

# **Risk Evaluation and Mitigation Strategies (REMS) for Generic Drugs: Use of a Drug Master File (DMF) and REMS Modifications**

**Charles Kerns, REMS Coordinator**  
**Jennifer Sarchet, REMS Coordinator**

Division of Clinical Safety and Surveillance  
Office of Safety and Clinical Evaluation  
Office of Generic Drugs  
Center for Drug Evaluation and Research  
U.S. Food and Drug Administration  
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# Learning Objectives

## What is a REMS?

- Define a REMS and REMS requirements

## REMS with a DMF

- Explain the differences and similarities of REMS with and without a DMF

## REMS Revisions and Modifications

- Define REMS revisions and modifications and submission requirements for pending versus approved Abbreviated New Drug Applications (ANDAs)

# What is a REMS?

The Food and Drug Administration Amendments Act (FDAAA) of 2007, under Section 901 requires applicants to:

1. Develop and comply with REMS under section 505-1 of the Federal Food, Drug, and Cosmetic Act (FD&C Act).
2. Develop a risk management plan beyond the labeling to ensure the benefits of a drug outweigh known risks.
3. Generally, focuses on communicating to patients, communicating to health care providers and may include required activities or clinical interventions before the drug can be prescribed, dispensed or received.

# When is a REMS Necessary?

Consideration of the following factors:

- Seriousness of the known or potential adverse events
- Expected benefit of the drug
- Seriousness of the disease
- Whether the drug is new [i.e., a new molecular entity (NME)]
- Expected duration of treatment
- Size of the population likely to use the drug

## REMS: FDA's Application of Statutory Factors in Determining When a REMS Is Necessary

### Guidance for Industry

*Additional copies are available from:*

*Office of Communications, Division of Drug Information  
Center for Drug Evaluation and Research  
Food and Drug Administration  
10001 New Hampshire Ave., Hillandale Bldg., 4<sup>th</sup> Floor  
Silver Spring, MD 20993-0002  
Phone: 855-543-3784 or 301-796-3400; Fax: 301-431-6353  
Email: [druginfo@fda.hhs.gov](mailto:druginfo@fda.hhs.gov)*

<http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/default.htm>

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*Office of Communication, Outreach and Development  
Center for Biologics Evaluation and Research  
Food and Drug Administration  
10903 New Hampshire Ave, Bldg. 71, Room 3128  
Silver Spring, MD 20993-0002  
Phone: 800-835-4709 or 240-402-8010  
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<http://www.fda.gov/BiologicsBloodVaccines/GuidanceComplianceRegulatoryInformation/default.htm>

**U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Drug Evaluation and Research (CDER)  
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**April 2019  
Drug Safety**

# When is a REMS Necessary?

FDA may require a REMS:

## Pre-Approval

FDA determines a REMS is necessary to ensure the benefits of the drug outweigh the risk(s)

## Post Approval

FDA becomes aware of new safety information and determines that a REMS is necessary to ensure the benefits of the drug outweigh the risk(s)

# Elements of a REMS

REMS elements include one or more of the following:

- Communication Plan (not required for ANDAs)
- Medication Guide
- Elements to Assure Safe Use (ETASU)
- Implementation System

All REMS require a timetable for the submission of assessments.

# REMS Requirements for ANDAs

If the Reference Listed Drug (RLD) has a REMS, then all ANDAs must also have a REMS using one of the following options:

- Join an already existing Shared System REMS
- Work with the RLD to develop a new Single, Shared System REMS
- Pursue a *separate*, comparable system from the Shared System REMS and work *independently* from the RLD
- Medication Guide only REMS

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## Development of a Shared System REMS Guidance for Industry

### *DRAFT GUIDANCE*

This guidance document is being distributed for comment purposes only.

Comments and suggestions regarding this draft document should be submitted within 60 days of publication in the *Federal Register* of the notice announcing the availability of the draft guidance. Submit electronic comments to <https://www.regulations.gov>. Submit written comments to the Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. All comments should be identified with the docket number listed in the notice of availability that publishes in the *Federal Register*.

