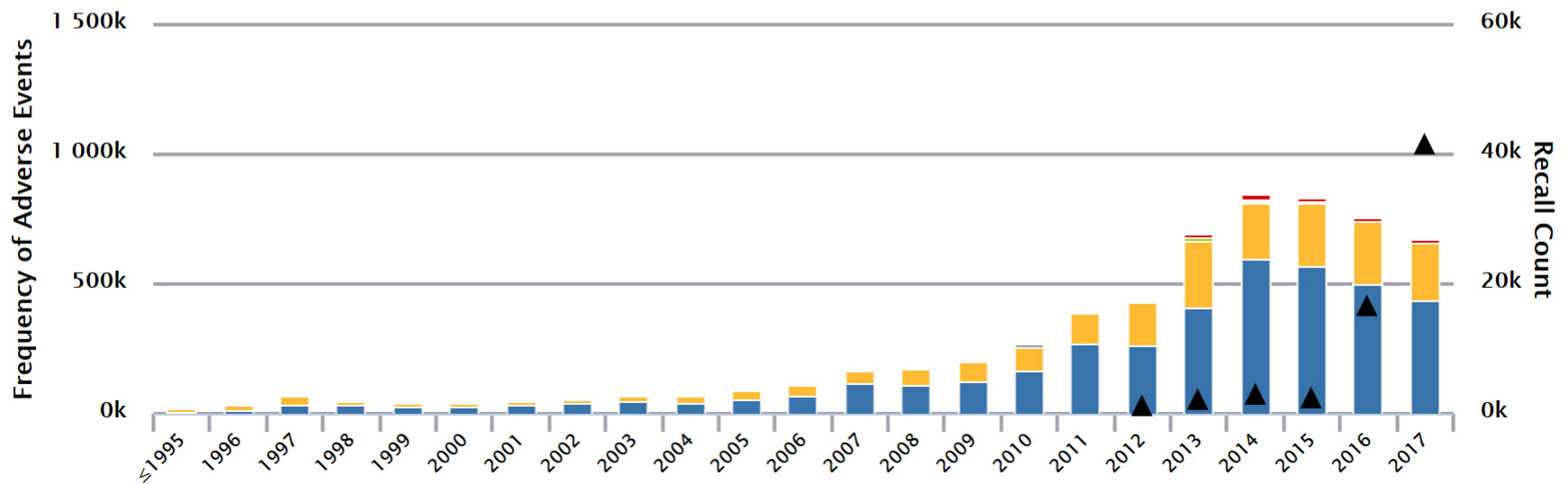


Search Preview

Chart (Beta)

Death Blank Other Injury Malfunction Recall

## ADVERSE EVENTS



# The Current State of Adverse Events



DEVICE EVENTS™  
MASTERING MEDICAL DEVICE DATA

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## Record Type



☒ Adverse Event Report (6,591,307)

☒ GUDID Record (1,419,978)

☒ Recall (67,470)

## Report Type

☒ Malfunction (4,123,403)

☒ Injury (2,183,714)

☒ Death (128,422)

☒ Other (100,383)

☒ *blank* (55,385)

## Report Source

☒ Manufacturer report (6,344,293)

☒ Voluntary report (106,405)

# The Current State of Adverse Events



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## Report Type

- ☒ Injury (36,022)
- ☒ Malfunction (2,441)
- ☒ Death (378)
- ☒ Other (280)
- ☒ *blank* (102)

## Report Source

- ☒ Manufacturer report (38,611)
- ☒ Voluntary report (412)
- ☒ User Facility report (155)
- ☒ Distributor report (45)

## Reporter Occupation

- ☒ ATTORNEY (18,605)
- ☒ PHYSICIAN (9,999)
- ☒ OTHER (6,535)
- ☒ PATIENT (1,446)
- ☒ HEALTH PROFESSIONAL (863)
- ☒ NOT APPLICABLE (435)
- ☒ *blank* (266)
- ☒ SERVICE PERSONNEL (221)
- ☒ UNKNOWN (197)

BOSTON SCIENTIFIC CORP BECAME AWARE OF A REPORTABLE EVENT THAT WAS REPORTED AS INVOLVING 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT; HOWEVER, BOSTON SCIENTIFIC DOES NOT MFR 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT. AS REPORTED: IN 2007, MY HUSBAND HAD AN ANGIOPLASTY PERFORMED. THREE DAYS LATER, HE HAD A STENT IMPLANT. IT IS A STENT WITH 6-605 COBALT CHROMIUM ( COCR ) ALLOY. ACCORDING TO THE PATIENT'S GUIDE TO STENT IMPLANTATION BOOKLET IT STATES "PERSONS ALLERGIC TO L-605 COBALT CHROMIUM ( COCR ) ALLOW MAY SUFFER AN ALLERGIC REACTION TO THIS... COBALT

### UNKNOWN HIP - Zimmer Biomet , 2016-03-23 , 5521014

**Problem:** Material erosion

THE USER FACILITY IS OUTSIDE OF THE UNITED STATES. CURRENT INFORMATION IS INSUFFICIENT TO PERMIT CONCLUSIONS AS TO THE CAUSES OF THE EVENTS. EVENT DETAILS AND PRODUCT IDENTIFICATION WAS NOT PROVIDED FOR THE PATIENTS MENTIONED IN THE JOURNAL ARTICLE. BRAND NAME - UNKNOWN CERAMIC AND COBALT - CHROMIUM HEADS. INITIAL REPORTER NAME - THIS ARTICLE WAS WRITTEN BY SOK CHUEN TAN, ADRIAN C.K. LAU, CHRISTOPHER DEL BALSO, JAMES L. HOWARD, BRENT A. LANTING, AND MATTHEW G. TEETER. DEVICE LOCATION UNKNOWN.  
...: CERAMIC AND OXIDIZED ZIRCONIUM VS COBALT ...

### R3 COCR LINER - Smith & Nephew , 2016-04-13 , 5573436

IT WAS REPORTED THAT RIGHT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.  
IT WAS REPORTED THAT RIGHT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.

