

# ***Keynote:***

# **Generic Drug Program Update**

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Director, Office of Generic Drugs  
Center for Drug Evaluation and Research  
U.S. Food and Drug Administration

# Outline

1. Introduction
2. Generic Drug Program Overview
3. Generic Drug User Fee Amendments (GDUFA)
4. Drug Competition Action Plan (DCAP)
5. Conclusion

# Introduction

- FDA Office of Generic Drugs, CDER
- FDA Office of Study Integrity and Surveillance, Office of Translational Sciences (OTS), CDER
- PAREXEL Consulting
- FDA Office of Clinical Pharmacology, OTS, CDER
- Pfizer, Ann Arbor, MI
- BMS, Princeton, NJ
- University of Michigan, Ann Arbor, MI

# Generic Drug Program Overview



## Office of Generic Drugs (OGD)

### **Director:**

Sally Choe, PhD

### **Deputy Director:**

Howard Chazin, MD (Acting)

### **Office of Research and Standards (ORS)**

#### Director:

Rob Lionberger, PhD

#### Deputy Director:

Lei Zhang, PhD

Division of Therapeutic  
Performance

Division of Quantitative  
Methods & Modeling

### **Office of Bioequivalence (OB)**

#### Director:

Dale Conner, PharmD

#### Acting Deputy Director:

Ethan Stier, PhD

Division of Bioequivalence I

Division of Bioequivalence II

Division of Bioequivalence III

Division of Clinical Review

### **Office of Generic Drug Policy (OGDP)**

#### Director:

Maryll Toufanian, JD

#### Deputy Director:

Kristin Davis, JD

Division of Legal and  
Regulatory Support

Division of Policy  
Development

### **Office of Regulatory Operations (ORO)**

#### Director:

Edward (Ted) Sherwood

#### Deputy Director:

CDR Vincent Sansone,  
PharmD

Division of Labeling Review

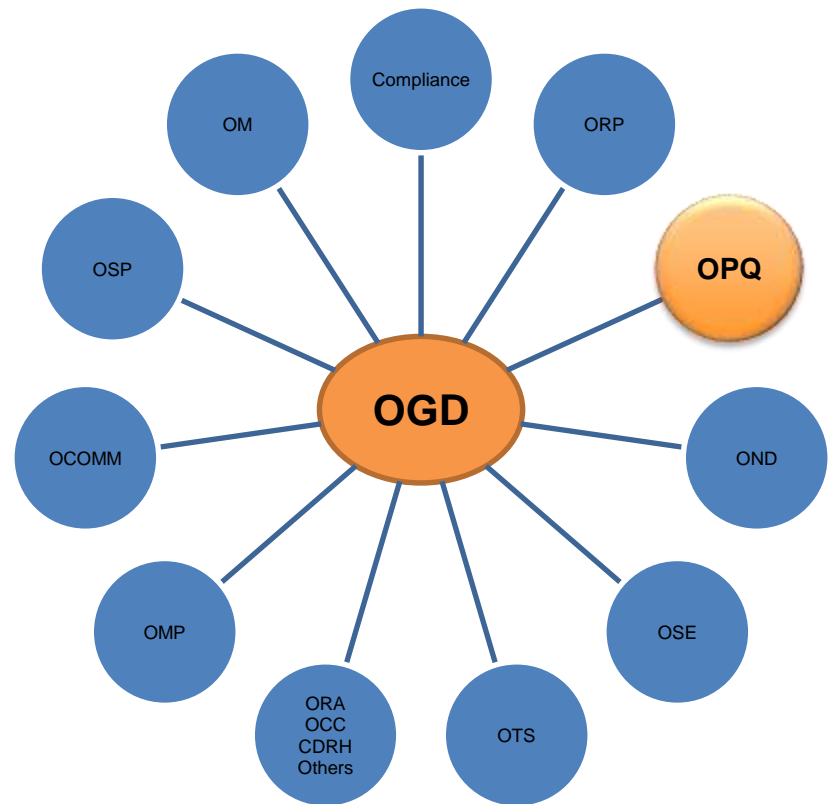
Division of Filing Review

Division of Project  
Management

Division of Quality  
Management Systems

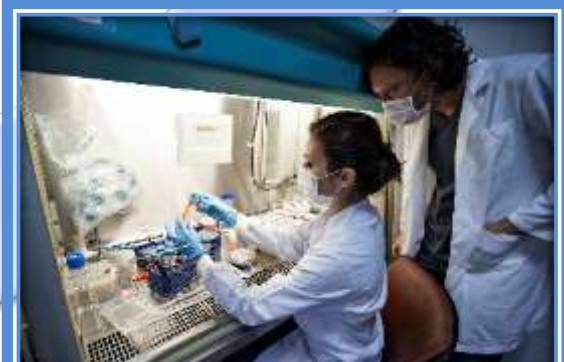
# U.S. FDA Generic Drug Program

- Abbreviated new drug applications (ANDAs) involve multiple offices within FDA
  - OGD issues regulatory action on ANDAs
  - Office of Pharmaceutical Quality (OPQ) and OGD collaborate on technical review of ANDAs
- Many offices across CDER and FDA contribute to program success





