# AMCP Florida Day of Education

### April 22, 2023



College of Pharmacy NOVA SOUTHEASTERN UNIVERSITY





### Mission

The Florida AMCP Affiliate seeks to serve the AMCP membership in the state of Florida in three primary areas; networking, education, and advocacy.

www.amcp.org/Florida-AMCP



### Mission

To improve patient health by ensuring access to high-quality, cost-effective medications and other therapies.



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## **Chapter Committees & Chairs**





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### OO Celltrion





#### Agenda

8:00AM-8:30AM	CHECK-IN / REGISTRATION, EXHIBITS/NETWORKING & BREAKFAST				
8:30AM-8:45AM	WELCOME / REVIEW AGENDA / GAME				
8:45AM-9:45AM	Obesity (CE) Cynthia Moreau, PharmD, CPH, BCACP, CDCES, ChenMed, Clinical Pharmacist				
9:45AM-10:45AM	Value Framework Assessment Overview (CE) Cynthia Miller, MD, MPH, FACP, Precision Value, VP Medical Director-Access Experience				
10:45AM-11:15AM.	BREAK / EXHIBITS / NETWORKING/SNACK				
11:15AM-12:30PM	Federal Legislative Update: Inflation Reduction Act & Panel Discussion (CE) Moderated by: Jennifer Mathieu, MA, AMCP, Vice President, Policy and Government Relations				
	<ul> <li>Panel Participants:</li> <li>Cynthia Griffin, PharmD, Florida Blue, Vice President, Medicare Pharmacy Programs</li> <li>Shawn Barger, PharmD, Aetna, Director of Medicare Formulary Strategy, Compliance &amp; Operations</li> <li>Ashley Peterson, MHA, Artia, Medicaid Pharmacy Director, Contracting &amp; Analytics (Former Administrator, Bureau of Medicaid, Pharmacy Policy)</li> <li>Javier Gonzalez, PharmD, Abarca Health, Chief Growth &amp; Commercial Officer</li> <li>Jonathan Hickman, PharmD, Genentech, Medical Executive Director</li> </ul>				
12:30PM-1:30PM	LUNCH / EXHIBITS / NETWORKING				
1:30PM-2:30PM	The Evolving Biosimilars Landscape Panel Discussion (CE) Moderated by: Wendy Bailey, Rh, BSPharm, MSPharm, MBA, Centene, Vice President of Health Plan Pharmacy Strategy				
	<ul> <li>Panel Participants:</li> <li>David Fox, PharmD, Florida Healthcare Plan, Clinical Pharmacy Director</li> <li>Jorge Garcia, PharmD, MS, MHA, MBA, FACHE, Baptist Health South Florida, Assistant Vice President-System Oncology Pharmacy Service Line</li> <li>Jennifer Miles, PharmD, BCACP, BCMTMS, Jackson Health Ambulatory Care, Assistant Director of Ambulatory Clinical Pharmacy Services</li> <li>Richard Gourash, R.Ph., MBA, BioPlus, VP Oncology</li> </ul>				
2:30PM-3:30PM	Health Disparities in Healthcare (CE) Shanada Monestime, PharmD, BCOP, GO2 for Lung Cancer, Director, Community Engaged Research				
3:30PM-4:30PM	Oncology Accelerated Drug Approvals that Lack Confirmatory Trials (CE) Presented by: Laura Bobolts, PharmD, BCOP, Onco Health, Senior Vice President, Clinical Strategy & Growth				
4:30PM-5:00PM	EXHIBITS / NETWORKING				



# Kahoot Game

https://create.kahoot.it/share/amcp-day-of-education-2023-kahoot-1/797fce56-e783-4f7e-8 ce6-273294e62283

# Management of Obesity

Cynthia Moreau, PharmD, CPh, BCACP, CDCES Clinical Pharmacist ChenMed cynthia.moreau@chenmed.com





# Objectives

- Review and compare available pharmacological options for management of obesity
- Understand which patients are candidates for pharmacotherapy for weight loss
- Develop an individualized treatment plan for weight loss given based on patient characteristics
- Describe considerations in managed care for management of obesity









# Etiology

Genetic

# Behavioral

### Environmental

### Cultural

### **Medications**





# **Defining Obesity**

### • Body Mass Index (BMI)

- Measure of body weight (kilograms) adjusted for height (meters<sup>2</sup>)
- Most useful population-level measurement of overweight and obesity

$$BMI = \frac{(\text{ weight in kilograms })}{\text{height in meters}^2}$$

Classification	BMI		
Underweight	< 18.5 kg/m²		
Normal weight	≥ 18.5 to 24.9 kg/m <sup>2</sup>		
Overweight	≥ 25.0 to 29.9 kg/m <sup>2</sup>		
Obesity	<u>≥</u> 30 kg/m²		
Class I Obesity	30.0 – 34.9 kg/m <sup>2</sup>		
Class II Obesity	35.0 – 39.9 kg/m <sup>2</sup>		
Class III Obesity	$\geq$ 40.0 kg/m <sup>2</sup> (extreme ob		





# Waist Circumference

### BMI limitations

• Does not distinguish body fat distribution  $\Box$  determinant of metabolic risk

### • Waist circumference (WC)

- Measure of excess abdominal fat
- Most useful in BMI <  $35 \text{ kg/m}^2$
- High-risk WC:
  - Men: > 40 inches Women: > 35 inches