### R3 COCR LINER - Smith & Nephew , 2016-04-14 , 5576549

IT WAS REPORTED THAT LEFT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.  
IT WAS REPORTED THAT LEFT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM

# The Current State of Adverse Events



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## Report Type

- ☒ Injury (35,536)
- ☒ Malfunction (2,628)
- ☒ Death (365)
- ☒ Other (273)
- ☒ blank (122)

## Report Source

- ☒ Manufacturer report (38,369)
- ☒ Voluntary report (377)
- ☒ User Facility report (133)
- ☒ Distributor report (45)

## Reporter Occupation

- ☒ ATTORNEY (18,419)
- ☒ PHYSICIAN (9,814)
- ☒ OTHER (6,484)
- ☒ PATIENT (1,448)
- ☒ HEALTH PROFESSIONAL (867)
- ☒ NOT APPLICABLE (437)
- ☒ MEDICAL EQUIPMENT COMP... (246)
- ☒ UNKNOWN (225)

WITH THE COBALT CHROME HEAD; IMPLANTED THE PT. THE HIP WAS THEN SUCCESSFULLY REDUCED AND THE SURGERY WAS COMPLETED SUCCESSFULLY.

...TIME OF MFG. (B)(4) LINERS BELONGING TO THIS LOT HAVE BEEN IMPLANTED AND NO INCIDENTS HAVE BEEN REPORTED UP TO NOW. COCR FEMORAL HEAD - REF 01.25.012 / LOT 102159 (B)(4): ALL PARAMETERS WERE FOUND TO BE CONFORMING TO... CRCO ...

### UNKNOWN HIP - Zimmer Biomet , 2015-11-19 , 5235657

INFORMATION WAS RECEIVED BASED ON REVIEW OF A JOURNAL ARTICLE TITLED, METAL ION LEVELS IN PATIENTS WITH MODULAR ACETABULAR HIP COMPONENTS, MATCHING CRCO LINERS WITH TITANIUM CUPS. THE JOURNAL ARTICLE AIMED TO EXAMINE METAL ION BLOOD LEVELS IN TOTAL HIP REPLACEMENT PATIENTS WHO RECEIVED TITANIUM ACETABULAR CUPS COUPLED WITH COCR ACETABULAR LINERS; AND TO INVESTIGATE THE INFLUENCE OF PARAMETERS INCLUDING AGE AND GENDER. THE STUDY CONSISTED OF THIRTY-NINE (39) PATIENTS WHO WERE IMPLANTED WITH TITANIUM ACETABULAR CUPS, COCR LINERS AND...

### COBALT CHROMIUM - Boston Scientific , 2008-07-01 , 1080860

BOSTON SCIENTIFIC CORP BECAME AWARE OF A REPORTABLE EVENT THAT WAS REPORTED AS INVOLVING 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT; HOWEVER, BOSTON SCIENTIFIC DOES NOT MFR 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT. AS REPORTED: IN 2007, MY HUSBAND HAD AN ANGIOPLASTY PERFORMED. THREE DAYS LATER, HE HAD A STENT IMPLANT. IT IS A STENT WITH 6-605 COBALT CHROMIUM ( COCR ) ALLOY. ACCORDING TO THE PATIENT'S GUIDE TO STENT IMPLANTATION BOOKLET IT STATES "PERSONS ALLERGIC TO L-605 COBALT CHROMIUM ( COCR ) ALLOW MAY SUFFER AN ALLERGIC REACTION TO THIS... COBALT

### UNKNOWN HIP - Zimmer Biomet , 2016-03-23 , 5521014

**Problem:** Material erosion

THE USER FACILITY IS OUTSIDE OF THE UNITED STATES. CURRENT INFORMATION IS INSUFFICIENT TO PERMIT CONCLUSIONS AS TO THE CAUSES OF THE EVENTS. EVENT DETAILS AND PRODUCT IDENTIFICATION WAS NOT PROVIDED FOR THE PATIENTS MENTIONED IN THE JOURNAL ARTICLE. BRAND NAME - UNKNOWN CERAMIC AND

# The Current State of Adverse Events



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## Record Type

per page

- 
- ☒ GUDID Record (43,659)
- ☒ Adverse Event Report (39,223)
- ☒ Recall (181)

## Report Type

- 
- ☒ Injury (36,022)
- ☒ Malfunction (2,441)
- ☒ Death (378)
- ☒ Other (280)
- ☒ blank (102)

## Report Source

- 
- ☒ Manufacturer report (38,611)
- ☒ Voluntary report (412)
- ☒ User Facility report (155)
- ☒ Distributor report (45)

Showing 1-25 of 83,073 in 0.357 seconds.



Search Preview

Chart (Beta)

### COBALT CHROMIUM - Boston Scientific , 2008-07-01 , 1080860

BOSTON SCIENTIFIC CORP BECAME AWARE OF A REPORTABLE EVENT THAT WAS REPORTED AS INVOLVING 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT; HOWEVER, BOSTON SCIENTIFIC DOES NOT MFR 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT. AS REPORTED: IN 2007, MY HUSBAND HAD AN ANGIOPLASTY PERFORMED. THREE DAYS LATER, HE HAD A STENT IMPLANT. IT IS A STENT WITH 6-605 COBALT CHROMIUM ( COCR ) ALLOY. ACCORDING TO THE PATIENT'S GUIDE TO STENT IMPLANTATION BOOKLET IT STATES "PERSONS ALLERGIC TO L-605 COBALT CHROMIUM ( COCR ) ALLOW MAY SUFFER AN ALLERGIC REACTION TO THIS... COBALT

### UNKNOWN HIP - Zimmer Biomet , 2016-03-23 , 5521014

**Problem:** Material erosion

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...: CERAMIC AND OXIDIZED ZIRCONIUM VS COBALT ...



## Company Name

☒ Check All ☐ Uncheck All

- ☒ Johnson & Johnson (27,255)
  - ☒ Biomet Orthopedics, Llc (6,492)
  - ☒ Zimmer Biomet (4,413)
  - ☒ Zimmer, Inc. (3,663)
  - ☒ Boston Scientific (3,359)
  - ☒ Globus Medical, Inc. (2,756)
  - ☒ Stryker (2,532)
  - ☒ Smith & Nephew, Inc. (2,500)
  - ☒ Microport Orthopedics ... (2,221)
  - ☒ Howmedica Osteonics Corp. (1,716)
  - ☒ Exactech, Inc. (1,532)
  - ☒ Encore Medical, L.p. (1,413)
  - ☒ Nuvasive, Inc. (1,338)
  - ☒ Smith & Nephew (1,031)
  - ☒ Stelkast Incorporated (868)
  - ☒ Aesculap Ag (733)
  - ☒ Wright Medical Technol... (730)
  - ☒ Ortho Development Corp... (680)
  - ☒ Corentec Co., Ltd (671)
  - ☒ Consensus Orthopedics,... (647)
- less...