# Generic Drug Program



# Generic Drug User Fee Amendments (GDUFA)



# GDUFA

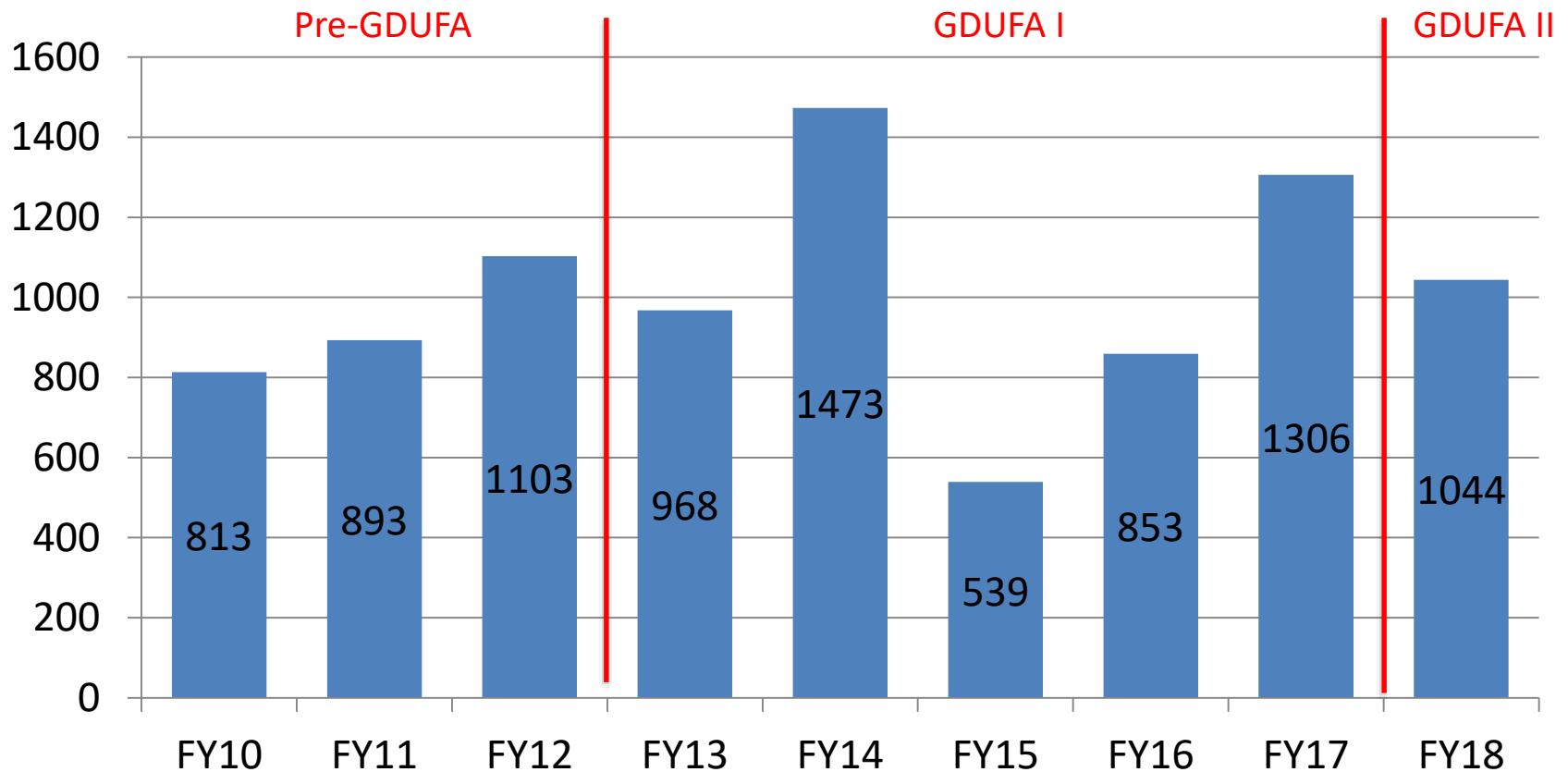
- Reflects negotiated agreements with industry
- Goals based on assessment of program activities
- GDUFA I (2012)
- GDUFA II (2017)
  - [GDUFA II Commitment Letter](#)
  - [www.fda.gov/GDUFA](http://www.fda.gov/GDUFA)

# GDUFA II Features

- I. Submission Review Performance Goals
- II. Original ANDA Review Program Enhancements
- III. Pre-ANDA Program and Subsequent Mid-Review-Cycle Meetings for Complex Products
- IV. DMF Review Program Enhancements
- V. Facilities
- VI. [Enhanced Accountability and Reporting](#)