## **Obesity and Disease**

Type 2 Diabetes Mellitus	Cancer	Heart Disease	Obstructive Sleep Apnea	Hepatobiliary	Osteoarthritis
<ul> <li>Central adiposity</li> </ul>	<ul> <li>Males – colon, rectum, prostate</li> <li>Females – breast, endometrial, gallbladder</li> </ul>	<ul> <li>Hypertension</li> <li>Atrial fibrillation</li> <li>Heart failure</li> <li>Dyslipidemia</li> <li>Coronary artery disease</li> </ul>	<ul> <li>Males &gt; females</li> <li>May be life-threatening</li> <li>Reduced nocturnal oxygen saturation</li> <li>Excess daytime sleepiness</li> </ul>	<ul> <li>Gallbladder disease</li> <li>Fatty liver disease</li> </ul>	• Knees, ankles





# **Management of Patients with Obesity**

### Lifestyle interventions

### Pharmacotherapy

### Surgical approaches/Medical Devices





# **Comprehensive Lifestyle Intervention**

• Initial goal: loss of 5-10% from baseline weight within 6 months

- Clinically significant improvements in BP, lipids, glycemic control
- Calorie-reduced diet
  - Energy deficit ~500 kcal/day Women: 1200-1500 kcal/day Men: 1500-1800 kcal/day





# **Comprehensive Lifestyle Intervention**

- No diet type superior in producing sustainable weight loss
  - Best predictor of success = adherence (patient preference)
- Physical activity:
  - Aerobic physical activity  $\geq$  150 minutes per week
  - 200-300 minutes per week to maintain long-term weight loss





# **Management of Patients with Obesity**

### Lifestyle interventions

### Pharmacotherapy

### Surgical approaches/Medical Devices





## **Approved Medications for Weight LOSS**

Long-Term Use Orlistat (Xenical®, Alli®) **Phentermine/Topiramate ER** (Qsymia<sup>®</sup>) Naltrexone SR/Bupropion ER (Contrave®) Liraglutide (Saxenda®) Semaglutide (Wegovy®)

Short-Term Use≤ 12 weeksPhentermine (Adipex-P®, Lomaira®)Diethylpropion (Tenuate®)

Benzphetamine (Regimex®)

Phendimetrazine (Bontril®)





























## Question

- Which of the following patients is an appropriate candidate for pharmacotherapy for weight loss according to clinical guidelines?
- A. A 45-year-old female with a BMI of 25 and type 2 diabetes
- B. A 29-year-old female with a BMI of 27 and glaucoma
- C. A 30-year-old male with a BMI of 32 and no other health conditions
- D. A 36-year-old male with a BMI of 28 and hypertension





# Candidates for Pharmacotherapy for Weight Loss

# $BMI \ge 30 \text{ kg/m}^2$

 $BMI \ge 27 \text{ kg/m}^2$  $+ \ge 1$ comorbidity

Jensen MD. J Am Coll Cardiol. 2014;63(25):2985-3023.





# Candidates for Pharmacotherapy for Weight Loss

# BMI ≥ 27 kg/m<sup>2</sup> + ≥ 1 comorbidity

• Obesity-related comorbidities:

- Dyslipidemia
- Hypertension
- Type 2 diabetes
- Obstructive sleep apnea
- Metabolic syndrome
- Knee osteoarthritis
- Asthma or COPD
- Nonalcoholic fatty live disease
- Polycystic ovarian syndrome
- Coronary artery disease











# Orlistat (Xenical®, Alli®)

### Mechanism of action

Inhibits gastric and pancreatic lipase □ inhibits intestinal fat absorption

### Dosing

- Xenical (Rx): 120 mg three times daily before meals
- Alli (OTC): 60 mg three times daily before meals
- Take during or up to 1 hour after fat-containing meal

### **DEA Schedule**

Not scheduled





# Orlistat (Xenical®, Alli®)

#### **Contraindications/Warnings**

- Pregnancy
- Cholestasis

#### **Adverse Effects**

- Gastrointestinal abdominal pain, bowel urgency, steatorrhea, fecal incontinence (limit fat intake to < 30% of daily calories)
- Liver failure (rate)
- Gallbladder disease
- Increased urine oxalate (monitor renal function) (caution in hx of kidney stones)
- Decreased absorption of fat-soluble vitamins  $\Box$  supplement with multivitamin

#### **Drug Interactions**

• Warfarin, amiodarone, cyclosporine, levothyroxine











# Phentermine/Topiramate ER (Qsymia®)

### Mechanism of action

- Phentermine: reduces appetite through increase in norepinephrine levels in hypothalamus
- Topiramate: may reduce appetite through effect on GABA receptors

#### Dosing

- 3.75/23 mg once daily x 14 days 
  7.5/46 mg once daily
- If weight loss < 3% after 12 weeks □ 11.25/69 mg once daily x 14 days □ 15/92 mg once daily</li>

### **DEA Schedule**







# Phentermine/Topiramate ER (Qsymia®)

#### **Contraindications/Warnings**

- Pregnancy
- •Glaucoma
- Hyperthyroidism
- •MAO inhibitor within 14 days

#### **Adverse Effects**

- Paresthesia
- Dizziness
- •Insomnia
- Altered taste
- Constipation
- Dry mouth
- Increased heart rate

#### **Drug Interactions**

•MAO inhibitors, CYP3A4/CYP1A2 inducers, Opioids/CNS depressants, diuretics (hypokalemia), estrogen contraceptives (decreased concentrations)





# Phentermine/Topiramate ER (Qsymia®)

#### Contraindications/Warnings

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#### Adverse Effects

- Paresthesia
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- •Insomnia
- Altered taste
- Constipation
- Dry mouth
- Increased heart rate

#### **Drug Interactions**

•MAO inhibitors, CYP3A4/CYP1A2 inducers, Opioids/CNS depressants, diuretics (hypokalemia), estrogen contraceptives (decreased concentrations)