PATIENT HAD ADVERSE LOCAL TISSUE REACTION. **COBALT** SERUM 3.2 **CHROMIUM** SERUM 0.5, **COBALT** ASPIRATE 1300 **CHROMIUM** ASPIRATE 770. PATIENT UNDERWENT POST PRIMARY LEFT HIP REVISION, EXCHANGED 40MM HEAD AND LINER FOR 36MM LINER AND BIOLOX HEAD.

...REGARDING ALTR INVOLVING A V40 **COCR** LFIT HEAD 40MM/+8 WAS REPORTED. THE EVENT WAS NOT CONFIRMED. DEVICE EVALUATION NOT PERFORMED AS NO DEVICE WAS RETURNED. A REVIEW OF THE PROVIDED MEDICAL RECORDS BY A CLINICAL CONSULTANT INDICATED. NO CERTAIN ROOT CAUSE OF FAILURE CAN BE ESTABLISHED FOR THIS CASE DUE...

### UNKNOWN HIP - Zimmer Biomet , 2015-11-19 , 5235657

...WAS RECEIVED BASED ON REVIEW OF A JOURNAL ARTICLE TITLED, ♦METAL ION LEVELS IN PATIENTS WITH MODULAR ACETABULAR HIP COMPONENTS, MATCHING CRCO LINERS WITH TITANIUM CUPS.♦ THE JOURNAL ARTICLE AIMED TO EXAMINE METAL ION BLOOD LEVELS IN TOTAL HIP REPLACEMENT PATIENTS WHO RECEIVED TITANIUM ACETABULAR CUPS COUPLED WITH **COCR** ACETABULAR LINERS; AND TO INVESTIGATE THE INFLUENCE OF PARAMETERS INCLUDING AGE AND GENDER. THE STUDY CONSISTED OF THIRTY-NINE (39) PATIENTS WHO WERE IMPLANTED WITH TITANIUM ACETABULAR CUPS, **COCR** LINERS AND MONOBLOCK STEMS...

### R3 - Smith & Nephew , 2014-06-11 , 3867453

PAIN, WEAKNESS OF THE LEGS AND HIPS, ELEVATED **COBALT** AND **CHROMIUM** LEVELS, FLUID ACCUMULATIONS AROUND THE HIP, TISSUE DAMAGE, NECROSIS AND EXPOSURE TO METAL DEBRIS REPORTED. IT WAS REPORTED THAT REVISION SURGERY WAS PERFORMED. THE PATIENT EXPERIENCED **COBALT** AND **CHROMIUM** LEVELS WHICH REPORTEDLY RESULTED IN A STROKE, PARALYSIS, AND BLOOD CLOTS.

TAPERLOC HIP FEMORAL STEM - Zimmer Biomet - 2009-09-01 - 1163416

## The Current State of Adverse Events



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# Reporter Occupation

- 
- ☒ OTHER (2,183,520)
  - ☒ PHYSICIAN (1,140,783)
  - ☒ PATIENT (800,191)
  - ☒ NOT APPLICABLE (361,295)
  - ☒ blank (355,333)
  - ☒ HEALTH PROFESSIONAL (271,612)
  - ☒ NURSE (212,994)
  - ☒ OTHER HEALTH CARE PROF... (211,762)
  - ☒ MEDICAL EQUIPMENT COMP... (210,626)
  - ☒ UNKNOWN (183,060)
  - ☒ BIOMEDICAL ENGINEER (161,707)
  - ☒ ATTORNEY (149,801)
  - ☒ RISK MANAGER (83,061)
  - ☒ LAY USER/PATIENT (46,603)
  - ☒ SERVICE AND TESTING PE... (35,801)
  - ☒ DENTIST (34,730)
  - ☒ PATIENT FAMILY MEMBER ... (32,191)
  - ☒ NO INFORMATION (27,752)
  - ☒ PHARMACIST (26,528)
  - ☒ MEDICAL TECHNOLOGIST (16,176)

## AUTO SUTURE POWERE MULTIFIRE ENDO GIA 60-3.5 - Medtronic , 1997-04-07 , 83210

DURING A THORACOSCOPIC BULLECTOMY PROCEDURE, THE INSTRUMENT DID NOT FIRE. THE SURGEON APPLIED ANOTHER DEVICE WITHOUT PT INJURY. 6/3/97-SUPPLEMENTAL REPORT #1 SUBMITTED TO FDA. DEVICE EVALUATION INDICATED AND CODES ENTERED IN H3 AND H6. THE STAPLE CARTRIDGE WAS NOT RETURNED FOR EVALUATION PREVENTING THE CO FROM RELIABLY DETERMINING THE EXACT CAUSE FOR THE DIFFICULTY REPORTED.

## RADIFOCUS GUIDEWIRE - Terumo Corporation, Ashitaka , 2016-09-14 , 5950066

THE ACTUAL DEVICE WAS NOT RETURNED TO THE MANUFACTURING FACILITY FOR EVALUATION. THE INVESTIGATION HAS YET TO BE COMPLETED. A FOLLOW UP REPORT WILL BE SUBMITTED WHEN THE INVESTIGATION IS COMPLETE BUT NO LATER THAN 30 DAYS FROM THE DATE THAT THIS REPORT WAS SENT. A REVIEW OF THE DEVICE HISTORY RECORD AND PRODUCT RELEASE DECISION CONTROL SHEET OF THE PRODUCT CODE/LOT# COMBINATION WAS CONDUCTED WITH NO RELEVANT FINDINGS. A SEARCH OF THE COMPLAINT FILE FOUND NO REPORT OF THIS NATURE WITH THE INVOLVED PRODUCT/LOT# COMBINATION. (B)(4). ALL...

