

TENIM TOT EL QUE NECESSITEM? DESPROVEÏMENT DE FÀRMACS

PERSPECTIVA D'UN SERVEI DE FARMÀCIA

Laura Villamarín Vallejo
Hospital de la Santa Creu i Sant Pau



CAUSES: Multifactorials

- Manca de matèria prima
- Discontinuació de la producció
- Canvis en el sistema de producció
- Demanda inesperada
- Altres: desastres naturals, vagues

*pocs fabricants
manca de redundància
processos de fabricació complexos
baix marge de benefici*

CONSEQÜÈNCIES:

- TOTS els pacients i professionals
- Eficàcia/Seguretat?!
- Impacte econòmic i RRHH
- NOUS DESABASTIMENTS

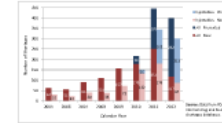
Proporcionar la teràpia més adient per a cada pacient



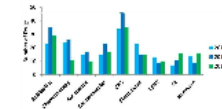
Fàrmacs necessaris
Teràpies segures
Tractaments eficaços/eficients

SITUACIÓ ACTUAL

EEUU: 20% dels fàrmacs injectables aprovats per la FDA estaven en situació de desabastiment al 2012



Common Drug Classes in Short Supply - 2010, 2011, 2012



ESpanya: 2 0 1 4

130 nous desproveïments
169 fàrmacs amb problemes actius

La nostra percepció...



2013
99% farmacèutics
63% incidència diària/setmana
77% empitjorament

64% dels fàrmacs en situació de desproveïment són fabricats per 3 o menys laboratoris. (EOR 2012)
>30% dels fàrmacs que s'importen com a ME -> ODD + D.TIC

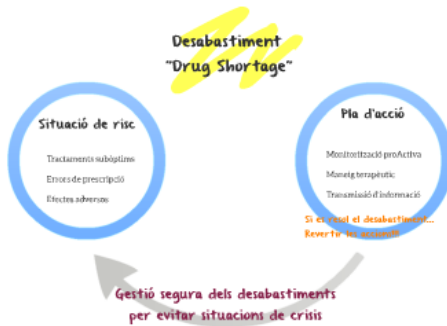
Monitorització pro-activa



Maneig terapèutic



Transmissió d'informació



MISSATGES PER EMPORTAR A CASA



Problema present a la pràctica diària
Afrontar la situació: SER PROACTIUS
Vigilar la SEGURETAT

TENIM TOT EL QUE NECESSEM?

DESPROVEÏMENT DE FÀRMACS

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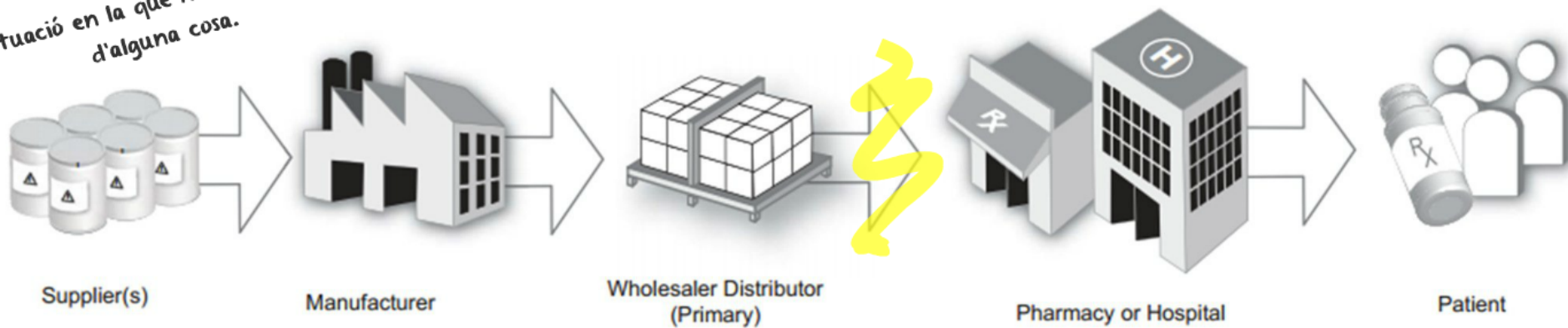
Fàrmacs necessaris
Teràpies segures
Tractaments eficaços/eficients

Desabastiment "Drug Shortage"

Situació en la que no tenim prou
d'alguna cosa.

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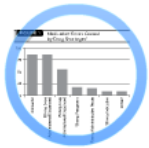
Impacte econòmic i RRHH

NOUS DESABASTIMENTS

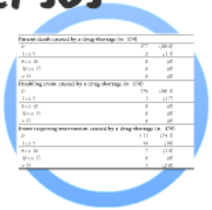
Effects on Patient Care Caused by Drug Shortages: A Survey

Milena McLaughlin, PharmD, MSc, BCPS, AAHIVP; Despina Kotis, PharmD, FASHP;
 Kenneth Thomson, BS, MBA; Michael Harrison, BS; Gary Fennessy, BS, MBA;
 Michael Postelnick, BS, BCPS AQ-ID; and Marc H. Scheetz, PharmD, MSc, BCPS AQ-ID