- Topiramate increased risk of oral clefts
- Available under Risk Evaluation and Mitigation Strategy (REMS) program

   requires negative pregnancy test
   before treatment and monthly during




## Phentermine/Topiramate ER (Qsymia®)

#### **Contraindications/Warnings**

- Pregnancy
- Glaucoma
- •Hyperthyroidism
- •MAO inhibitor within 14 days

#### Adverse Effects

- Paresthesia
- Dizziness
- •Insomnia
- Altered taste
- Constipation
- Dry mouth
- Increased heart rate

#### **Drug Interactions**

•MAO inhibitors, CYP3A4/CYP1A2 inducers, Opioids/CNS depressants, diuretics (hypokalemia), estrogen contraceptives (decreased concentrations)

Monitor heart rate; use with caution in cardiovascular disease





### **History of Weight Loss Medications**







## Naltrexone SR/Bupropion SR (Contrave®)

### Mechanism of action

- Bupropion: dopamine and norepinephrine reuptake inhibitor in hypothalamus
- Naltrexone: mu opioid receptor antagonist

### Dosing

8/90 mg 1 tablet once daily x 1 week □ 8/90 mg 1 tablet twice daily x 1 week □ 8/90 mg 2 tablets AM + 1 tablet PM x 1 week □ 8/90 mg 2 tablets twice daily

### **DEA Schedule**

Not scheduled





## Naltrexone SR/Bupropion SR (Contrave®)

#### Contraindications/Warnings

#### • Pregnancy

- Uncontrolled hypertension
- Seizure disorder
- Eating disorder (anorexia/bulimia)
- Chronic opioid use/acute opioid withdrawal
- •MAO inhibitor within 14 days

#### Adverse effects

- Gastrointestinal nausea, vomiting, diarrhea, constipation
- Headache
- Dizziness
- Insomnia
- Dry mouth
- May increase HR

#### **Drug Interactions**

• Opioids, bupropion-containing products, CYP2B6/CYP2D6 inhibitors





### Naltrexone SR/Bupropion SR (Contrave®)

#### Contraindications/Warnings

#### • Pregnancy

- Uncontrolled hypertension
- Seizure disorder
- Eating disorder (anorexia/bulimia)
- Chronic opioid use/acute opioid withdrawal
- •MAO inhibitor within 14 days

#### Adverse effects

- Gastrointestinal nausea, vomiting, diarrhea, constipation
- Headache
- Dizziness
- Insomnia
- Dry mouth
- May increase HR

#### **Drug Interactions**

• Opioids, bupropion-containing products, CYP2B6/CYP2D6 inhibitors

Caution in cardiovascular disease/do not use in uncontrolled hypertension





### **History of Weight Loss Medications**







#### Liraglutide = Victoza® (diabetes management)

### Liraglutide (Saxenda®)

### Mechanism of action

 Glucagon-like peptide-1 (GLP-1) receptor agonist – stimulates glucose-dependent insulin release, slows gastric emptying, reduces food

### Dosing

• 0.6 mg SC daily x 1 week □ 1.2 mg SC daily x 1 week □ 1.8 mg SC daily x 1 week □ 2.4 mg SC daily x 1 week □ 3 mg SC daily

### **DEA Schedule**

Not scheduled





#### Liraglutide = Victoza® (diabetes management)

## Liraglutide (Saxenda®)

#### **Contraindications/Warnings**

- Pregnancy
- Personal/family history medullary thyroid cancer [Boxed warning]
- Moderate/severe renal impairment
- History of pancreatitis

#### **Adverse Effects**

- Gastrointestinal nausea, vomiting, diarrhea, constipation
- Acute pancreatitis
- Gallbladder disease
- Hypoglycemia

#### **Drug Interactions**

• Other hypoglycemic agents





### **History of Weight Loss Medications**







## Semaglutide (Wegovy®)

Semaglutide = Ozempic® Rybelsus® (diabetes management)

### Mechanism of action

 Glucagon-like peptide-1 (GLP-1) receptor agonist – stimulates glucose-dependent insulin release, slows gastric emptying, reduces food

### Dosing

0.25 mg SC once weekly x 4 weeks □ 0.5 mg SC once weekly x 4 weeks □ 1 mg SC once weekly x 4 weeks □ 1.7 mg SC once weekly x 4 weeks □
 2.4 mg SC once weekly

### **DEA Schedule**

Not scheduled





#### Semaglutide = Ozempic® Rybelsus® (diabetes management)

## Semaglutide (Wegovy®)

#### Contraindications/Warnings

- Pregnancy
- Personal/family history medullary thyroid cancer [Boxed warning]
- Moderate/severe renal impairment
- History of pancreatitis

#### Adverse Effects

- Gastrointestinal nausea, vomiting, diarrhea, constipation
- Acute pancreatitis
- Gallbladder disease
- Hypoglycemia

#### **Drug Interactions**

• Other hypoglycemic agents





### **History of Weight Loss Medications**







## Phentermine (Adipex-P®, Lomaira®)

### Mechanism of action

 Amphetamine analog: Stimulates release of norepinephrine in hypothalamus reduced appetite

### Dosing

- 15, 30, or 37.5 mg daily (1-2 doses daily)
  - Adipex-P = 37.5 mg; Generic = 15, 30, 37.5 mg
- Lomaira: 8 mg three times daily before meals

### **DEA Schedule**





## Phentermine (Adipex-P®, Lomaira®)

#### **Contraindications/Warnings**

- Pregnancy
- Hyperthyroidism
- Glaucoma
- MAO inhibitor within 14 days

#### **Adverse Effects**

- Nervousness
- Dry mouth
- Insomnia
- Increased heart rate/blood pressure

#### **Drug Interactions**

• MAO inhibitors





### Phentermine (Adipex-P®, Lomaira®)

#### **Contraindications/Warnings**

- Pregnancy
- Hyperthyroidism
- Glaucoma
- MAO inhibitor within 14 days

#### **Adverse Effects**

- Nervousness
- Dry mouth
- Insomnia
- Increased heart rate/blood pressure

#### **Drug Interactions**

• MAO inhibitors

Caution in cardiovascular disease/do not use in uncontrolled hypertension





- No head-to-head comparison studies of approved medications
- Meta-analysis of 28 RCTs (n=29,018)