## SPRINT QUATTRO SECURE - Medtronic , 2009-08-10 , 1433797

**Problem:** Oversensing

THIS EVENT OCCURRED OUTSIDE THE US WHERE THE SAME MODEL IS DISTRIBUTED. ALL INFORMATION PROVIDED IS INCLUDED IN THIS REPORT. IF ADDITIONAL RELEVANT INFORMATION IS RECEIVED, A SUPPLEMENTAL REPORT WILL BE SUBMITTED. PATIENT INFORMATION IS NOT GENERALLY AVAILABLE DUE TO CONFIDENTIALITY CONCERNS. IT WAS REPORTED THAT THERE WAS OVERSENSING, NOISE, AND INSULATION DAMAGE ASSUMED FOLLOWING AN X-RAY. THE LEAD WAS REPLACED. NO PATIENT COMPLICATIONS HAVE BEEN REPORTED AS A RESULT OF THIS EVENT, AND THE PATIENT'S STATUS WAS REPORTED AS "GOOD".

## INGENIO - Boston Scientific , 2016-07-26 , 5823939

ADDITIONAL INFORMATION HAS BEEN REQUESTED. THIS REPORT WILL BE UPDATED SHOULD FURTHER INFORMATION

# The Current State of Adverse Events



**DEVICE EVENTS**  
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Showing 1-25 of 8,078,755 in 3.500 seconds.

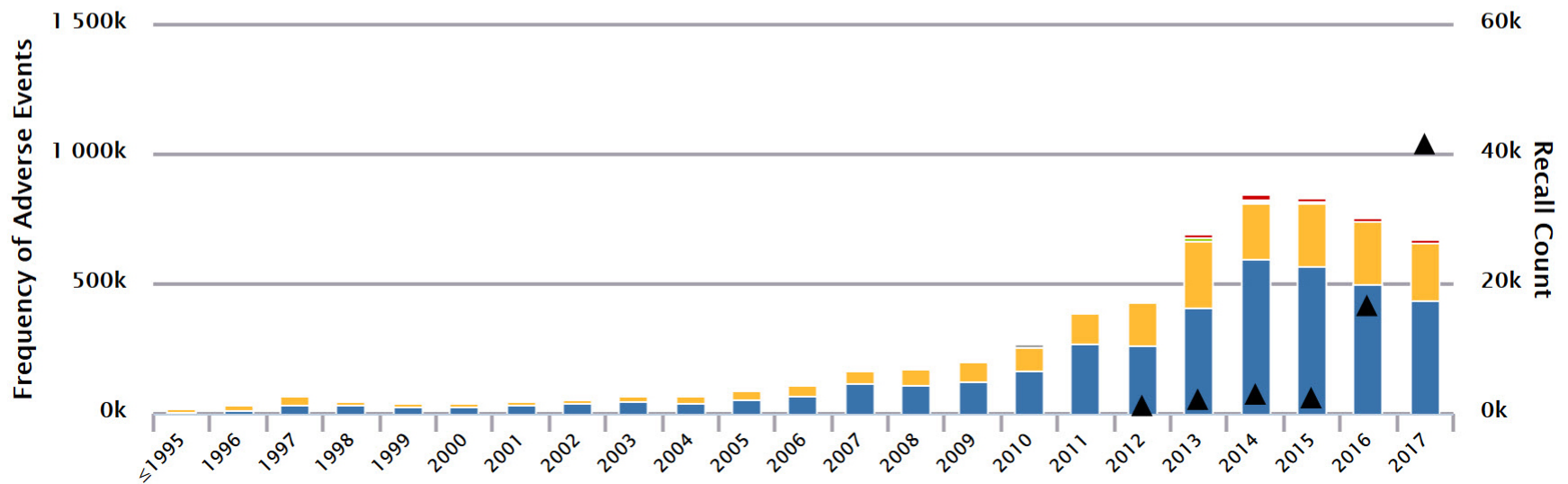


Search Preview

Chart (Beta)

Death Blank Other Injury Malfunction Recall

## ADVERSE EVENTS



# The Current State of Adverse Events



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## Search by Date

- ☐ Event Date
- ☐ Manufacturer Rec'd Date
- ☐ Report Date
- ☐ FDA Received Date

## Record Type

- 
- ☒ Adverse Event Report (215,908)
  - ☒ GUDID Record (3,384)
  - ☒ Recall (291)

## Report Type

- 
- ☒ Death (128,030)
  - ☒ Malfunction (44,890)
  - ☒ Injury (37,245)
  - ☒ Other (2,285)
  - ☒ blank (1,158)

## Report Source

- 
- ☒ Manufacturer report (205,245)
  - ☒ User Facility report (5,876)

☒ Use Critical Event Thesaurus (219,583)

Keywords

Show

First Previous 1 2 3 4 5 6 7 8 9 10 Next Last

25  
per page

Showing 1-25 of 219,583 in 2.157 seconds.



Search Preview

Chart (Beta)

DC BEAD - Biocompatibles Uk Ltd , 2016-02-25 , 5459677

THE **PATIENT DIED** BY LIFE [ **DEATH** ]. DC BEADS WERE OBSERVED IN TESTES. [PROCEDURAL COMPLICATION] . CASE DESCRIPTION: INITIAL INFORMATION RECEIVED ON (B)(6) 2016: THIS SPONTANEOUS MEDICAL DEVICE CASE WAS RECEIVED FROM A PHYSICIAN VIA THE COMPANY DISTRIBUTOR CONCERNING MALE PATIENT OF AN UNSPECIFIED AGE. THE PATIENT'S MEDICAL HISTORY... ..RECEIVED DC BEAD (DOSE, LOT NUMBER AND EXPIRATION DATE UNKNOWN) AS TRANSCATHETER ARTERIAL CHEMOEMBOLIZATION (TACE) FOR MULTIPLE HEPATOCELLULAR CARCINOMA (HCC) ON AN UNKNOWN DATE. ON AN UNKNOWN DATE, THE **PATIENT**

HOMECHOICE - Baxter , 2014-01-08 , 3562955

IT WAS REPORTED THAT A PERITONEAL DIALYSIS (PD) PATIENT ( **PT**) **PASSED AWAY** . THE PT WAS HOSPITALIZED (DATE UNSPECIFIED) PRIOR TO **DEATH** . DIANEAL THERAPY WAS ONGOING AT THE TIME THE **PATIENT EXPIRED** . ON AN UNREPORTED DATE, THE PT EXPERIENCED CHEST PAIN AND WAS SUBSEQUENTLY HOSPITALIZED. THE **PATIENT DIED** WHILE IN THE HOSPITAL. THE CAUSE OF **DEATH** WAS REPORTED BY THE PATIENT REPRESENTATIVE AS CARDIAC FAILURE BUT THIS WAS NOT CONFIRMED BY THE PERITONEAL DIALYSIS REGISTERED NURSE. AN **AUTOPSY** WAS NOT PERFORMED. ADDITIONAL INFORMATION WAS REQUESTED BUT...