53% 1-10 Errors de medicació



41.1% 1-5 Efectes adversos

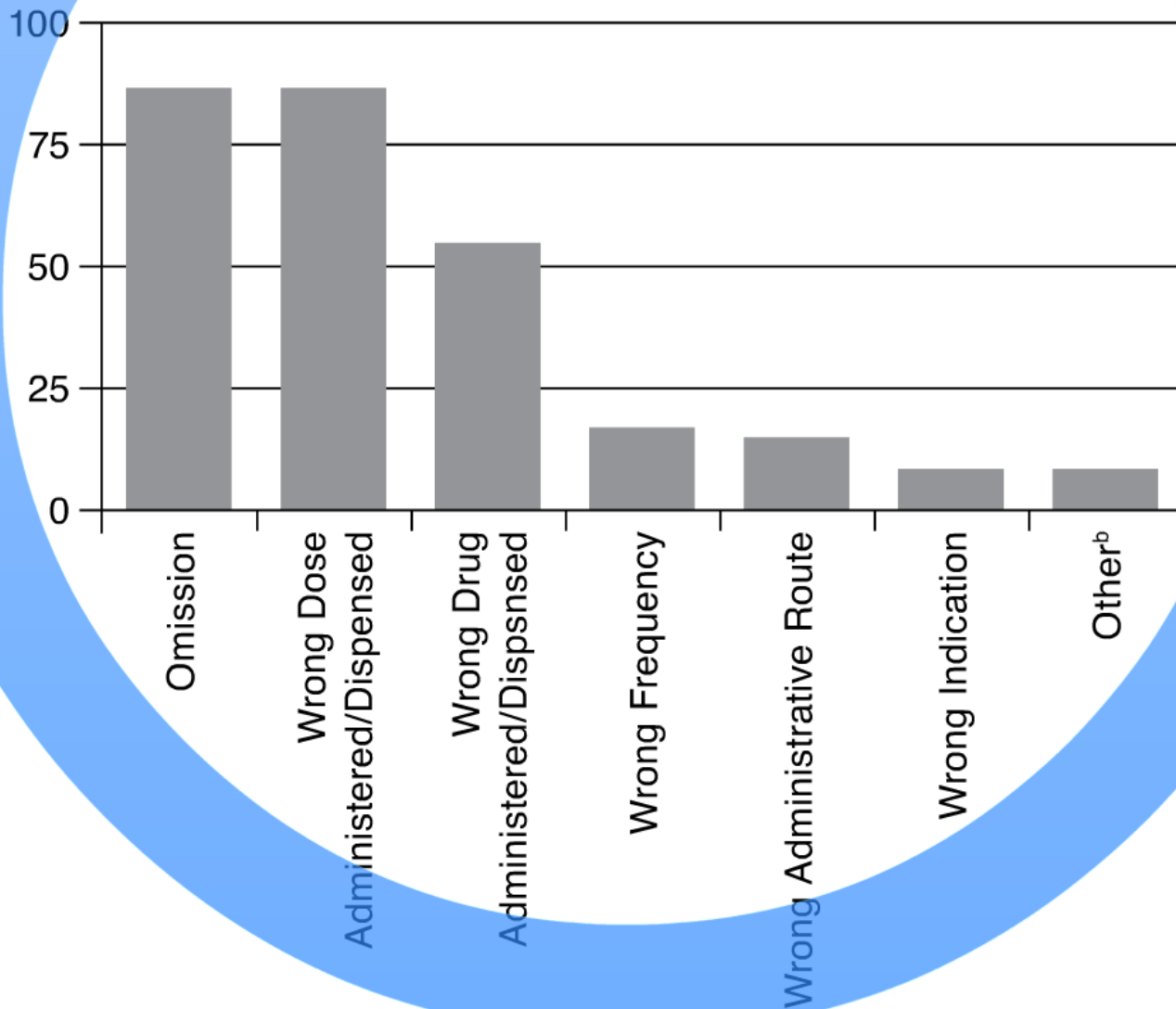


26.6% 0.6-1 Jornada de treball

Patient Outcome	Reports (N = 542 Individual Reports, 171 Respondents) (n, %)	
Alternative medication used	146	(85.3)
Delay of therapy	121	(70.8)
Increased patient monitoring necessary	84	(49.1)
Suboptimal treatment	83	(48.5)
Increased length of hospitalization	56	(32.7)
Treatment failure	27	(15.8)
Patient transferred to an institution with a supply of the needed medication	21	(12.3)
Re-admission caused by treatment failure	15	(8.8)
Death	2	(1.2)

FIGURE 1

Medication Errors Caused by Drug Shortages^a



Patient death caused by a drug shortage (n = 179)

0	177	(98.9)
1 to 5	2	(1.1)
6 to 10	0	(0)
10 to 15	0	(0)
> 15	0	(0)

Disabling event caused by a drug shortage (n = 179)