Medication	Mean weight loss versus placebo	≥ 5% weight loss (OR)	<u>&gt;</u> 10% weight loss (OR)	Discontinuation due to adverse event (OR)
Phentermine/topiramate	-8.80 kg	9.22	11.40	2.29
Liraglutide	-5.24 kg	5.54	4.99	2.95
Naltrexone/bupropion	-4.95 kg	3.96	4.19	2.64
Orlistat	-2.63 kg	2.70	2.42	1.84

*Meta-analysis completed in 2016; Semaglutide not yet approved for weight loss* 

VA/DoD Clinical Practice Guideline for the Management of Adult Overweight and Obesity.





Medication	Glycemic measures	Blood pressure	Lipids
Phentermine/topiramate	+++	++	++
Liraglutide	++++	++	++
Naltrexone/bupropion	++	Unfavorable	+
Orlistat	+++	++	++





• Semaglutide (Wegovy®) – STEP 1 Study

- n=1,961 adults (BMI  $\geq$  30 or  $\geq$  27 + comorbidity) WITHOUT diabetes
- 68 weeks of treatment with once-weekly SC semaglutide 2.4 mg or placebo

Endpoint	Semaglutide	Placebo	
Percentage mean change in body weight from baseline	-14.9%	-2.4%	
	Treatment difference: -12.4% (95% CI -13.4 to -11.5, p<0.001)		
Change in body weight	-15.3 kg	-2.6 kg	
$\geq$ 5% weight loss	86.4%	31.5%	
≥ 10% weight loss	69.1%	12%	

- Semaglutide improvement in cardiometabolic risk factors
- Most common adverse events nausea, diarrhea (more patients discontinued semaglutide vs. placebo)





### • Clinical guidelines:

- Agents approved for long-term use preferred
- No agent preferred over another

### Individualized approach

- Side effects
- Cautions/contraindications
- Drug interactions
- Weight-related complications and medical history





	Orlistat	Phentermine/	Naltrexone/	Liraglutide	Semaglutide	Phentermine
		Topiramate	Bupropion			
Type 2 Diabetes				$\rightarrow$	*	
Hypertension			Contraindicated in uncontrolled HTN			
Cardiovascular disease (CAD)				$\rightarrow$	$\mathbf{x}$	
Arrhythmia		May increase HR	May increase HR			May increase HR
Seizure disorder			Lowers seizure threshold			
Opioid use		Caution in hx of drug abuse	Opioid antagonist			Caution in hx of drug abuse
Hyperthyroidism/ Glaucoma		Contraindicated	May trigger angle closure glaucoma			Contraindicated
Thyroid cancer				Contraindicated	Contraindicated	
Pregnancy		REMS program				
Key: Green = safe to use; Yellow = use with caution; Red = contraindicated						





### Renal and hepatic impairment

May require dosage adjustments Limited data in severe impairment

### Gallbladder disease

Orlistat, liraglutide, and semaglutide

### Pancreatitis

Avoid liraglutide and semaglutide





## Monitoring of Therapy

- Medication-specific parameters
- Weight loss

Assess patients monthly x 3 months, then at least every 3 months

Orlistat, Qsymia, Contrave, Wegovy

 Discontinue if < 5% weight loss at 12 weeks Saxenda

 Discontinue if < 4% weight loss at 16 weeks

Remember: Phentermine (Adipex-P®, Lomaira®) not recommended for use beyond 12 weeks.



## Weight Regain

### STEP 1 Trial Extension

- STEP 1 Study
  - n=1,961 adults (BMI  $\geq$  30 or  $\geq$  27 + comorbidity) WITHOUT diabetes
  - 68 weeks of treatment with once-weekly SC semaglutide 2.4 mg or placebo
- Extension: 327 patients followed for additional 52 weeks off-treatment
   228 – semaglutide; 99 - placebo







### New Drug Poised to Take Weight-Loss Throne

Eli Lilly's Mounjaro is outperforming Ozempic in clinical trials



By Steve Huff, Newser Staff Posted Apr 9, 2023 2:25 PM CDT









- GLP-1/GIP receptor agonist
- Once-weekly subcutaneous injection
- SURPASS-2 trial:
  - Tirzepatide vs. semaglutide 1 mg
  - 1800 patients with type 2 diabetes
  - Primary end point: change in A1C from baseline to 40 weeks
  - A1C reduction: tirzepatide (2.3%) > semaglutide (1.86%)
  - Weight reduction: tirzepatide > semaglutide







### • SURMOUNT-1:

- Tirzepatide vs. placebo
- 2539 patients withOUT diabetes
- Primary end points (72 weeks):
  (1) % change in weight from baseline
  (2) weight reduction of 5% or more













### • SURMOUNT-2: estimated completion April 2023

- Tirzepatide vs. placebo
- 900 patients with type 2 diabetes
- Primary end points (72 weeks):
  (1) % change in weight from baseline
  (2) weight reduction of 5% or more

### October 2022: FDA granted Fast Track designation for weight loss





## **Pharmacists' Roles**

### Outpatient settings

- Patient assessment & design of individualized treatment plans (nonpharmacological and pharmacological)
- Risk-benefit analysis for pharmacological interventions
- Appropriate use of pharmacotherapy

### Inpatient settings

- Medication reconciliation
- Medication management for patients undergoing bariatric surgery
- Patient education & transitions of care