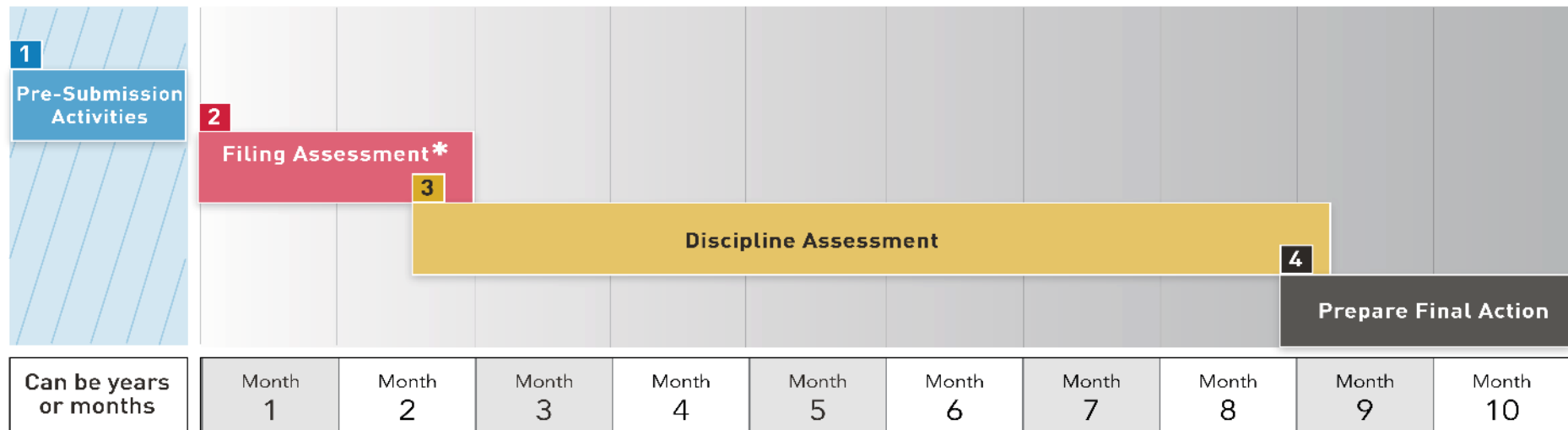
# GDUFA Program Performance

# ANDA Receipts (Originals)



# Predictability

Abbreviated New Drug Application (ANDA) Review Timeline<sup>+</sup>  
**Standard Review 10-Month Goal**