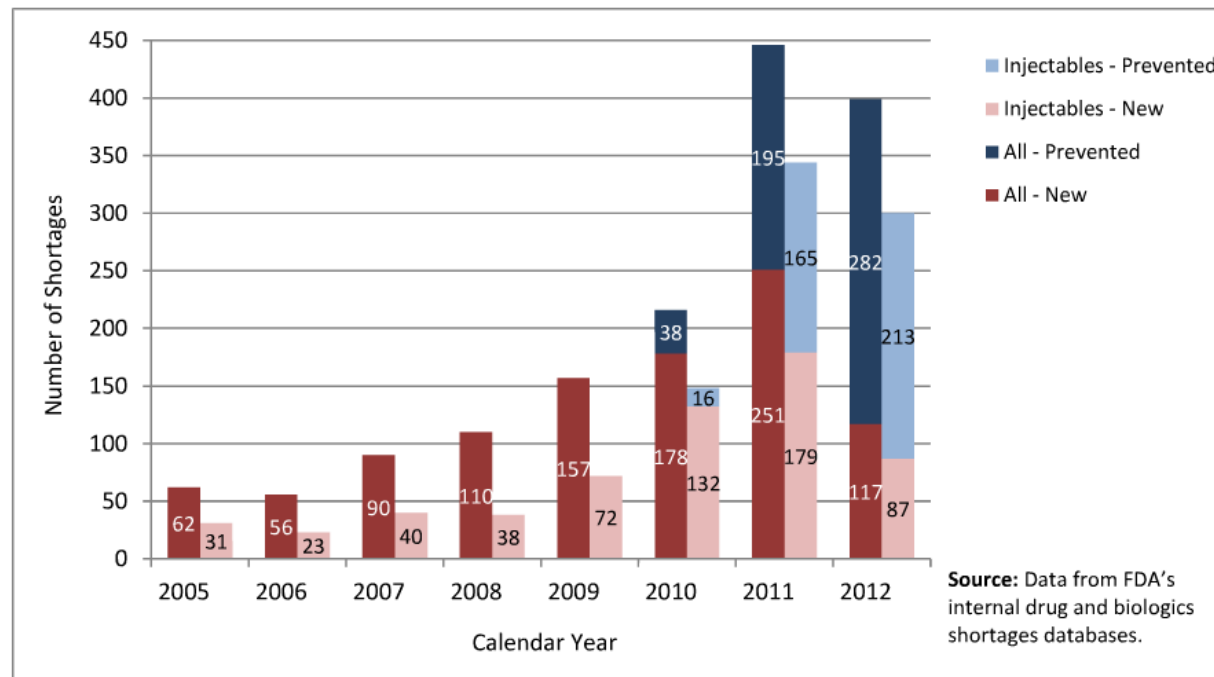
0	176	(98.3)
1 to 5	3	(1.7)
6 to 10	0	(0)
10 to 15	0	(0)
> 15	0	(0)

Event requiring intervention caused by a drug shortage (n = 179)

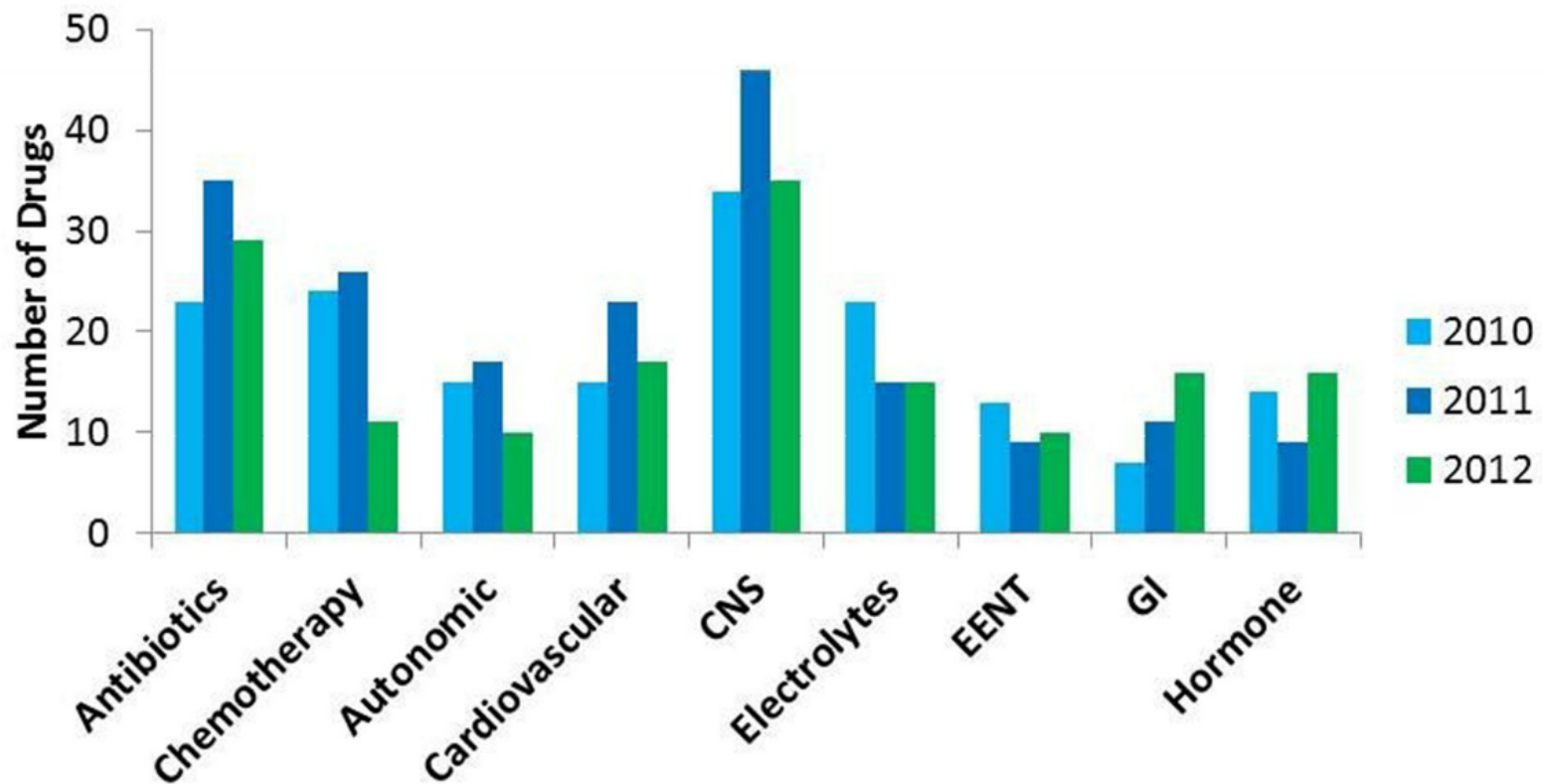
0	133	(74.3)
1 to 5	34	(19)
6 to 10	7	(3.9)
10 to 15	0	(0)
> 15	5	(2.8)