## **Considerations in Managed Care**

- Patient & provider perceptions
- Patient access
- Adherence
- Clinical burden of obesity





## **Considerations in Managed Care**

### Popularity of Ozempic, Mounjaro, similar drugs may be driving shortages for people with diabetes, obesity

Doctors say too many people are obtaining the drugs despite not being obese.





https://abcnews.go.com/Health/popularity-ozempic-mounjaro-similar-drugs-driving-shortages-people/story?id=97356709





## **Considerations in Managed Care**

### Coverage of pharmacotherapy

- Medicare
  - Medications for weight management excluded from Part D
  - Medicare Advantage plans may offer expanded coverage for weight loss treatment plans
- Medicaid
  - Optional coverage, varies from state to state
- Private
  - Varies
  - Requirements prior authorization, step therapy, etc





## **Quality Measures in Obesity**

• Centers for Medicare & Medicaid Services (CMS)

- Preventive Care and Screening: BMI Screening and Follow-Up Plan Percentage of patients with BMI documented within previous 12 months AND had a follow-up plan documented (if BMI was outside normal parameters)
- Increased screening 
   increasing diagnosis
   increased
   action plans
   reduced health care costs





## **Health Care Costs**

• Retrospective analysis of 15,000 patients (2012-2018):

• Significant health care cost savings for patients achieving clinically meaningful weight loss (lifestyle interventions and pharmacotherapy)

### • Modeling studies:

- Moderate/extensive expansion of coverage for lifestyle intervention with or without pharmacotherapy 
  increased treatment utilization 
  ~\$20 billion in savings over 10 years
- 100% uptake of pharmacotherapy by Medicare/Medicaid 
  ~\$200 billion savings over 75 years





## Summary

- Obesity can predispose patients to a number of comorbidities
- Lifestyle intervention is the foundation of effective weight management initiatives
- Several medications are FDA-approved for management of obesity
- Several barriers pose a challenge to widespread obesity treatment

# Management of Obesity

Cynthia Moreau, PharmD, CPh, BCACP, CDCES Clinical Pharmacist ChenMed cynthia.moreau@chenmed.com


# Value Framework Assessments

How Health Care Systems and Payers Can Use Data to Inform Decision-Making



# **Learning Objectives**

- 1. Understand the need for value framework assessments
- 2. Describe the different types of value framework assessments in the U.S.
- 3. Discuss how U.S. payers will utilize value framework assessments in the future



# **Faculty Disclosure**

Dr. Cynthia Miller does not have any conflicts of interest associated with this presentation.



# **Pretest Question 1**

U.S. spend drivers include all of the following except:

- a. More chronic conditions
- b. New therapies and technologies
- c. An aging population
- d. Health inequities
- e. A higher number of uninsured



# **Pretest Question 2**

All of the following are true, except:

- a. ICER uses QALYs as part of its framework
- b. The AHA/ACA conducts their own trials for cost-effectiveness
- c. NCCN is designed to be used in shared decision making between the patient and provider
- d. Real world evidence allows us to address the evidence-efficacy gap



# **Pretest Question 3**

Which of the following are ways that the U.S. is moving towards a more value focused assessment:

- a. The Inflation Reduction Act
- b. FDA requirement for Patient Reported Outcomes in trials
- c. FDA focus on real world evidence generation
- d. Both A and C
- e. A, B and C

# Do we really have a spending problem?

# Higher Spend ≠ Better Outcomes<sup>1,2</sup>

#### **Spend and Resources**

- Higher spend percent of GDP, per person
- Lowest rate of practicing physicians and hospital beds

#### **Outcomes**

- Lowest life expectancy at birth
- Highest death rate for avoidable/treatable conditions
- · Highest infant and infant mortality
- Highest rate chronic conditions



Notes: \* 2020 data. Current expenditures on health for all functions by all providers for all financing schemes. Data points reflect share of gross domestic product. Based on System of Health Accounts methodology, with some differences between country methodologies. GDP = gross domestic product. OECD average reflects the average of 38 OECD member countries, including ones not shown here.

Data: OECD Health Statistics 2022

Source: Munira Z. Gunja, Evan D. Gumas, and Reginald D. Williams II, U.S. Health Care from a Global Perspective, 2022: Accelerating Spending, Worsening Outcomes (Commonwealth Fund, Jan. 2023). https://doi.org/10.26099/8ejy-yc74

-

We are not getting the same value and the outcomes for the amount spent as other countries

#### The U.S. is a world outlier when it comes to health care spending.

# What is behind rising costs?<sup>4,5</sup>

### Cost drivers =

### Increased use of services:

 Aging population, more insured, more chronic conditions

### + Intensity of services:

New therapies and technologies

**44%** increase in the number of adults aged 65 and older from 2020-2040

50% of American adults have at least one

chronic disease

### **Case Study:** Accelerated approval and the FDA<sup>8</sup>



A rise in spend has highlighted potential need for reform in approval processes

# Health inequities are leading to higher spend<sup>12</sup>

- \$320 billion annual health care spend
- In 2040, \$1 trillion annual health care spend (if unaddressed; \$11.8 trillion of total spend)
- \$42 billion in lost productivity per year
- Late diagnosis, delayed care, poor access, income disparities, limited access to scientific advances and prevention

Risk for (	Risk for COVID-19 Infection, Hospitalization, and Death by Race/Ethnicity <sup>17</sup>						
Rate ratios to White, I persons	s compared Non-Hispanic	American Indian or Alaska Native, Non-Hispanic persons	Asian, Non- Hispanic persons	Black or African American, Non- Hispanic persons	Hispanic or Latino persons		
Cases <sup>1</sup>		1.5x	0.8x	1.1x	1.5x		
Hospitaliz	ation <sup>2</sup>	2.5x	0.7x	2.1x	1.9x		
Death <sup>3, 4</sup>		2.1x	0.8x	1.6x	1.7x		

Race and ethnicity are risk markers for other underlying conditions that affect health, including socioeconomic status, access to health care, and exposure to the virus related to occupation, e.g., frontline, essential, and critical infrastructure workers.