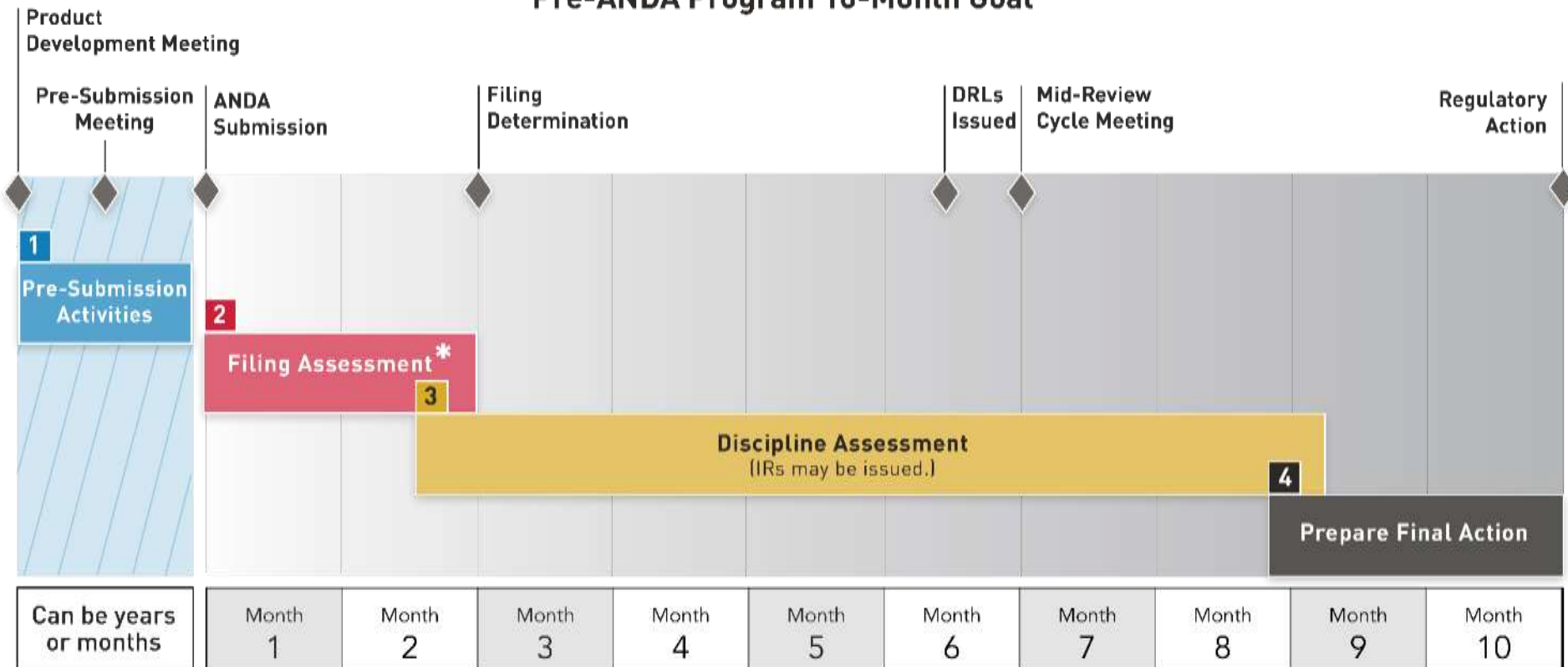


<sup>+</sup> Each ANDA assessment progresses in a unique and iterative way. This is one example and is not reflective of every ANDA assessment.

<sup>\*</sup> [Good ANDA Assessment MAPP](#)

## Abbreviated New Drug Application (ANDA) Review Timeline<sup>+</sup>

### Pre-ANDA Program 10-Month Goal



<sup>+</sup> Each ANDA assessment progresses in a unique and iterative way. This is one example and is not reflective of every ANDA assessment.

<sup>\*</sup> [Good ANDA Assessment MAPP](#)

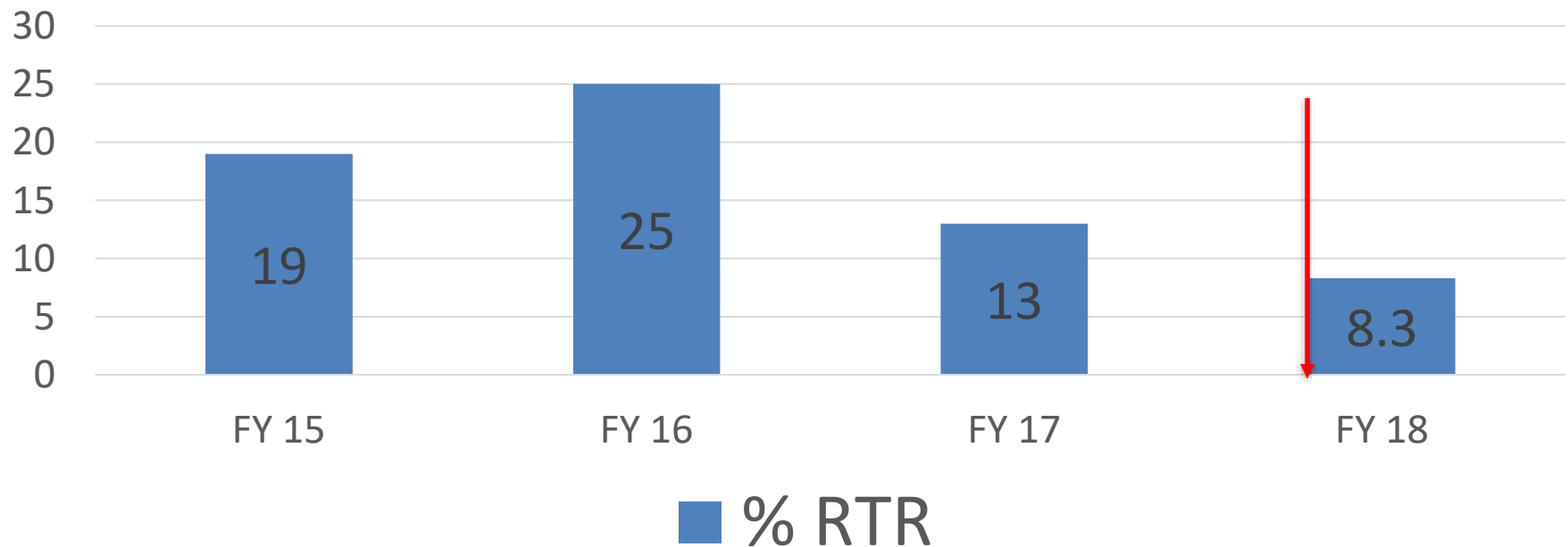
# Regulatory Actions

Under GDUFA, FDA has committed to take regulatory actions by the goal date:

1. Approval (AP)
2. Tentative Approval (TA)
3. Complete Response Letter (CR or CRL)

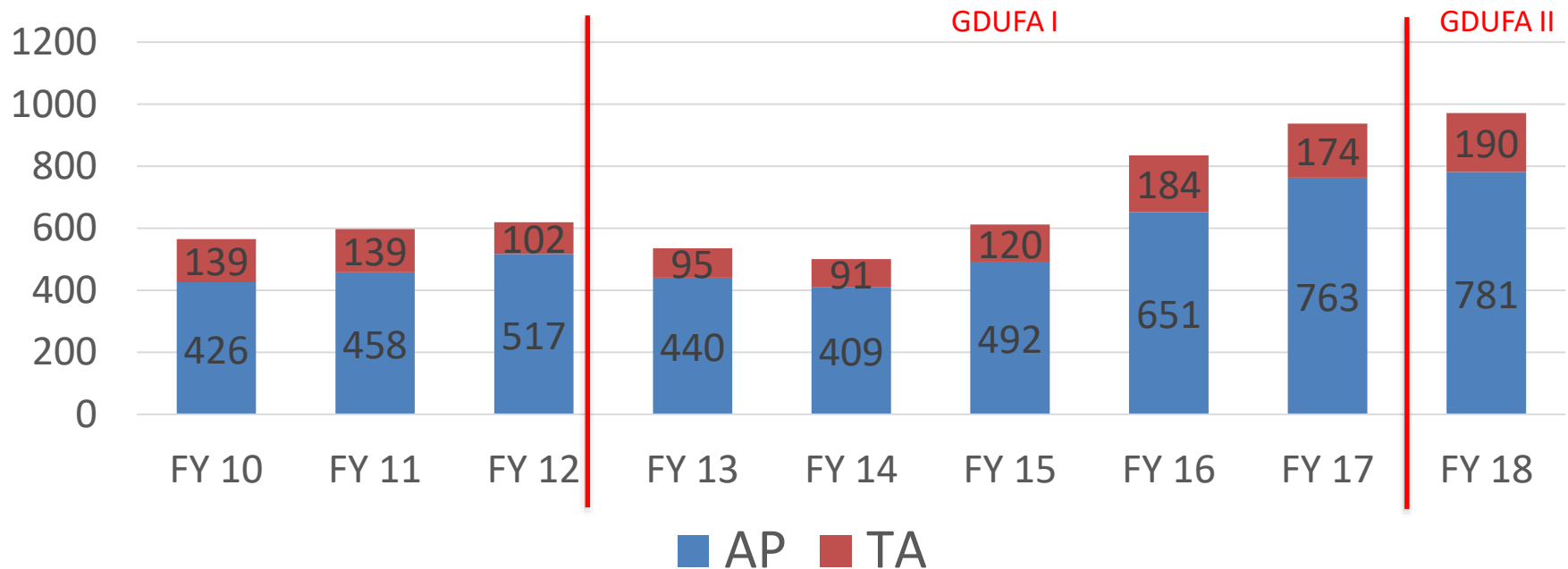
# Filing - Refuse to Receive (RTR)

(based on cohort year of submission)