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2014

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Desabastiment "Drug Shortage"

Situació de risc

Tractaments subòptims
Errors de prescripció
Efectes adversos

Pla d'acció

Monitorització proActiva
Maneig terapèutic
Transmissió d'informació

Si es resol el desabastiment...
Revertir les accions!!!

Gestió segura dels desabastiments
per evitar situacions de crisi

Monitorització pro-activa

INFORMACIÓ ÚTIL

- Fàrmacs afectats- Descripció
- Causa del desabastiment
- Dates estimades de resolució
- Fàrmacs disponibles
- Alternatives
- Referències

i actualitzada

FONTS D'INFORMACIÓ



AEMPS -> "notas informativas"
"Listado de fármacos con problemas de suministro"

EMA Plan to help with manufacturing-related medicine shortages
http://www.ema.europa.eu/ema/index.jsp?curl=pages/news_and_events/news/2012/11/news_detail_001663.jsp&mid=WC0b01ac058004d5c1

FDA Drug shortages
<http://www.fda.gov/Drugs/drugsafety/DrugShortages/default.htm>

ASH D Shortage Resource Center
<http://www.ashp.org/drugshortages>

Canadian Drug Shortages
<http://www.drugshortages.ca/drugshortages.asp>

CDC Vaccine Shortage and Delays Website
<http://www.cdc.gov/VACCINES/vac-gen/shortages/default.htm>

Comité de Medicamentos de la AEPED
<http://www.aeped.es/comite-medicamentos>



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CDC Vaccine Shortage and Delays Website
<http://www.cdc.gov/VACCINES/vac-gen/shortages/default.htm>

Comité de Medicamentos de la AEPED
<http://www.aeped.es/comite-medicamentos>

La AEMPS

Medicamentos de uso humano


Medicamentos veterinarios

Productos sanitarios

Cosméticos e higiene

Industria

Portada

CIMA: Centro de Información Online de Medicamentos de la AEMPS 

Observatorio de uso de medicamentos

Medicamentos no sustituibles

Farmacovigilancia

Investigación clínica con medicamentos

Notas informativas

Notas de seguridad

Alertas

Medicamentos ilegales

Problemas de suministro de medicamentos

Acceso a medicamentos en situaciones especiales

Inicio > Medicamentos de uso humano

Portada

Última actualización: 14/02/2014



[CIMA: Centro de Información Online de Medicamentos de la AEMPS](#)



[Observatorio de uso de medicamentos](#)



[Medicamentos no sustituibles](#)



[Farmacovigilancia](#)



[Investigación clínica con medicamentos](#)



[Notas informativas](#)



[Notas de seguridad](#)



[Alertas](#)



[Medicamentos ilegales](#)

LISTADO DE MEDICAMENTOS CON PROBLEMAS DE SUMINISTRO A FECHA 02/05/2014

Código Nacional	Nombre del formato del medicamento	Titular de autorización de comercialización	Fecha prevista de inicio	Fecha prevista de finalización	Observaciones
<u>679779</u>	MELFALAN ASPEN INYECTABLE, 1 vial + 1 vial de disolvente	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>779470</u>	LEUKERAN 2 mg, 50 comprimidos	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>917591</u>	MERCAPTOPURINA ASPEN 50 MG COMPRIMIDOS , 25 comprimidos	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>836106</u>	TIOGUANINA ASPEN 40 MG COMPRIMIDOS , 25 comprimidos	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>917575</u>	BUSULFANO ASPEN 2 mg COMPRIMIDOS RECUBIERTOS, 100 comprimidos	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>941476</u>	MELFALAN ASPEN 2 mg, 50 comprimidos	ASPEN PHARMA TRADING LTD	30/04/2014	-	Se puede solicitar como medicamento extranjero.
<u>975011</u>	METOTREXATO WYETH 5 g SOLUCION INYECTABLE, 1 vial de 200 ml	WYETH FARMA, S.A.	29/04/2014	09/06/2014	Existe otro medicamento con el mismo principio activo y para la misma vía de administración.
<u>660265</u>	LORAZEPAM KERN PHARMA 1 mg COMPRIMIDOS EFG , 50 comprimidos	KERN PHARMA, S.L.	25/04/2014	07/05/2014	Existen otros medicamentos con el mismo principios activo y para la misma vía de administración
<u>826479</u>	SPASMO-URGENIN COMPRIMIDOS RECUBIERTOS , 40 comprimidos	ROTTAPHARM, S.L.	25/04/2014	19/05/2014	



SEARCH

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- [Drugs](#)
- [Medical Devices](#)
- [Radiation-Emitting Products](#)
- [Vaccines, Blood & Biologics](#)
- [Animal & Veterinary](#)
- [Cosmetics](#)
- [Tobacco Products](#)