Note: Adjusting by age is important because risk of infection, hospitalization, and death is different by age, and age distribution differs by racial and ethnic group. If the effect of age is not accounted for, racial and ethnic disparities can be underestimated or overestimated.



Addressing health inequities may mitigate rising spend

# The Quintuple Aim: A Solution?<sup>20,21</sup>

- Pay-for-performance (P4P) and value-based contracts are becoming more common
  - Key quality measures reported publicly
  - Emphasis and rewards (internally and externally)
- Many systems are struggling to succeed in this newly incentivized and rapidly changing environment
- Value-based programs are exposing high-cost areas in the health care system and increasing transparency





Focusing on quality, costs, and health equity through value-based arrangements may help solve the spending problem

# How are we doing? Not so great <sup>23,24</sup>

Comparison	2017	2022
Fee for Service	41%	40.5%
FFS + Quality	25.4%	19.5%
APM	29.8%	32.6%
Population health	3.8%	7.4%

#### Savings:

- ACO\* 0.4%-6.1%
- Bundled payments: \$453-\$1166 per episode
- Capitated: Full risk savings: \$161 pmpy\*\* or 3.6% lower than no risk https://www.healthaffairs.org/do/10.1377/hpb20221014.526546/



Most surveyed payers believe that the number of advanced payment models will increase and drive practice transformation efforts, resulting in better quality and more affordable care

\*ACO = Accountable Care Organization; \*\*pmpy = per member per year

# How might we translate this to drug pricing?<sup>25</sup>





A new model based on value rather than volume may upend the rebate-based system



### What is a Value Framework Assessment?<sup>2,26</sup>

### Health Technology Assessment (HTA)<sup>27</sup>

"Health technology assessment is a multidisciplinary process that uses explicit methods to determine the value of a health technology at different points in its lifecycle. The purpose is to inform decision-making in order to promote an equitable, efficient, and high-quality health system." – ISPOR Value Framework Assessment

Frameworks that inform discussions about how to define and assess value at various levels of the US health care system Some terms: Opportunity cost Cost-benefit/cost-effectiveness Societal perspective Patient-centered outcomes Quality Adjusted Life Years (QALY) Cost-effectiveness ratio



HTAs are commonly used in Europe to determine coverage based on pricing

# What do US payers do today to assess value?<sup>28</sup> Survey says:

How payers assess value (P&T\* Pharmacy committee)

- Expected cost and clinical benefits
- Medical necessity
- Appropriate use
- Therapeutic alternatives
- Treatment class

How payers implement value assessments ("Value" Committee)

- Noncoverage
- Tiering
- Step therapy
- Prior authorization
- Preferred products



US payers rely on utilization management rather than a government entity to determine coverage and utilization

\*P&T = Pharmacy and Therapeutics

# Value-based pricing models do exist in the US<sup>30</sup>



Image above taken from Avalere Health LLC. <sup>34</sup>



While US payers have implemented some value-based pricing, these pricing constructs are difficult to scale, are fragmented, and remain proprietary

# Value Framework Assessments (VFAs) in the US<sup>31</sup>

### Non-oncology

- CMS (Centers for Medicare and Medicaid Services)
- ACC/AHA (American College of Cardiology/American Heart Association)
- ICER (Institute for Clinical and Economic Research)

### Oncology

- ASCO (American Society of Clinical Oncology)
- MSKCC (Memorial Sloan Kettering Cancer Center)
- NCCN (National Comprehensive Cancer Network)



Although these are the major recognized VFAs in the US, there are additional models

### **CMS as a Value Framework Assessment Entity:** The Inflation Reduction Act<sup>32,33</sup>

### Value Assessment Provisions

- HHS secretary negotiates maximum prices for select brand-name drugs covered under Part B and Part D
- Manufacturers submit product information (manufacturing, government support, patent)

#### AND

supporting evidence (comparative data

and effectiveness, unmet need)



Implementation of the Inflation Reduction Act is expected to reduce innovation in the long term. The Congressional Budget Office estimates that there will be a reduction of new drugs by 1% over 30 years<sup>33</sup>

### What is new?

- Supply side vs demand side
- Research and development costs
- Production and distribution costs





While ICER often identifies a cost-effective price, this has not led to price reductions

## **ICER Example: Product X for Disease A**

**Disease A** affects large part of US population and does not have a cure

### **Product X**

- \$80,000/year treatment
- incremental cost-effectiveness ratio \$20,000
- Incremental QALYs 0.6
- Delays disease progression

### **Cost comparison**

• Product X TCOC \$400,000



**Comparative Clinical Effectiveness** 

Image above taken from ICER<sup>35</sup>

TERMS: QALCO-CASALDO, Digsted life years; SOC = standard of care; TCOC = total cost of care



QALYs incorporate both the delay of disease progression and any side effects that may detract from quality of life

## American College of Cardiology/ American Heart Association<sup>2</sup>



### Framework

- Cost-effectiveness analysis
- Assign "level of value"
  - QALYs
  - Level of evidence
- Population-level

### Orientation

- Clinical pathways
- Guidelines

### Limitations

- Rely on published cost-effectiveness studies
- Limited to specific focus around cardiology



The ACC/AHA model has assisted in writing guidelines and pathways that are most cost-effective in the area of cardiology for not only medications but also procedures