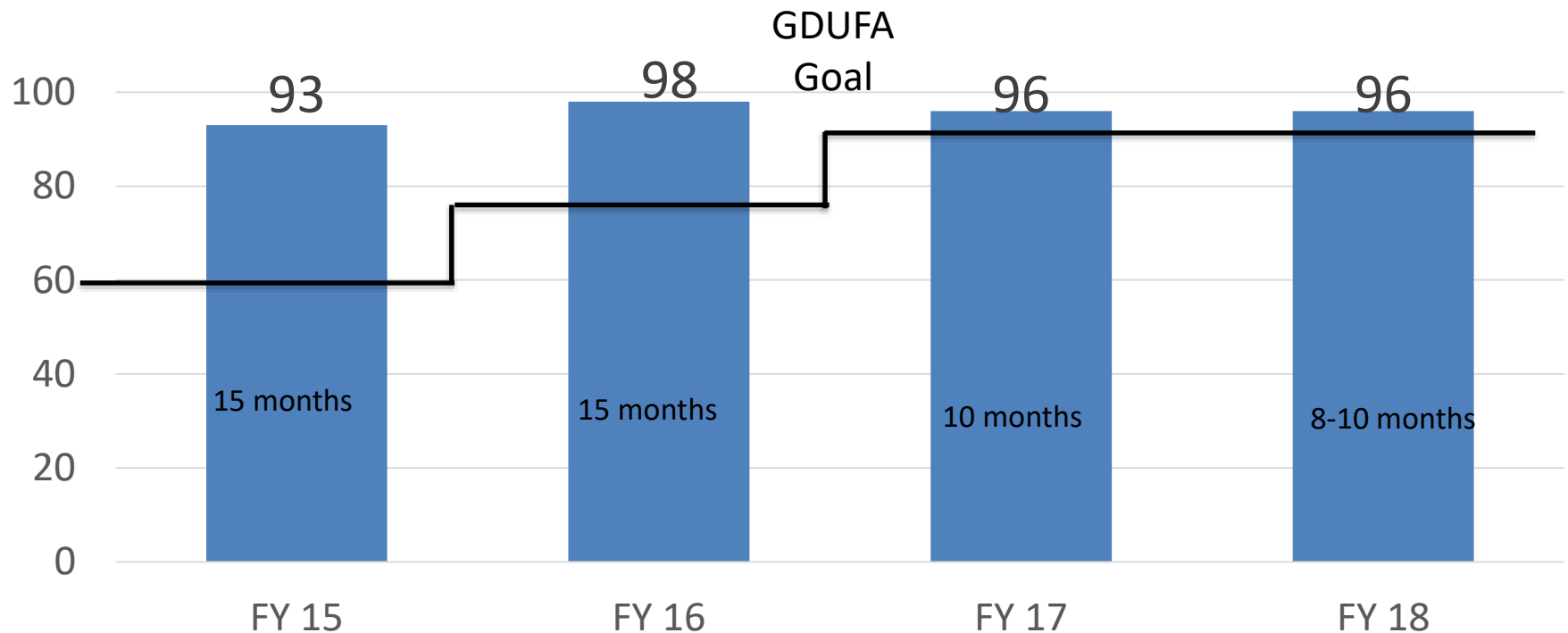




# Approval and Tentative Approval Totals



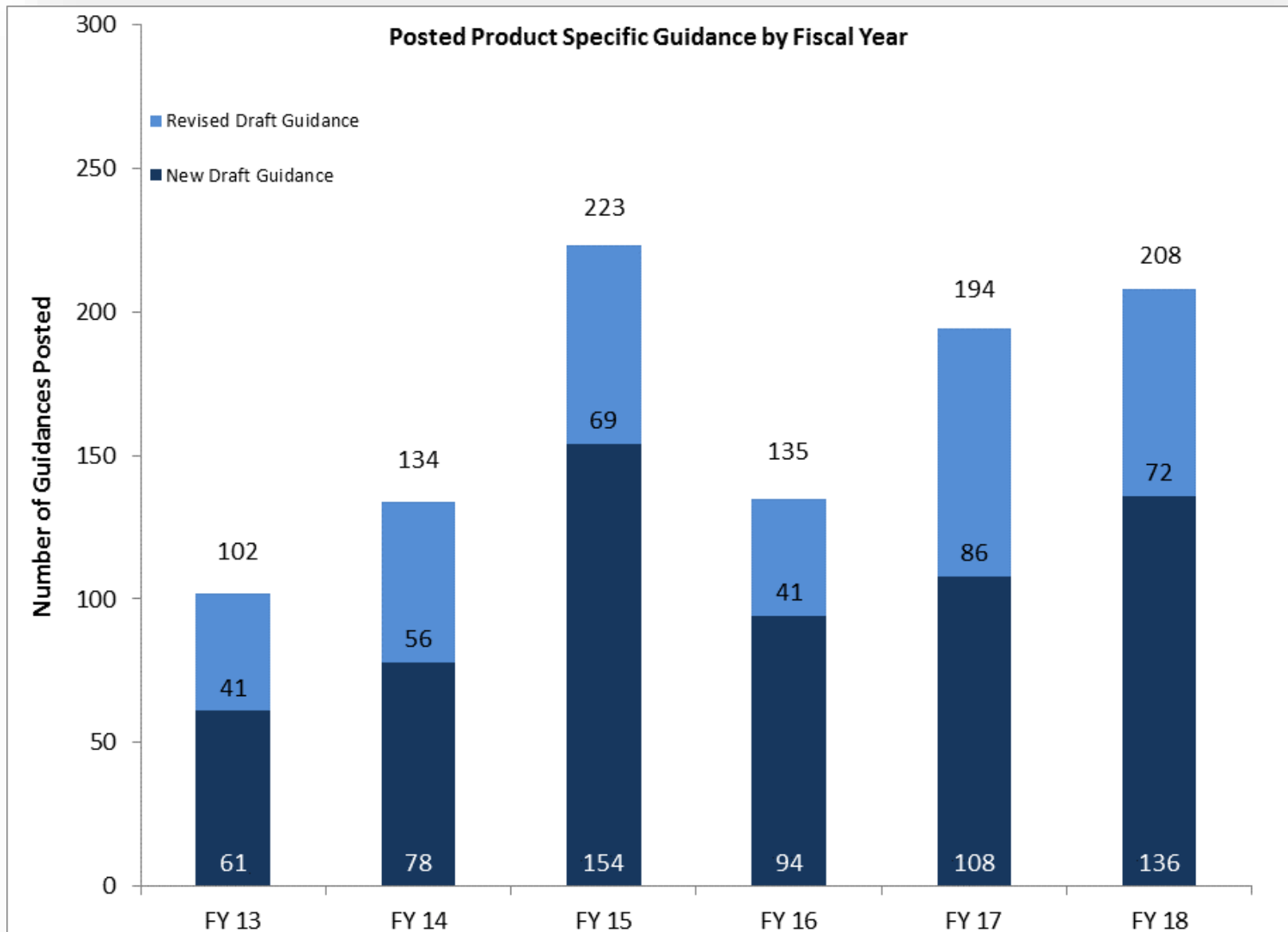
# GUDFA Performance – Originals (new applications)