Drugs

- Home
- Drugs
- Drug Safety and Availability
- Drug Shortages



Drug Safety and Availability

Drug Shortages

[Current Drug Shortages Index](#)

[Current Drug Shortages A - D](#)

[Current Drug Shortages E - K](#)

[Current Drug Shortages L - N](#)

[Current Drug Shortages O - R](#)

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[Drug Shortages: Additional News and Information](#)

[Resolved Drug Shortages](#)

[Drugs to be Discontinued](#)

[How to Report a Shortage or Supply Issue](#)

[Frequently Asked Questions About Drug Shortages](#)

Current Drug Shortages O - R

Ondansetron (Zofran) Injection

Company	Product	Availability and Estimated Shortage Duration	Related Information	Shortage Reason (per New Legislation-FDASIA)*	Date Updated
Fresenius Kabi, USA (Formerly APP Pharmaceuticals, LLC) 1-888-386-1300	4 mg; 2 mL (NDC 63323-0373-02)	Available Check wholesalers for inventory.	APP currently has both presentations of Ondansetron available. Please check wholesalers for inventory.	Demand increase for the drug.	Reverified 4/22/2014
	40 mg; 20 mL (NDC 63323-0374-20)	Available Check wholesalers for inventory.	Shortage per Manufacturer: Increased demand		
Bedford Customer Service: 1-800-562-4797	20 mL vial (NDC 55390-0121-01)	Unavailable	Shortage: Pending Manufacturing Change or Addition. Availability of products are updated on the Bedford Laboratories website	Other	Reverified 4/21/2014



Drugs

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Drug Shortages: Additional News and Information

Drug Safety and Availability

Drug Shortages

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[Drugs to be Discontinued](#)

[How to Report a Shortage or Supply Issue](#)

[Frequently Asked Questions About Drug Shortages](#)

Drug Name	Company Information	Related Information
Doxil 2 mg/mL, 10 mL (20 mg) vial (NDC 59676-0960-01)	Janssen Products, LP 1-800-526-7736 (1-800-JANSSEN)	Release of Lot# 1211158 Dear Healthcare Professional Letter (PDF - 85KB)
Voraxaze (1 vial carton) NDC# 50633-210-11	BTG International Inc. Contact number: 610-943-3583	Extension of expiry dating for Lot# 2162-104A Dear Customer Letter (PDF - 128KB)



Drug Shortages

- > Current Shortages
- > Drugs No Longer Available
- > No Commercially Available Preparations
- > Resolved Shortages
- > Guidelines and Resources
- > Report a Drug Shortage

Drug Shortages: Current Drugs

ASHP and its partners work to keep the public informed of the most current drug shortages. Shortages can adversely affect drug therapy, compromise or delay medical procedures, and result in medication errors.

Current Drug Shortage Bulletins

Sort by: [Generic Name](#) | [Revision Date](#)

[RSS Learn About RSS](#)

Generic Name	Revision Date
Acetazolamide Injection	Mar 17, 2013
Acetylcysteine Inhalation Solution	May 07, 2014
Acyclovir Suspension	May 08, 2014
Acyclovir Injection	May 08, 2014
Adenosine Injection	May 15, 2014
Alcohol Dehydrated Injection (Ethanol)	May 12, 2014

ADVOCACY ACTIVITY

Get the latest updates on ASHP's advocacy activity on drug shortages.

> [View advocacy activity](#)

Advertisement

ASHP 2014 Summer Meetings

ASHP Informatics Institute

MEDICATION SAFETY COLLABORATIVE



CANADIAN DRUG SHORTAGE DATABASE

SEARCH

[ADVANCED SEARCH](#)



[HOME](#) [OVERVIEW](#) [DRUG SHORTAGES RECORDS](#) [RESOLVED DRUG SHORTAGES](#) [DISCONTINUED DRUGS](#) [FRANÇAIS](#)

Drug Shortages

10 ▼ RECORDS PER PAGE

Product Name	Drug Name	Company Name	Start Date	Last Modified ▼
FORTAZ - INJ 2G/VIAL	CEFTAZIDIME (CEFTAZIDIME PENTAHYDRATE)	GlaxoSmithKline Inc.	April 24, 2014	April 29, 2014
FRAXIPARINE FORTE	NADROPARIN CALCIUM	GlaxoSmithKline Inc.	March 27, 2014	April 29, 2014
AZATHIOPRINE	AZATHIOPRINE	Sanis Health Inc.	April 29, 2014	April 29, 2014
ACYCLOVIR	ACYCLOVIR	Sanis Health Inc.	April 29, 2014	April 29, 2014
ACYCLOVIR	ACYCLOVIR	Sanis Health Inc.	April 29, 2014	April 29, 2014
ACYCLOVIR	ACYCLOVIR	Sanis Health Inc.	April 29, 2014	April 29, 2014
CILAZAPRIL	CILAZAPRIL (CILAZAPRIL MONOHYDRATE)	Sanis Health Inc.	April 29, 2014	April 29, 2014



Vaccines and Immunizations



Vaccines and Immunizations Home

Immunization Schedules

Recommendations and Guidelines

Vaccines & Preventable Diseases

Vaccine Shortages & Delays

Potential New Vaccines

Vaccines: The Basics

FAQ about Vaccines & Diseases they Prevent

Basics and Common Questions

Vaccination Records

Vaccine Safety and Adverse Events

For Travelers

For Specific Groups of People

[Vaccines and Immunizations Home](#) > [Vaccines & Preventable Diseases](#)

Recommend 8 Tweet 1 Share

Current Vaccine Shortages & Delays

Last Updated March 18, 2014

This web page contains the latest national information about vaccine supplies and provides guidance to healthcare providers who are facing vaccine shortages or delays.