For questions regarding this draft document, contact (CDER), Lubna Merchant, Office of Surveillance and Epidemiology, at 301-796-5162 or (CBER) Office of Communication, Outreach and Development, 800-835-4709 or 240-402-8010.

U.S. Department of Health and Human Services  
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Center for Drug Evaluation and Research (CDER)  
Center for Biologics Evaluation and Research (CBER)

June 2018  
Drug Safety

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# REMS Submissions

Options for submitting a REMS for review:

1. Full REMS proposal
  - No DMF
  
2. Drug Master File
  - Applicant should submit a cross-reference cover letter and Letter of Authorization (LOA)

# REMS Submissions: Full REMS Proposal



Proposed REMS submission includes:

1. REMS (REMS document and REMS materials)
2. REMS Supporting Document

Submission Instructions for each Applicant (No REMS DMF):

- Initial submission (REMS Proposal) - **“PROPOSED REMS for ANDA #####”**
- Subsequent submissions (REMS Amendment) - **“PROPOSED REMS for ANDA ##### - AMENDMENT”**
- REMS document submitted in Structured Product Labeling (SPL) format

# REMS Submissions: Drug Master File (DMF)



## DMF Submission

- Type V DMF for Shared System (SS) submissions
- Requires a Letter of Authorization (LOA) to be submitted to DMF; DMF holder should send copy to applicant
- Does not need to submit a full REMS proposal

**Use of a Drug Master File for  
Shared System REMS Submissions**

**Guidance for Industry**

*DRAFT GUIDANCE*

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For questions regarding this draft document, contact (CDER) Gita Toyserkani 301-796-1783 or (CBER) Office of Communication, Outreach and Development, 800-835-4709 or 240-402-8010.

U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Drug Evaluation and Research (CDER)  
Center for Biologics Evaluation and Research (CBER)

November 2017  
Procedural

# REMS: Other Things to Know

- A REMS Pre-Approval Notification Letter (RNL) is sent to applicant after the application is accepted for review. Lists the single point of contact to initiate joining the SS REMS
- A REMS proposal is not required at initial ANDA filing, but a statement of intent regarding the REMS is recommended
- If resubmitting after a Complete Response action, the REMS proposal should be part of the resubmission

# Challenge Question #1

The RLD in your application has a Shared System REMS, and the REMS does **not** have an established Type V DMF. What should you submit to your application?

- A. Nothing; no submission is necessary.
- B. A cover letter cross-referencing the REMS DMF and a Letter of Authorization (LOA) from the DMF Holder, authorizing you to reference the DMF.
- C. A full REMS proposal (REMS documents and REMS materials) and REMS Supporting Document.
- D. Both B and C.

## Challenge Question #2

The RLD in your application has a REMS, and the REMS **has** an established Type V DMF. What should you submit to your application?

- A. Nothing; no submission is necessary.
- B. A cover letter cross-referencing the REMS DMF and a Letter of Authorization (LOA) from the DMF Holder, authorizing you to reference the DMF.
- C. A full REMS proposal (REMS documents and REMS materials) and REMS Supporting Document.
- D. Both B and C.

# Challenge Question #3

**From Question 2: The RLD in your application has a REMS, and the REMS has an established Type V DMF.**

**Who else should submit the LOA to their application to meet the REMS requirements?**

# REMS Requirements: Post-Approval

## REMS Assessments

- Required for all approved REMS
- Typically, not required for ANDAs that are part of a shared system REMS with an RLD, but can be required if necessary
- Provided in the REMS supporting document

## Proposed Changes to REMS

- Application holders (SS REMS Group) can propose changes to an approved REMS at any time
- FDA can require a REMS modification

### **Risk Evaluation and Mitigation Strategies: Modifications and Revisions Guidance for Industry**

*Additional copies are available from:*

*Office of Communications, Division of Drug Information  
Center for Drug Evaluation and Research*