# Product-Specific Guidance (PSG)

- PSGs provide detailed advice on the evidence recommended to demonstrate bioequivalence for a particular RLD
- They support the high first-cycle adequate rate for the bioequivalence sections of ANDAs
- [The PSGs web page](#) contains almost 1700 PSGs and new guidances are added every quarter

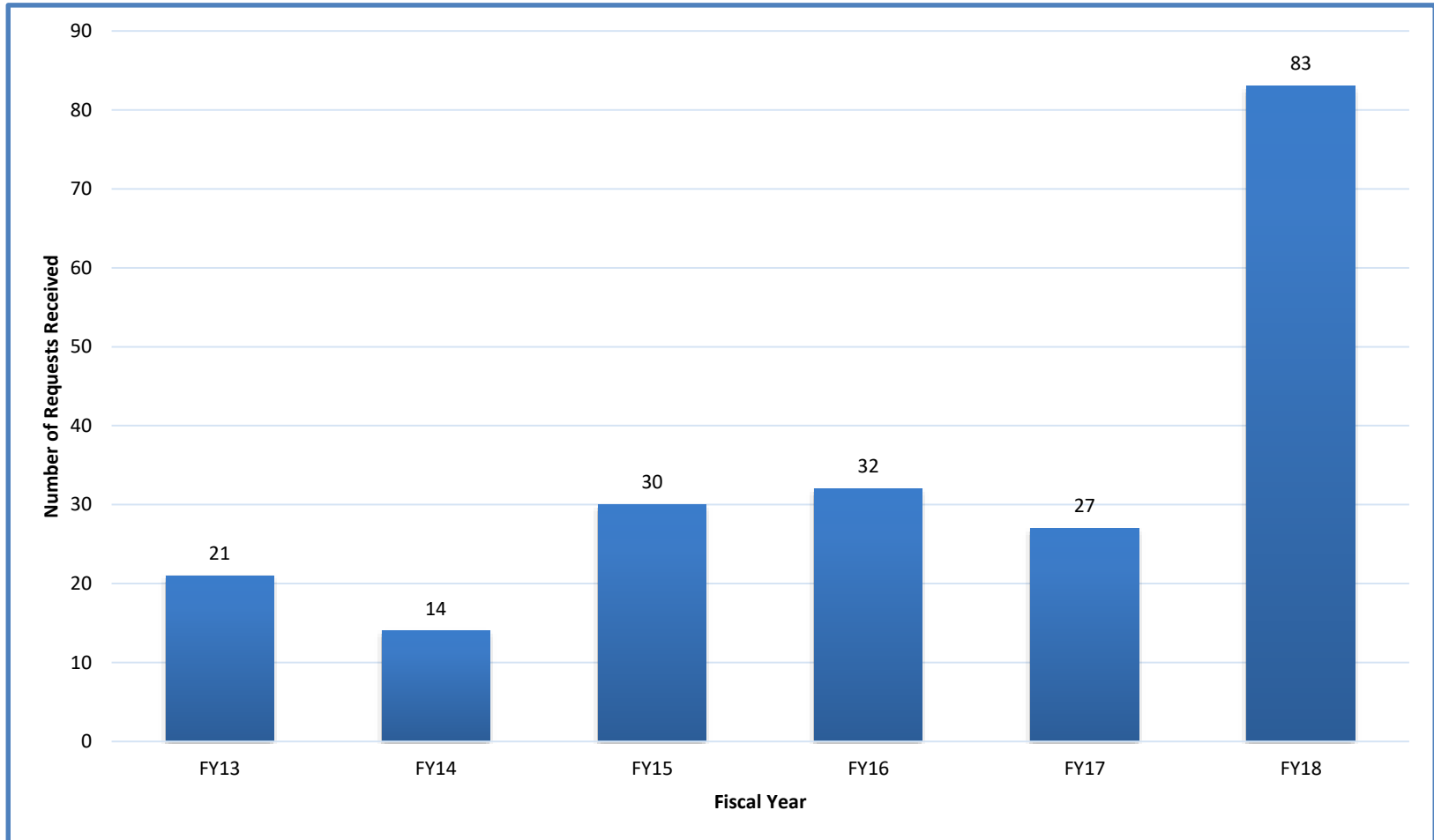
# Product-Specific Guidance



# Pre-ANDA Meetings for Complex Generics

- Pre-ANDA meetings have new GDUFA II commitments and timelines
- Provide opportunities to discuss new or alternative bioequivalence approaches for complex products
  - Focus on content not covered by PSGs

# Pre-ANDA Meeting Requests



# Pre-ANDA Meeting Requests – Fiscal Year 2018

Task	Target	Actual
Grant or Deny Meeting within 30 Days	90%	99%
Hold Meeting or Written Response within 120 Days	60%	100%
Send Meeting Minutes within 30 Days	N/A	100%