#### **2022 Heart Failure Guidelines**

"In patients with previous or current symptoms of chronic HFrEF, in whom ARNi is not feasible, treatment with an ACEi or ARB provides high economic value"<sup>36</sup>

- Based on 7 cost-effectiveness trials
- Rated as "high" in the table entitled "Value Statements"





The ACC/AHA model may incorporate findings from multiple cost-effectiveness studies to create a value statement

# **Oncology Frameworks**<sup>37,38,39,40</sup>

### ASCO/NCCN

- Benefits and harms
- Shared decision-making
- Drug costs from provider/patient perspective
   MSKCC
- DrugAbacus calculator
- Policymakers
- Willingness to pay vs innovation and development



### **NCCN Evidence Blocks Categories and Definitions**

- E = Efficacy of Regimen/Agent
- S = Safety of Regimen/Agent
- Q = Quality of Evidence
- C = Consistency of Evidence
- A = Affordability of Regimen/Agent



Oncology frameworks are used to make individual-level decisions and to inform clinical pathways

## **ASCO Example<sup>38</sup>**

### Case:

**Drug A** is the standard of care for Disease X.

**Drug B** was testing in a clinical trial against Drug A. The two drugs showed equal overall survival and toxicity levels.





ASCO's HTA is limited to drugs with head-to-head clinical trials

### How do they compare?

	Stakeholders	Methods	Purpose
CMS	Pharma, PBMs	Price setting, negotiation	Drug Pricing
ICER	Payers, Pharma	Internal Cost-Effectiveness model	Coverage/Reimbursement
ACC/AHA	Physicians	Evaluate published cost-effectiveness trials to establish value statement	Inform Clinical Pathways/Guidelines
ASCO	Physicians, Patients	Evaluation Head-to-Head Trials	Shared Decision Making
NCCN	Physicians/, Patients	Expert Panel Literature review	Shared Decision Making
MSKCC	Policymakers	Abacus calculator	Drug Pricing



When using VFAs, it is important to recognize their intended purpose and limitations

### **Ex-US Models**<sup>41</sup>

- France
  - Commission for Transparency
- Germany
  - Institute for Quality and Efficiency in Health Care
- Switzerland
  - Federal Office for Public Health
- England
  - National Institute for Health and Care Excellence (NICE)



Ex-US HTA evaluation can lead to pricing negotiations or coverage decisions that differ from the US

# The Future of VFA: Real-World Evidence (RWE)<sup>42,43,44</sup>

### The Efficacy Evidence Gap

**Pros**: real-world treatment patterns, safety, and comparative effectiveness

**Cons**: internal validity, reporting bias, data quality, observational, transparency

### Life Cycle Management

- Coverage with evidence development: studies can be expensive, costly, and lengthy
- NICE temporary reimbursement for therapies (cancer) for 2 years



RWE allows us to understand how a medication works for the larger population and to evaluate its efficacy and safety over the long-term

# **Case Study: Hereditary Angioedema**<sup>42</sup>

- 24-month RWE update for hereditary angioedema prophylactic therapies (post-launch)
- Pre-launch: attack rate 3.39, \$/QALY
- 24 months post-launch: attack rate 1.88, \$/QALY

 Table 3.3. Comparison of 2018 and Observational RWE Update Base-Case Results for HAE

 Prophylaxis versus no Prophylaxis

Treatment	2018 Report Cost per QALY gained	Observational RWE Update Cost per QALY gained		
Cinryze	\$5,950,000	\$30,070,000		
Haegarda	\$328,000	\$13,430,000		
Takhzyro	\$1,110,000	\$12,370,000		
QALY: quality-adjusted life year				



Real-world evidence can be used to validate assumptions in cost-effectiveness models to improve their accuracy

How do we elevate value in the **US health care** system?

### **Payers and use of VFA:** What's the core problem?<sup>2,28,35</sup>

### Policy

- CMS does not allow for cost-per-QALY thresholds in decision-making
- QALYs are controversial

### **US Customer Expectations**

Tension between innovation, access, and cost

### Implementation

Outcomes-based pricing is resource intensive and lacks proven savings



Significant conflicts of interest and incentive misalignment lead to difficulties implementing value framework assessments in the US

# What is the future of payers and VFA?<sup>46</sup>

### **Government policy**

- Intermediary solutions (IRA, Biden new budget proposal)
- Segmented strategic approach

### Increased use of real-world evidence

• FDA focus on evaluating RWE

#### Incorporation of patient-reported/patient-centered outcomes (PROs)

• FDA requiring PROs in trials to understand impact on the patient



A government/policy approach will likely encourage use of HTAs for pricing discussions



# Will VFAs help us get more for our money?



# **Post-test Question 1**

U.S. spend drivers include all of the following except:

- a. More chronic conditions
- b. New therapies and technologies
- c. An aging population
- d. Health inequities
- e. A higher number of uninsured



# **Post-test Question 2**

All of the following are true, except:

- a. ICER uses QALYs as part of its framework
- b. The AHA/ACA conducts their own trials for cost-effectiveness
- c. NCCN is designed to be used in shared decision making between the patient and provider
- d. Real world evidence allows us to address the evidence-efficacy gap



# **Post-test Question 3**

Which of the following are ways that the U.S. is moving towards a more value focused assessment

- a. The Inflation Reduction Act
- b. FDA requirement for Patient Reported Outcomes in trials
- c. FDA focus on real world evidence generation
- d. Both A and C
- e. A, B and C
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# Value Framework Assessments

How Health Care Systems and Payers Can Use Data to Inform Decision-Making

# Break Networking Exhibits



## Federal Legislative Update: Inflation Reduction Act

### Moderated by Jennifer L. Mathieu, MA Senior Vice President, Professional & Government Affairs, AMCP



## **Learning Objectives**

- Explain the basic timeline for Medicare drug price provisions
- 2. Describe how the IRA will impact drug affordability
- 3. Identify potential unintended consequences of IRA requirements