# The Current State of Adverse Events



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## CIDEX OPA SOLUTION - Johnson & Johnson , 2009-01-20 , 2228319

**Problem:** Use of Device Issue

THE CUSTOMER ALLEGED THAT AFTER DISINFECTING AN OLYMPUS SCOPE WITH CIDEX OPA, A CULTURE FROM THE SCOPE TESTED **POSITIVE FOR (B)(6)**. THE CUSTOMER STATED THAT ONLY ONE SCOPE HAD TESTED **POSITIVE FOR (B)(6)** BUT THE FACILITY WILL BE TESTING ALL THE SCOPES. THE CUSTOMER STATED THAT A PRE-CLEANING PROCEDURE WAS PERFORMED. THE CUSTOMER DID NOT KNOW THE COMPLETE SUBMERGE TIME IN THE CIDEX OPA SOLUTION. AN ASP PRODUCT SUPPORT SPECIALIST REVIEWED THE INSTRUCTION FOR USE (IFU) FOR... ..5 MINS. THE CUSTOMER STATED THE SCOPE THAT TESTED **POSITIVE FOR (B)(6)**...

## OLYMPUS EVIS EXERA BRONCOVIDEOSCOPE - Olympus , 2011-10-25 , 2317085

**Problem:** No Known Device Problem

THIS REPORT IS TO ADDRESS PT 4 OF 4 PTS ASSOCIATED WITH MICROORGANISM CONTAMINATION FOLLOWING BRONCHOSCOPY. OLYMPUS FOLLOWED UP WITH THE USER FACILITY TO OBTAIN ADD'L INFO REGARDING THE REPORT, AND WAS INFORMED THAT 1 OF 7 PTS TESTED **POSITIVE FOR (B)(6)** IN BAL SAMPLES AND 4 OF 7 PTS TESTED **POSITIVE FOR (B)(6)** IN SPUTUM CULTURES. THREE PTS DIAGNOSED WITH (B)(6) DID NOT UNDERGO BRONCHOSCOPY. THE PT IN THIS REPORT WAS SAID TO HAVE UNDERGONE DIAGNOSTIC BRONCHOSCOPY. THE PT'S BAL WASHINGS TESTED **POSITIVE FOR (B)(6)** WAS **POSITIVE FOR (B)(6)**. THE PT...




# The Current State of Adverse Events



**DEVICE EVENTS™**  
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## Device Name

☒ Check All ☐ Uncheck All

- ☒ Set, Administration, F... (909)
- ☒ System, Peritoneal, Au... (489)
- ☒ Pump, Infusion, Insulin (411)
- ☒ Controller, Temperatur... (374)
- ☒ Dialyzer, High Permeab... (374)
- ☒ Bronchoscope (Flexible... (329) 
- ☒ Ventricular (Assisst) ... (312)
- ☒ Duodenoscope And Acces... (245) 
- ☒ Colonoscope And Access... (232) 
- ☒ Coronary Drug-Eluting ... (168)
- ☒ System, Test, Automate... (167)
- ☒ Accessories, Soft Lens... (136)
- ☒ Analyzer, Chemistry (P... (124)
- ☒ Stimulator, Spinal-Cor... (109)
- ☒ Device, Hemostasis, Va... (106)
- ☒ Stimulator, Autonomic ... (91)
- ☒ Mesh, Surgical, Polymeric (76)
- ☒ blank (75)
- ☒ Stimulator, Spinal-Cor... (72)
- ☒ Replacement Heart-Valve (60)
- less...

### SORIN HEATER-COOLER SYSTEM 3T - LivaNova , 2015-12-01 , 5256348

**Problem:** Bacterial contamination of device

SORIN GROUP (B)(4) RECEIVED A REPORT THAT THE SORIN HEATER-COOLER SYSTEM 3T TESTED **POSITIVE FOR** MULTIPLE TYPES OF BACTERIA. THIS ISSUE WAS DISCOVERED DURING MAINTENANCE, SO THERE IS NO KNOWN PATIENT INVOLVEMENT.

...THIS MEDWATCH REPORT IS BEING FILED ON BEHALF OF SORIN GROUP (B)(4). SORIN GROUP (B)(4) RECEIVED A REPORT THAT THE SORIN HEATER-COOLER SYSTEM 3T TESTED **POSITIVE FOR** MULTIPLE TYPES OF BACTERIA. THIS ISSUE WAS DISCOVERED DURING MAINTENANCE, SO THERE IS NO KNOWN PATIENT INVOLVEMENT. A REVIEW OF THE DHR COULD NOT IDENTIFY ANY...

### HEARTMATE II LVAS - St. Jude , 2016-07-11 , 5784527

...VENTRICULAR ASSIST DEVICE (LVAD) ON (B)(6) 2011. IT WAS REPORTED THAT ON (B)(6) 2016, THE PATIENT PRESENTED TO THE EMERGENCY DEPARTMENT WITH COMPLAINT OF EPISTAXIS, LIGHTHEADEDNESS, GENERALIZED MALAISE, FATIGUE, CHEST PAIN, HEADACHE, FEVER, CHILLS, AND VOMITING. URINE CULTURES WERE **POSITIVE FOR** ESCHERICHIA COLI AND BLOOD CULTURES WERE **POSITIVE FOR** STAPHYLOCOCCUS. THE BACTEREMIA WAS REPORTED TO BE ASSOCIATED WITH AN LVAD RELATED CHRONIC INFECTION. THE PATIENT WAS ALSO EXPERIENCING A GASTROINTESTINAL BLEED. THE PATIENT WAS ADMITTED AND...