# GDUFA Science and Research

- Provides the scientific foundation for recommendations on complex products
  - Essential for pre-ANDA meetings and product-specific guidance development
- In 2018, GDUFA funded >\$14M in OGD regulatory science research programs
  - 24 new contracts and grants
  - 75 ongoing research collaborations
- Visit [www.fda.gov/gdufaregscience](https://www.fda.gov/gdufaregscience) for more details



# Input into Research Priorities

- The GDUFA Research program is focused on challenges to generic product development or assessment
- Stakeholder input was considered to develop the FY19 GDUFA Regulatory Science Priorities:
  1. Complex active ingredients, formulations, or dosage forms
  2. Complex routes of delivery
  3. Complex drug-device combinations
  4. Tools and methodologies for BE and substitutability evaluation
- Your input will determine FY20 priorities
  - [2019 Regulatory Science Initiatives Public Workshop](#) will be held on Wednesday, May 1, 2019 on the White Oak Campus

# Additional Fiscal Year 2018 Program Highlights

- Timely and successful update of Orange Book to reflect marketing status updates as required by FDARA
- Competitive generic therapy (CGT) designation and exclusivity requests
- Drug Competition Action Plan (DCAP)

# Drug Competition Action Plan (DCAP)

# DCAP Actions

- Commissioner [announced](#) in June 2017
- DCAP focuses on:
  - **Improving the efficiency** of generic drug development, review, and approval processes
  - **Maximizing scientific and regulatory clarity** with respect to generic drugs for **complex products**
  - **Closing loopholes** that allow brand drug companies to “game” the system in ways that thwart generic competition

# Improving the Efficiency of Generic Drug Development, Review, and Approval

- [Good ANDA Submission Practices](#) Draft Guidance
- [Good ANDA Assessment Practices](#) MAPP
- [ANDA Submissions--Amendments to Abbreviated New Drug Applications Under GDUFA](#) Final Guidance

# Maximizing Scientific and Regulatory Clarity for Complex Generic Drug Products

- Issued 76 PSGs for complex generics in 2018
- Published two guidances for industry:
  - [Assessing Adhesion with Transdermal and Topical Delivery Systems for ANDAs](#) Revised Draft Guidance
  - [Assessing the Irritation and Sensitization Potential of Transdermal and Topical Delivery Systems for ANDAs](#) Draft Guidance

# Closing Loopholes that Allow Brand Drug Companies to “Game” the System

- In May 2018, FDA published a [list of drug products about which FDA has received inquiries related to reference listed drug access](#)
- In June 2018, FDA published two draft guidances:
  - [Development of a Shared System REMS](#)
  - [Waivers of the Single, Shared System REMS Requirement](#)
- In October 2018, FDA published revised draft guidance: [\*Citizen Petitions and Petitions for Stay of Action Subject to Section 505\(q\) of the Federal Food, Drug, and Cosmetic Act\*](#)

# Encouraging Development of Generic Drugs in Markets with Limited Competition

- [List of Off-Patent, Off-Exclusivity Drugs without an Approved Generic](#) (Published in June 2017; updated biannually)
- [Addition of patent submission dates](#) to the Orange Book where available (Nov. 2017)



# Resources

## [Who to Contact for Questions Related to Generic Drugs](#)

Brief videos highlighting new features in GDUFA II on FDA.gov:

- [GDUFA Overview](#)
- [Pre-ANDA Program for Complex Products](#)
- [Type II Drug Master Files \(DMF\) Update](#)
- [Performance Goals](#)
- [Goals Integration](#)
- [Review Status Updates](#)
- [Post Complete Response Letter \(CRL\) Meeting](#)
- [Requests for Reconsideration](#)
- [Review Classification](#)

# Podcasts/Webinars

SBIA Complex Generic Drug Workshop (SBIA)	<a href="#"><u>Regulatory Education for Industry: Complex Generic Drug Product Development Workshop</u></a>	September 2018
Maryll Toufanian, JD	<a href="#"><u>US Generic Drug Policy: Less Cost, Same Impact</u></a>	Podcast-Recorded
Howard Chazin, MD	<a href="#"><u>Challenges in Generic Drug Safety &amp; Surveillance</u></a>	Podcast-Recorded
Xiaohui (Jeff) Jiang, PhD	<a href="#"><u>An Overview of Challenges and Opportunities in the Development of Complex Generic Drug Products</u></a>	March 6, 2018
Kim Witzmann, MD	<a href="#"><u>Overcoming Barriers to Entry for Complex Generic Oral Inhalation Drug Products</u></a>	March 15, 2018
Sam Raney, PhD	<a href="#"><u>FDA Champions Research to Make Complex Generic Transdermal Products Available to Patients</u></a>	April 25, 2018
Liang Zhao, PhD	<a href="#"><u>Pioneering Modeling Methodologies in Generic Drug Development</u></a>	May 17, 2018



# Generic Drug Program



# Office of Generic Drugs

## Mission and Vision



### Our Mission

OGD makes high quality, affordable medicines available to the public.

### Our Vision

OGD is the world leader in the science and regulation of generic medicines.