***Note:** Only those vaccines included on the recommended childhood and adolescent immunization schedule are included in this update.

Chart of Vaccines* in Delay or Shortage

Vaccines are listed in order used for the Childhood and Adolescent Immunization Schedule.

On this Page

- [Chart of vaccines in delay or shortage](#)
- [Why were there shortages?](#)
- [Who can answer my questions?](#)
- [How often will this information be updated?](#)
- [Acronyms and abbreviations](#)
- [Related information](#)
- [Other shortages & delays](#)

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Contact Us:

Centers for Disease Control and Prevention
1600 Clifton Rd
Atlanta, GA 30333
 800-CDC-INFO
(800-232-4636)
TTY: (888) 232-6348
[Contact CDC-INFO](#)



Documentos



Informe sobre el desabastecimiento temporal de Fortecortin® comprimidos

Informe sobre el desabastecimiento temporal de Buccolam® solución oral



Desabastecimiento temporal de cefixima en solución oral: alternativas para el tratamiento de la pielonefritis y cistitis en niños

Varios

OPORTUNIDAD EDUCATIVA
El Comité de Pediatría de la Asociación Española de Pediatría (AEP) ha publicado el informe sobre el desabastecimiento temporal de Fortecortin® comprimidos.

OPORTUNIDAD EDUCATIVA
El Comité de Pediatría de la Asociación Española de Pediatría (AEP) ha publicado el informe sobre el desabastecimiento temporal de Buccolam® solución oral.

OPORTUNIDAD EDUCATIVA
El Comité de Pediatría de la Asociación Española de Pediatría (AEP) ha publicado el informe sobre el desabastecimiento temporal de cefixima en solución oral.

OPORTUNIDAD EDUCATIVA
El Comité de Pediatría de la Asociación Española de Pediatría (AEP) ha publicado el informe sobre el desabastecimiento temporal de cefixima en solución oral.

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El Comité de Pediatría de la Asociación Española de Pediatría (AEP) ha publicado el informe sobre el desabastecimiento temporal de cefixima en solución oral.

retirada de lotes afecta a todas las presentaciones del citado fármaco. Está previsto que la resolución del problema no llegue hasta verano de 2014 (posiblemente finales de agosto).

Por ello, el Comité de Medicamentos de la AEP (CM-AEP) emite este informe con las posibles opciones para ofrecer a los pacientes que lo estén empleando. *Buccolam*[®] es el único preparado comercial disponible en el mercado de midazolam de uso oral en nuestro país. Su indicación es el tratamiento de las convulsiones en niños entre 3 meses y 18 años y se dispensa en forma de jeringas precargadas, que facilitan su administración en la mucosa yugal.

OPCIONES TERAPUETICAS

La opción terapéutica recomendada es la administración de diazepam rectal: *Stesolid*[®] 5 mg y 10 mg microenemas, siendo este un fármaco ampliamente utilizado y del que se dispone una gran experiencia. La dosis recomendada es: 0,5 mg/kg (máximo 10 mg).

Maneig terapèutic

TEMPS FINS L'IMPACTE



Stock
Durada

EVITAR EL BUIT TERAPÈUTIC

Caducitat (re-test)
Presentació alternativa
Medicament estranger
Fórmula magistral
Alternativa terapèutica

Prioritzar indicacions !

VALORACIÓ DEL RISC



Composició?
Concentració?
Excipients?






Digoxina
0,25 mg/mL
0.25 mg/vial → 0.5mg/vial

**Pipotiazina
palmitato**
↓
**Flufenazina
decanoato** 

Cidofovir


Tuberculina
1 vial = 15 dosis
estabilitat 24h 

Transmissió d'informació

Cooperació entre els professionals de la salut



COMPARTIR INFORMACIÓ

INFORMACIÓ ACTIVA

Notes d'informació
Prescripció electrònica
Recepta electrònica
Notificació a l'AEMPS
Informar als altres companys

INFORMACIÓ ACTIVA

Notes d'informació

Prescripció electrònica

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Informar als altres companys



American Society of
Health-System Pharmacists®
TOGETHER WE MAKE A GREAT TEAM

Guidelines and Resources

Policies, Best Practices, and Guidelines

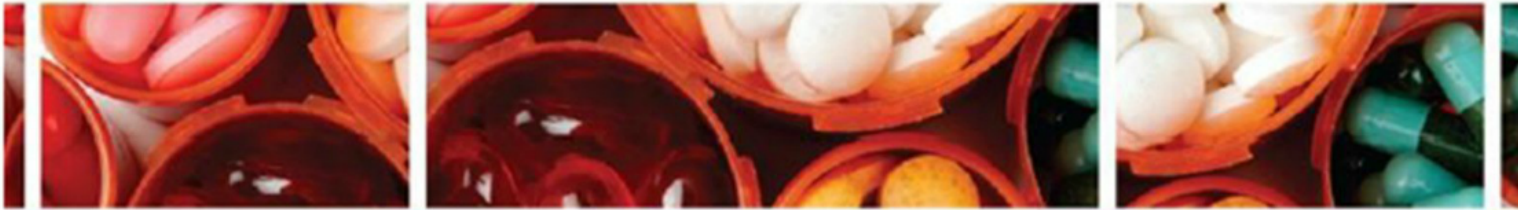
- > [ASHP Guidelines on Managing Drug Product Shortages](#) [PDF]
- > [Drug Product Shortages - ASHP Policy Position 1118](#) [PDF]
- > [ASHP Guidance for Purchasing Drug Products in Short Supply](#) [PDF]
- > [A.S.P.E.N.'s Recommendations for Managing Parenteral Nutrition Cysteine Product Shortage](#)
- > [Sample Drug Shortages Policy by University Healthcare Hospitals and Clinics](#) [PDF]
- > [FDA Drug Shortage Website](#)
- > [CDC Vaccine Shortage Website](#)