### EVIS EXERA II ULTRASONIC **BRONCHOFIBERVIDEOSCOPE** Olympus , 2016-03-30 , 5536858

**Problem:** Fungus in device environment

...FACILITY TO OBSERVE THEIR REPROCESSING PRACTICES. ESS VISITED THE FACILITY ON (B)(6) 2016 TO REVIEW THE REPROCESSING STEPS AND FOUND NO DEVIATIONS TO THE REPROCESSING PROCEDURE. DURING THE IN-SERVICE VISIT, IT WAS FOUND THAT ONE OF THE SINKS IN THE ENDOSCOPY ROOM HAD TESTED **POSITIVE FOR** AN UNSPECIFIED FUNGUS. ESS AND A FIELD SERVICE ENGINEER (FSE) OBSERVED THAT THE RINSE WATER PRE FILTER

# The Current State of Adverse Events





## Report Type

☐ Check All ☐ Uncheck All

- ☒ Injury (36,022)
- ☒ Malfunction (2,441)
- ☒ Death (378)
- ☒ Other (280)
- ☒ blank (102)

## Report Source

☐ Check All ☐ Uncheck All

- ☒ Manufacturer report (38,611)
- ☒ Voluntary report (412)
- ☒ User Facility report (155)
- ☒ Distributor report (45)

## Reporter Occupation

☐ Check All ☐ Uncheck All

- ☒ ATTORNEY (18,605)
- ☒ PHYSICIAN (9,999)
- ☒ OTHER (6,535)
- ☒ PATIENT (1,446)
- ☒ HEALTH PROFESSIONAL (863)
- ☒ NOT APPLICABLE (435)
- ☒ blank (266)
- ☒ SERVICE PERSONNEL (221)
- ☒ UNKNOWN (197)

BOSTON SCIENTIFIC CORP BECAME AWARE OF A REPORTABLE EVENT THAT WAS REPORTED AS INVOLVING 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT; HOWEVER, BOSTON SCIENTIFIC DOES NOT MFR 6-605 COBALT CHROMIUM ( COCR ) ALLOY STENT. AS REPORTED: IN 2007, MY HUSBAND HAD AN ANGIOPLASTY PERFORMED. THREE DAYS LATER, HE HAD A STENT IMPLANT. IT IS A STENT WITH 6-605 COBALT CHROMIUM ( COCR ) ALLOY. ACCORDING TO THE PATIENT'S GUIDE TO STENT IMPLANTATION BOOKLET IT STATES "PERSONS ALLERGIC TO L-605 COBALT CHROMIUM ( COCR ) ALLOW MAY SUFFER AN ALLERGIC REACTION TO THIS... COBALT

### UNKNOWN HIP - Zimmer Biomet , 2016-03-23 , 5521014

**Problem:** Material erosion

THE USER FACILITY IS OUTSIDE OF THE UNITED STATES. CURRENT INFORMATION IS INSUFFICIENT TO PERMIT CONCLUSIONS AS TO THE CAUSES OF THE EVENTS. EVENT DETAILS AND PRODUCT IDENTIFICATION WAS NOT PROVIDED FOR THE PATIENTS MENTIONED IN THE JOURNAL ARTICLE. BRAND NAME - UNKNOWN CERAMIC AND COBALT - CHROMIUM HEADS. INITIAL REPORTER NAME - THIS ARTICLE WAS WRITTEN BY SOK CHUEN TAN, ADRIAN C.K. LAU, CHRISTOPHER DEL BALSO, JAMES L. HOWARD, BRENT A. LANTING, AND MATTHEW G. TEETER. DEVICE LOCATION UNKNOWN.  
...: CERAMIC AND OXIDIZED ZIRCONIUM VS COBALT ...

### R3 COCR LINER - Smith & Nephew , 2016-04-13 , 5573436

IT WAS REPORTED THAT RIGHT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.  
IT WAS REPORTED THAT RIGHT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.

### R3 COCR LINER - Smith & Nephew , 2016-04-14 , 5576549

IT WAS REPORTED THAT LEFT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM LEVELS.  
IT WAS REPORTED THAT LEFT HIP REVISION SURGERY WAS PERFORMED DUE TO ELEVATED COBALT AND CHROMIUM

# The Current State of Adverse Events



DEVICE EVENTS™  
MASTERING MEDICAL DEVICE DATA

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## Search by Date

- ☐ Event Date
- ☐ Manufacturer Rec'd Date
- ☐ Report Date
- ☐ FDA Received Date

## Record Type

- 
- ☒ Adverse Event Report (215,908)
  - ☒ GUDID Record (3,384)
  - ☒ Recall (291)

## Report Type

- 
- ☒ Death (128,030)
  - ☒ Malfunction (44,890)
  - ☒ Injury (39,545)
  - ☒ Other (2,285)
  - ☒ blank (1,158)

## Report Source

- 
- ☒ Manufacturer report (205,245)
  - ☒ User Facility report (5,876)

☒ Use Critical Event Thesaurus (219,583)

First Previous **1** 2 3 4 5 6 7 8 9 10 Next Last

25 per page

Showing 1-25 of 219,583 in 2.157 seconds.

### DC BEAD - Biocompatibles Uk Ltd , 2016-02-25 , 5459677

THE **PATIENT DIED** BY LIFE [ **DEATH** ]. DC BEADS WERE OBSERVED IN TESTES. [PROCEDURAL COMPLICATION] . CASE DESCRIPTION: INITIAL INFORMATION RECEIVED ON (B)(6) 2016: THIS SPONTANEOUS MEDICAL DEVICE CASE WAS RECEIVED FROM A PHYSICIAN VIA THE COMPANY DISTRIBUTOR CONCERNING MALE PATIENT OF AN UNSPECIFIED AGE. THE PATIENT'S MEDICAL HISTORY... ..RECEIVED DC BEAD (DOSE, LOT NUMBER AND EXPIRATION DATE UNKNOWN) AS TRANSCATHETER ARTERIAL CHEMOEMBOLIZATION (TACE) FOR MULTIPLE HEPATOCELLULAR CARCINOMA (HCC) ON AN UNKNOWN DATE. ON AN UNKNOWN DATE, THE **PATIENT**

### HOMECHOICE - Baxter , 2014-01-08 , 3562955

IT WAS REPORTED THAT A PERITONEAL DIALYSIS (PD) PATIENT ( **PT**) **PASSED AWAY** . THE PT WAS HOSPITALIZED (DATE UNSPECIFIED) PRIOR TO **DEATH** . DIANEAL THERAPY WAS ONGOING AT THE TIME THE **PATIENT EXPIRED** . ON AN UNREPORTED DATE, THE PT EXPERIENCED CHEST PAIN AND WAS SUBSEQUENTLY HOSPITALIZED. THE **PATIENT DIED** WHILE IN THE HOSPITAL. THE CAUSE OF **DEATH** WAS REPORTED BY THE PATIENT REPRESENTATIVE AS CARDIAC FAILURE BUT THIS WAS NOT CONFIRMED BY THE PERITONEAL DIALYSIS REGISTERED NURSE. AN **AUTOPSY** WAS NOT PERFORMED. ADDITIONAL INFORMATION WAS REQUESTED BUT...