*Food and Drug Administration*

*10001 New Hampshire Ave., Hillandale Bldg., 4th Floor*

*Silver Spring, MD 20993-0002*

*Phone: 855-543-3784 or 301-796-2400; Fax: 301-431-6333; Email: [druginfo@fda.hhs.gov](mailto:druginfo@fda.hhs.gov)  
<https://www.fda.gov/drugs/guidance-compliance-regulatory-information/guidances-drugs>*

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*Phone: 800-833-4709 or 240-402-8010; Email: [ocod@fda.hhs.gov](mailto:ocod@fda.hhs.gov)*

*<https://www.fda.gov/access/blood-biologics/guidance-compliance-regulatory-information-biologics/biologics-guidance>*

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**June 2020  
Drug Safety**

**Revision 2**

# Proposed Changes to REMS

- REMS Revision
- Minor Modification(s)
- Major Modification(s)

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*Phone: 835-543-3784 or 301-796-3400; Fax: 301-431-6333; Email: [druginfo@fda.hhs.gov](mailto:druginfo@fda.hhs.gov)  
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<https://www.fda.gov/oc/communication-biologics/guidance-compliance-regulatory-information/biologics/biologics-guidance>*

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**June 2020  
Drug Safety**

**Revision 2**

# REMS Revision

- Submitted as a REMS Revision (not a supplement)
- Does not require FDA approval
- Can be implemented upon submission
- Examples include:
  - Changes to the application holder name, address, or contact information
  - Editorial changes, grammar, formatting, or typographical errors

# Minor REMS Modification

- Submitted as a Changes-Being-Effectuated (CBE)-30 supplement
- Agency will review and act on proposed minor REMS modifications within 60 days
- Examples include:
  - Addition or removal of a strength or dosage of the drug

# Major REMS Modification

- Submitted as a Prior Approval Supplement (PAS)
- FDA will review and act on proposed major REMS modifications within 180 days of receipt
- Requires FDA approval before implementation
- Examples include:
  - Addition, removal, or change to a REMS goal
  - Addition of new information regarding the serious risks associated with the drug

# REMS Modification with a DMF

- Approved ANDAs should submit a cross-reference submission as soon as possible (after the modification is submitted to the DMF)
- Approved ANDAs will receive a REMS Modification decision letter after the review of the modification is complete

# REMS Modifications: Other Things to Know

- Modifications only apply to drug products with final approval. Pending and Tentatively Approved ANDAs are not required to submit (and will be requested to withdraw the submission)
- Approved ANDAs may receive a REMS Modification Notification letter

# Challenge Question #4

Your application, which requires a REMS, is pending review, and the shared system REMS which uses a Type V DMF requires a minor modification. What should you submit to your application regarding the modification?

- A. Nothing; no submission is necessary.
- B. A cover letter cross-referencing the REMS DMF and a Letter of Authorization (LOA) from the DMF Holder, authorizing you to reference the DMF.
- C. A full REMS proposal (REMS documents and REMS materials) and REMS Supporting Document.
- D. Both B and C.

# Challenge Question #5

You have an **approved** ANDA and participate in the shared system REMS. The REMS uses a DMF and requires a major modification. What should you submit to your application regarding the modification?

- A. Nothing; no submission is necessary.
- B. A cover letter cross-referencing the major modification to the REMS DMF.
- C. A full REMS proposal (REMS documents and REMS materials) and REMS Supporting Document.
- D. A cover letter cross-referencing the REMS DMF and a Letter of Authorization (LOA) from the DMF Holder, authorizing you to reference the DMF.

# REMS: Helpful Tools

[REMS@FDA](#)

### Approved Risk Evaluation and Mitigation Strategies (REMS)

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**REMS@FDA**

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Persons with disabilities having problems accessing the PDF file(s) below may call (301) 796-3634 for assistance.

The Food and Drug Administration Amendments Act of 2007 gave FDA the authority to require a Risk Evaluation and Mitigation Strategy (REMS) from manufacturers to ensure that the benefits of a drug or biological product outweigh its risks.