Publications on Drug Shortages

Policy and Analysis

- > [April 2013 Drug Shortages Summit Report: Evaluating Long Term Solutions](#) [PDF]
- > [FDA's Strategic Plan for Preventing and Mitigating Drug Shortages \(2013\)](#) [PDF]
- > [Economic and Technological Drivers of Generic Sterile Injectable Drug Shortages](#) [PDF] (Clinical Pharmacology and Therapeutics, 2013)
- > [An Economic Analysis of the Causes of Drug Shortages](#) [PDF] (ASPE Issue Brief, 2011)
- > [Can the United States Ensure an Adequate Supply of Critical Medications?](#) (FDLI's Food and Drug Policy Forum, 2011)
- > [Navigating Drug Shortages in American Healthcare: A Premier healthcare alliance analysis](#) [PDF] (Premier, Inc, 2011)
- > [November 5, 2010 Drug shortages summit summary report](#) (ASHP, 2010)
- > [Managing drug shortages: 7 years experience at the University of Utah Hospitals and Clinics](#) (AJHP, 2003)
- > [Provisional observations on drug product shortages: Effects, causes, and potential solutions](#)

PURDUE UNIVERSITY COLLEGE OF PHARMACY'S CENTER FOR MEDICATION SAFETY ADVANCEMENT



Center for Medication Safety Advancement

Drug Shortage Preparedness

Survey and Tips for Improvement

Developed by:

Jonathan Weir, PharmD Candidate in collaboration with Steve R. Abel, PharmD, FASHP and John B. Hertig, PharmD, MS; Purdue University College of Pharmacy's Center for Medication Safety Advancement

11/5/2012

11/5/2012

Prior to shortage do/have you...		Yes	No
Investigated potential shortages on a <u>daily basis</u> ? ^{1,3,4,7}		<input type="checkbox"/>	<input type="checkbox"/>
<u>Assigned a staff member to identify drug shortages</u> ? ²		<input type="checkbox"/>	<input type="checkbox"/>
Is the staff member above a pharmacist?		<input type="checkbox"/>	<input type="checkbox"/>
If no, have you assigned a designated pharmacist to work with the staff member above? ^{1,3,4,5} N/A <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Designated a primary contact individual for people to contact regarding shortages? ^{2,6}		<input type="checkbox"/>	<input type="checkbox"/>
Setup a system for warning providers in advance of impending drug product shortages? ^{1,2,3,4,6}		<input type="checkbox"/>	<input type="checkbox"/>
Developed and implemented strategies and processes for optimizing the safe and effective use of therapeutic alternatives? ^{1,2,4}		<input type="checkbox"/>	<input type="checkbox"/>
Setup collaborative arrangements with other institutions? ^{1,2,4,5}		<input type="checkbox"/>	<input type="checkbox"/>
Decided on your philosophy on purchasing drugs from gray market? ^{1,5}		<input type="checkbox"/>	<input type="checkbox"/>
When shortage is identified do you...		Yes	No
<u>Validate the shortage and its anticipated duration</u> ? ^{1,2,3,4,7}		<input type="checkbox"/>	<input type="checkbox"/>
<u>Count the inventory on hand and estimate the time period it will cover</u> ? ^{1,3,4,6}		<input type="checkbox"/>	<input type="checkbox"/>
Estimate how long the system can endure a shortage? ^{1,3,4,7}		<input type="checkbox"/>	<input type="checkbox"/>



When shortage is identified do you...	Yes	No
Validate the shortage and its anticipated duration? ^{1,2,3,4,7}	<input type="checkbox"/>	<input type="checkbox"/>
Count the inventory on hand and estimate the time period it will cover? ^{1,3,4,6}	<input type="checkbox"/>	<input type="checkbox"/>
Estimate how long the system can endure a shortage? ^{1,3,4,7}	<input type="checkbox"/>	<input type="checkbox"/>
Determine availability of supplies from alternative sources? ^{1,4}	<input type="checkbox"/>	<input type="checkbox"/>
Locate and procure alternative supplies if available? ^{1,4,7}	<input type="checkbox"/>	<input type="checkbox"/>
Investigate compounding the product? ^{1,2,4}	<input type="checkbox"/>	<input type="checkbox"/>
Identify therapeutic alternatives? ^{1,2,3,4,6,7}	<input type="checkbox"/>	<input type="checkbox"/>
Research and provide education about alternative agents and the cost of all scenarios? ^{1,2,3,4,7}	<input type="checkbox"/>	<input type="checkbox"/>
Convert the inventory of alternative drugs into common measurement units to augment estimates of use? ^{1,4}	<input type="checkbox"/>	<input type="checkbox"/>
Communicate the needed information to all professionals involved and to affected patients when warranted? ^{1,2,3,4,6,7}	<input type="checkbox"/>	<input type="checkbox"/>
Prioritize patients to ensure that available medication is dispensed appropriately? ^{2,3,4,5,6,7}	<input type="checkbox"/>	<input type="checkbox"/>
Develop a contingency planning strategy to prepare for the possibility of a prolonged drug shortage? ^{1,3,4,7}	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate effect on patient care and safety? ^{1,2,3,4,6,7}	<input type="checkbox"/>	<input type="checkbox"/>
Consider changes in procedures for look-alike and sound-alike medications, bar coding, contract compliance, distribution paths, and the effect on automation, and final product preparation? ^{1,4}	<input type="checkbox"/>	<input type="checkbox"/>
Restrain from stockpiling? ^{1,2,4,5}	<input type="checkbox"/>	<input type="checkbox"/>
Total Number of Yes/No Answers*:		

*The sum of Yes/No should be used for your purposes to evaluate your health system. Every system is different and not all strategies may work in your health system.