# The Current State of Adverse Events



**DEVICE EVENTS**  
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## Record Type

- ☒ Adverse Event Report (6,591,307)
- ☒ GUDID Record (1,419,978)
- ☒ Recall (67,470)

## Report Type

- ☒ Malfunction (4,123,403)
- ☒ Injury (2,183,714)
- ☒ Death (128,422)
- ☒ Other (100,383)
- ☒ blank (55,385)

## Report Source

- ☒ Manufacturer report (6,344,293)
- ☒ Voluntary report (106,405)

Showing 1-25 of 8,078,755 in 3.500 seconds.

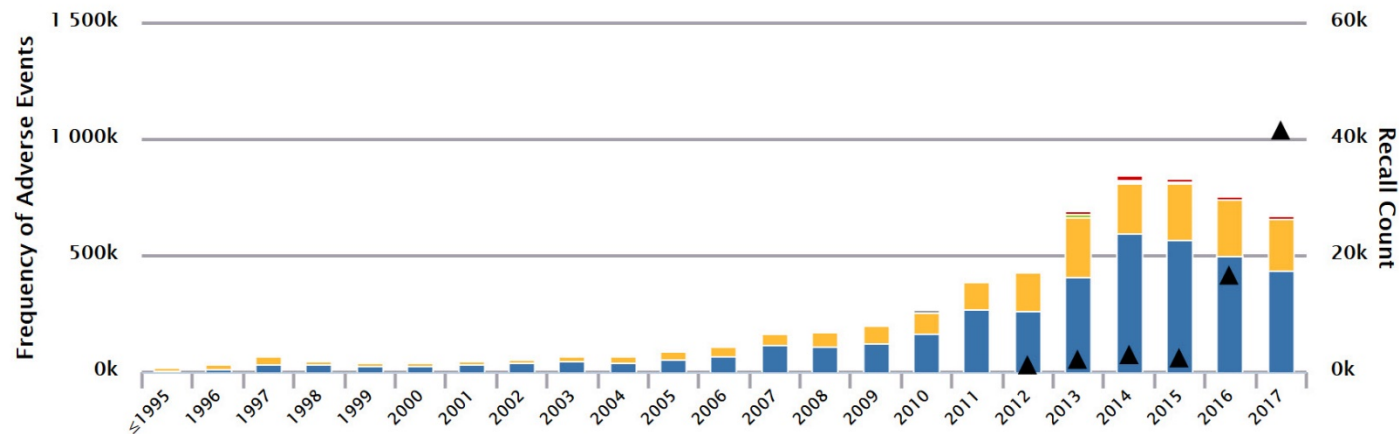


[Search Preview](#)

[Chart \(Beta\)](#)

☒ Death ☒ Blank ☒ Other ☒ Injury ☒ Malfunction ☒ Recall

### ADVERSE EVENTS



# The Current State of Adverse Events






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## Device Name

☐ Check All ☐ Uncheck All

- ☒ Set, Administration, F... (909)
- ☒ System, Peritoneal, Au... (489)
- ☒ Pump, Infusion, Insulin (411)
- ☒ Controller, Temperatur... (374)
- ☒ Dialyzer, High Permeab... (374)
- ☒ Bronchoscope (Flexible... (329) 
- ☒ Ventricular (Assisst) ... (312)
- ☒ Duodenoscope And Acces... (245) 
- ☒ Colonoscope And Access... (232) 
- ☒ Coronary Drug-Eluting ... (168)
- ☒ System, Test, Automate... (167)
- ☒ Accessories, Soft Lens... (136)
- ☒ Analyzer, Chemistry (P... (124)
- ☒ Stimulator, Spinal-Cor... (109)
- ☒ Device, Hemostasis, Va... (106)
- ☒ Stimulator, Autonomic ... (91)
- ☒ Mesh, Surgical, Polymeric (76)
- ☒ blank (75)
- ☒ Stimulator, Spinal-Cor... (72)
- ☒ Replacement Heart-Valve (60)
- less...

### SORIN HEATER-COOLER SYSTEM 3T - LivaNova , 2015-12-01 , 5256348

**Problem:** Bacterial contamination of device

SORIN GROUP (B)(4) RECEIVED A REPORT THAT THE SORIN HEATER-COOLER SYSTEM 3T TESTED **POSITIVE FOR** MULTIPLE TYPES OF BACTERIA. THIS ISSUE WAS DISCOVERED DURING MAINTENANCE, SO THERE IS NO KNOWN PATIENT INVOLVEMENT.

...THIS MEDWATCH REPORT IS BEING FILED ON BEHALF OF SORIN GROUP (B)(4). SORIN GROUP (B)(4) RECEIVED A REPORT THAT THE SORIN HEATER-COOLER SYSTEM 3T TESTED **POSITIVE FOR** MULTIPLE TYPES OF BACTERIA. THIS ISSUE WAS DISCOVERED DURING MAINTENANCE, SO THERE IS NO KNOWN PATIENT INVOLVEMENT. A REVIEW OF THE DHR COULD NOT IDENTIFY ANY...

### HEARTMATE II LVAS - St. Jude , 2016-07-11 , 5784527

...VENTRICULAR ASSIST DEVICE (LVAD) ON (B)(6) 2011. IT WAS REPORTED THAT ON (B)(6) 2016, THE PATIENT PRESENTED TO THE EMERGENCY DEPARTMENT WITH COMPLAINT OF EPISTAXIS, LIGHTHEADEDNESS, GENERALIZED MALAISE, FATIGUE, CHEST PAIN, HEADACHE, FEVER, CHILLS, AND VOMITING. URINE CULTURES WERE **POSITIVE FOR** ESCHERICHIA COLI AND BLOOD CULTURES WERE **POSITIVE FOR** STAPHYLOCOCCUS. THE BACTEREMIA WAS REPORTED TO BE ASSOCIATED WITH AN LVAD RELATED CHRONIC INFECTION. THE PATIENT WAS ALSO EXPERIENCING A GASTROINTESTINAL BLEED. THE PATIENT WAS ADMITTED AND...