The table below provides links to currently approved individual and shared system REMS.

Information on historical and released REMS is available in downloadable data files.

[Excel](#) [CSV](#) [Print](#)

Filter by Keyword (e.g. REMS name, active ingredient, element)

Name	REMS Approved	Last Updated	MedGuide (MG)*	Comm. Plan (CP)	ETASU	Imp. System (IS)
<b>Abecma</b> (decabrtagene vicleucef), suspension, for intravenous infusion BLA #125736	03/26/2021	04/20/2021			ETASU	IS
<b>Adasuve</b> (vaccines), aerosol, powder NDA #022549	12/21/2012	01/27/2022			ETASU	IS
<b>Addyi</b> (ribavirin), tablet NDA #022526	08/18/2015	10/09/2019	MG			
<b>Aloneiron</b> Shared System REMS	11/22/2016	05/18/2022			ETASU	
<b>Alvimopan Shared System REMS</b> Shared System REMS	12/19/2019	12/19/2019			ETASU	IS
<b>Ambrisentan Shared System</b> Shared System REMS	03/28/2019	06/08/2021			ETASU	IS
<b>Aveed</b> (testosterone undecanoate), injection NDA #022219	05/05/2014	05/26/2022			ETASU	IS

# REMS: Helpful Tools

## FDA REMS Public Dashboard

FDA Risk Evaluation and Mitigation Strategy (REMS) Public Dashboard

[Total REMS](#)
[Active REMS](#)
[ETASU](#)
[Shared REMS](#)
[Modifications](#)
[REMS Revisions](#)
[REMS Released](#)
[REMS Summary](#)

[Disclaimer](#)
[User Manual](#)
[FAQ](#)
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Ever Approved: **301**
 User Selection: **-NA-**
 Currently Active: **60**

[Annually](#)
[Quarterly](#)
[Monthly](#)

### REMS Approved

Year	# of REMS
2008	27
2009	73
2010	67
2011	40
2012	12
2013	10
2014	11
2015	11
2016	5
2017	12
2018	7
2019	12
2020	4
2021	5
2022	4

### REMS Approved

Name	Application N...	REMS App...	Elemen...	Comm...	Medic...	Active	REH
Abecma	BLA #135736	03/26/2021	Yes	No	Yes	Yes	
Abstral	NA	01/07/2011	Yes	No	Yes	No	
Actemra	Multiple Applications	01/09/2010	No	Yes	Yes	No	
Actiq	NDA #020747	07/20/2011	Yes	No	Yes	No	
Actonel	NDA #020835	01/25/2011	No	No	Yes	No	
Actonel with calcium	NDA #021823	01/25/2011	No	No	Yes	No	
Actopus Met	NA	09/14/2009	No	No	Yes	No	
Actopus Met XR	NA	05/12/2009	No	No	Yes	No	
Actos	NDA #071073	09/09/2009	No	No	Yes	Yes	
Adasuve	NDA #022549	12/21/2012	Yes	Yes	No	Yes	
Addyi	NDA #072526	08/18/2015	Yes	No	No	Yes	
Adempas	NDA #204819	10/08/2013	Yes	No	Yes	No	
Advair Diskus	NDA #011077	04/30/2006	No	No	Yes	No	

**Data as of January 24, 2023**

[Vulnerability Disclosure Policy](#)

This page displays the REMS approved for a selected time period. The elements of the REMS reflected in the table are the elements with which the REMS was initially approved.

# Resources

## Guidance Documents

### [Search for FDA Guidance Documents](#)

- *REMS: FDA's Application of Statutory Factors in Determining When a REMS is Necessary for Industry*
- *Development of a Shared System REMS Guidance for Industry (Draft Guidance)*
- *Format and Content of a REMS Document Guidance for Industry*
- *Risk Evaluation and Mitigation Strategies: Modifications and Revisions Guidance for Industry*
- *Use of a Drug Master File for Shared System REMS Submissions Guidance for Industry (Draft Guidance)*

## Additional REMS Information

[REMS@FDA](#)

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