ASHP REPORT

ASHP Guidelines on Managing Drug Product Shortages in Hospitals and Health Systems

DEVELOPED BY AN ASHP EXPERT PANEL ON DRUG PRODUCT SHORTAGES: ERIN R. FOX, ANNETTE BIRT, KEN B. JAMES, HEATHER KOKKO, SANDRA SALVERSON, AND DONNA L. SOFLIN

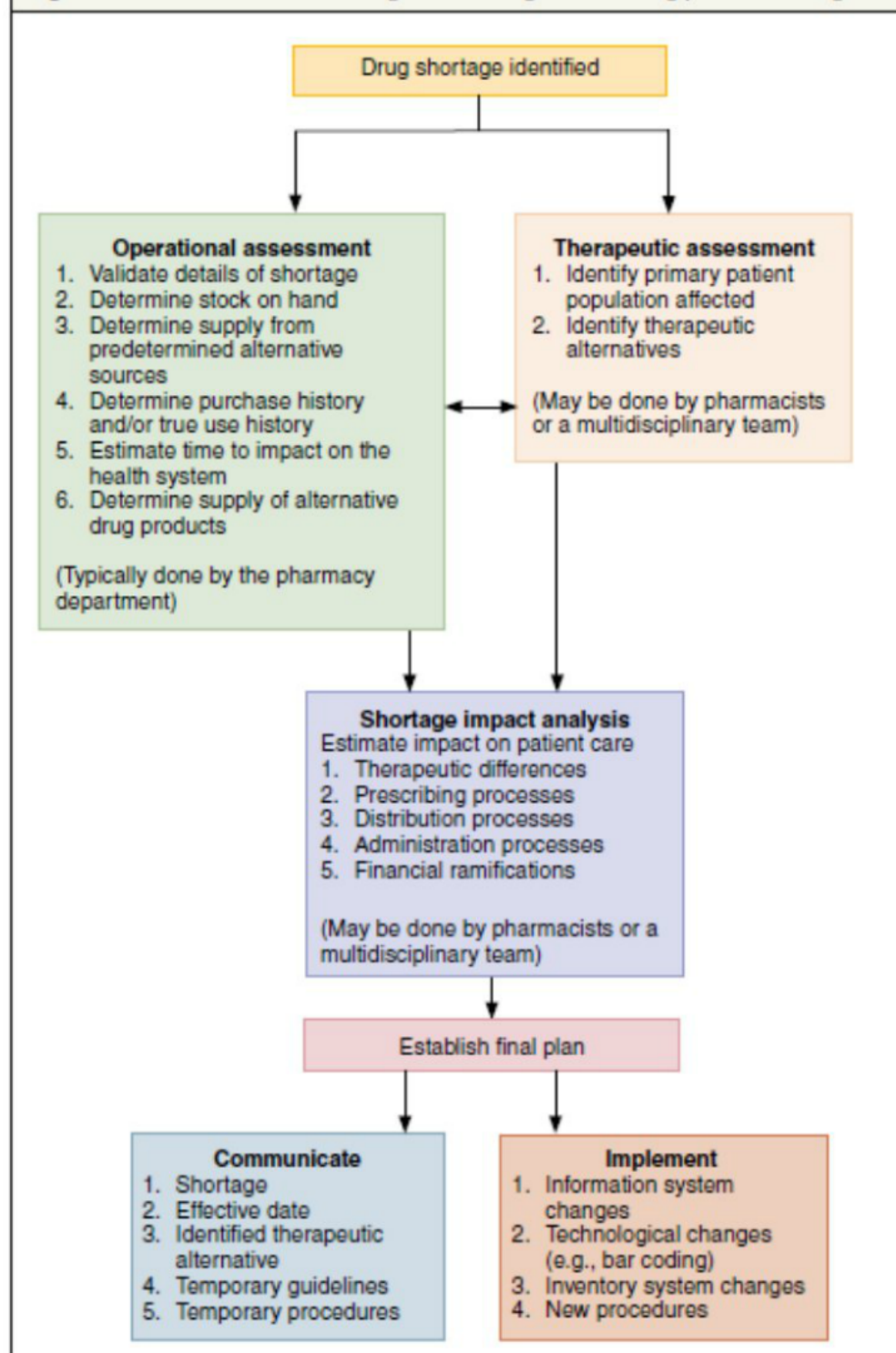
Am J Health-Syst Pharm. 2009; 66:1399-406

Figure 1. Process for decision-making in the management of drug product shortages.

Drug shortage identified



Figure 1. Process for decision-making in the management of drug product shortages.



MISSATGES PER EMPORTAR A CASA



Problema present a la pràctica diària
Afrontar la situació: SER PROACTIUS
Vigilar la SEGURETAT