### EVIS EXERA II ULTRASONIC **BRONCHOFIBERVIDEOSCOPE** Olympus , 2016-03-30 , 5536858

**Problem:** Fungus in device environment

...FACILITY TO OBSERVE THEIR REPROCESSING PRACTICES. ESS VISITED THE FACILITY ON (B)(6) 2016 TO REVIEW THE REPROCESSING STEPS AND FOUND NO DEVIATIONS TO THE REPROCESSING PROCEDURE. DURING THE IN-SERVICE VISIT, IT WAS FOUND THAT ONE OF THE SINKS IN THE ENDOSCOPY ROOM HAD TESTED **POSITIVE FOR** AN UNSPECIFIED FUNGUS. ESS AND A FIELD SERVICE ENGINEER (FSE) OBSERVED THAT THE PUR WATER PRE FILTER

## The Current State of Adverse Events






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- ☒ Coronary Drug-Eluting ... (168)
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## The Current State of Adverse Events



**DEVICE EVENTS**  
MASTERING MEDICAL DEVICE DATA

**Although duodenoscopes and heater-coolers have received the most attention by the media, peritoneal dialysis machines, bronchoscopes, colonoscopes and cystoscopes are also testing positive for drug resistant, dangerous bacteria.**

## Device Name

Check All

Uncheck All

- ☒ Bronchoscope (Flexible... (298)
- ☒ Duodenoscope And Acces... (197)
- ☒ Controller, Temperatur... (124)
- ☒ *blank* (56)
- ☒ Gastroscope And Access... (48)
- ☒ Colonoscope And Access... (43)
- ☒ Cystoscope And Accesso... (42)
- ☒ Set, Administration, F... (24)
- ☒ System, Peritoneal, Au... (19)
- ☒ Colonoscope, General &... (10)
- ☒ Dialyzer, High Permeab... (6)
- ☒ Laparoscope, General &... (4)
- ☒ Washer, Cleaner, Autom... (4)
- ☒ Endoscopic Ultrasound ... (3)
- ☒ Filler, Recombinant Hu... (2)
- ☒ Immunoassay Method, Tr... (2)
- ☒ Laryngoscope, Non-Rigid (2)
- ☒ System, Thermal Regula... (2)

## Patterns Across Device Types



DEVICE EVENTS™



**Scenario:** Your hospital is named in a lawsuit for use of a device.  
View when the device company knew of the issues.

### Report Type

- ☒ Injury (420)
- ☒ Malfunction (229)
- ☒ Other (95)
- ☒ Death (27)
- ☒ blank (13)

### Report Source

- ☒ Manufacturer report (749)
- ☒ Voluntary report (19)
- ☒ User Facility report (10)
- ☒ Distributor report (6)

### Reporter Occupation

- ☒ OTHER (260)
- ☒ PHYSICIAN (171)
- ☒ NURSE (111)
- ☒ RISK MANAGER (58)
- ☒ BIOMEDICAL ENGINEER (49)
- ☒ OTHER HEALTH CARE PROF... (46)

#### EVIS EXERA II DUODENOVideoscope - Olympus , 2015-11-02 , 5194240

**Problem:** Contamination during use

AFTER SUBMITTING MDR REPORTS ON 12 PATIENTS, OLYMPUS RECEIVED ADDITIONAL INFORMATION THAT A TOTAL OF 23 PATIENTS WERE INFECTED WITH (B)(6) AFTER UNDERGOING AN ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY (ERCP) PROCEDURE USING A TJF-Q180V BETWEEN (B)(6) 2015. THE FACILITY IS NOTIFYING AFFECTED PATIENTS. AN UNSPECIFIED NUMBER OF THESE PATIENTS EXPIRED. THE... ..ENDOSCOPES. THE USER FACILITY WAS USING AN ETD3 AUTOMATED ENDOSCOPE REPROCESSOR WITH PERIACETIC ACID DISINFECTANT SOLUTION. ORIGINALLY, OLYMPUS WAS INFORMED OF 12 PATIENT...

#### OLYMPUS TRACHEAL INTUBATION FIBERSCOPE - Olympus , 2010-06-03 , 1713291

**Problem:** No Information

OLYMPUS FOLLOWED UP WITH THE USER FACILITY REGARDING THIS REPORT. THE USERS REPORTED THE SAME BRONCHOSCOPE THAT WAS USED DURING THE BRONCHOSCOPY PROCEDURES WERE USED ON ALL SIX PATIENTS. THE BRONCHOSCOPE WAS REPORTED TO HAVE BEEN USED ON OTHER PATIENTS AROUND THE SAME TIME THE SIX PATIENTS UNDERWENT THE BRONCHOSCOPES... .. THE SUBJECT DEVICE WAS RETURNED TO OLYMPUS FOR EVAL. THE EVAL FOUND EVIDENCE OF RESIDUE AND DEBRIS INSIDE OF THE SUCTION PORT AND CHANNEL PIPE OF THE DEVICE. ADDITIONALLY, AN UNIDENTIFIED PURPLE STAIN WAS FOUND IN THE...

#### OLYMPUS - Olympus , 2003-03-04 , 446328

CALLER REPORTS CONCERN REGARDING STERILITY OF SCOPES. SCOPES WERE CULTURED AND CAME UP POSITIVE FOR BACTERIA, INCLUDING E. COLI AND DIPHTHEROIDS. CALLER SPOKE TO STERIS AND WAS TOLD TO HAVE CONNECTIONS REPLACED, RECULTURED AND SCOPES STILL POSITIVE FOR BACTERIA. CALLER ALSO CONCERNED THAT LITERATURE FROM OLYMPUS AND SEVERAL ORGANIZATIONS (IE APIC) DOES NOT

Search on Contaminations in  
Olympus scopes



DEVICE EVENTS™

# Searching for Contaminations

- Positive for b(6): 1083 reports
- Mycobacteria, NTM: 146 reports then; 1,077 now
- CRE, ESBL: 140 reports then; 302 now
- Pseudomonas, klebsiella: 324 reports then; 380 now
- Candida lipolytica: 31 reports then; 38 now
- MRSA: Critical Events

**Reports are redacted more often  
than they are not**



**DEVICE EVENTS™**



# Questions?



DEVICE EVENTS™

# Questions?



DEVICE EVENTS™