## **Panelists**





Shawn Barger, PharmD

Director, Medicare Formulary Strategy Aetna



#### Javier Gonzalez, PharmD

Chief Growth & Commercial Officer Abarca Health



#### Cynthia Griffin, PharmD

Vice President, Medicare Pharmacy Programs Florida Blue



## **Panelists**





#### Jonathan Hickman, PharmD

Medical Executive Director Genentech



#### **Ashley Peterson, MHA**

Medicaid Pharmacy Director, Contracting & Analytics Artia

# Inflation Reduction Act Overview









Debt ceiling, inflation, military aid to Ukraine crowding out other issues





### Inflation Reduction Act (H.R. 5376)

- Originally introduced as the Build Back Better Act by Congressman John Yarmuth (D-KY-03)
- Signed into law by President Biden on August 16, 2022
- Drug pricing provisions include:
  - Drug price negotiation program
  - Inflationary rebates
  - Part D redesign

 Enhances payments for biosimilars, extends expanded Affordable Care Act (ACA) tax credits, and delays the Trump-era Rebate Rule





### Inflation Reduction Act – Drug Pricing Provisions

### Drug Price Negotiation Program

 Requires government negotiation of the prices of certain prescription drugs under Medicare beginning in 2026

### Inflationary Rebates

 Requires manufacturers to pay rebates for certain drugs paid under Medicare Parts B or D if their average price increases faster than the rate of inflation

### • Part D Redesign





# Inflation Reduction Act – Other Healthcare Provisions

### Enhanced Payments for Biosimilars

 Temporarily increases the Part B add-on payment for qualifying biosimilars from 6% to 8% of the reference product's Average Sales Price for a 5-year period

### Extension of Expanded ACA Premium Tax Credit

• Extends the temporary ACA premium tax credit expansions that were included in the American Rescue Plan Act through 2025

### Rebate Rule Delay

 Prevents implementation or enforcement of the Trump-era Rebate Rule until January 1, 2032







Slide designed by Melissa Andel, MPP, Principal, CommonHealth Solutions LLC.





# Inflation Reduction Act – Regulatory Implementation

• January 11 - HHS issued a timeline for implementation of IRA:

 CMS will seek feedback on implementation through a series of 3 information collection requests (ICRs) and will issue draft guidance to solicit comments on key elements of the Medicare Drug Price Negotiation Program.

• Among the key dates:

- By Sept. 1, 2023, CMS will publish the first 10 Medicare Part D drugs selected for the Medicare Drug Price Negotiation Program.
- The negotiated maximum fair prices for these drugs will be announced by Sept. 1, 2024 and prices will be effective starting Jan. 1, 2026.
- CMS will select 15 additional Part D drugs for 2027, 15 more Part B or Part D drugs for 2028, and 20 more Part B or Part D drugs for each subsequent year.





# Inflation Reduction Act – Regulatory Implementation

- Center for Medicare and Medicaid Innovation (CMMI) announced the selection of three new healthcare payment and delivery models that will test relating to the prescription drug provisions of the Inflation Reduction Act (IRA), with the intent of lowering drug costs and promoting access to innovative drug therapies.
- Medicare Part D manufacturer discount program (MDP) beginning Jan. 1, 2025
- Participating manufacturers must enter into agreements with CMS by Mar. 1, 2024 to participate in the MDP in 2025.





# Inflation Reduction Act – Regulatory Implementation

- On Feb. 7, 2023, CMS issued an information collection request under the Paperwork Reduction Act of 1995 (PRA). Information in this collection is needed to set up agreements between manufacturers and CMS. Note that this is a notice about CMS' intention to collect this information and comments can be submitted until April 10, 2023.
- Information will be collected from respondents electronically, through HPMS.







			Ja P ta	a <b>n. 20</b> : art D r ikes ef	<b>25:</b> Full edesign fect			
	Sept. 2023: Initial 10 Part D drugs selected for negotiation identified	<b>Sept. 2024:</b> Negotiated price for initial Part D drugs published		Sept. 2025: Selection of 15 Part D drugs for negotiation for CY 2027		o Part CY	Jan. 2027: Second 15 negotiated prices effectiv	e
2022	2023	2024	20	25	202	26	2027	
Oct. 2022: Inflation penalt rebates for Par D drugs begin	y t	Late 2025: CMS begins sending inflation penalty rebate invoices to	)	<b>Ј</b> 1 р	an. 2026: 0 negotiat rices effec	First ted ctive	?	How does a pote Presidential admin implement

ential change in nistration impact implementation?

Source: Congress.gov. H.R. 5376, Inflation Reduction Act of 2022. Slide designed by Melissa Andel, MPP, Principal, CommonHealth Solutions LLC.

manufacturers





Understand relationship between and commercial market exposure of drugs selected for negotiation



Consider how increased uncertainty in generic/biosimilar market could have ripple effects

%

Consider Medicare market exposure for new drugs and how inflation penalty rebates may influence launch prices



Slide designed by Melissa Andel, MPP, Principal, CommonHealth Solutions LLC.

## **Panel Discussion**



## **Panelists**





Shawn Barger, PharmD



Javier Gonzalez, PharmD



#### Cynthia Griffin, PharmD



Jonathan Hickman, PharmD



#### **Ashley Peterson, MHA**

# Lunch Networking Exhibits

# Kahoot Game

https://create.kahoot.it/share/amcp-day-education-2023-kahoot-2/e325b175-b2a0-4335-9e 4a-62b457e8f002



## The Evolving Biosimilars Landscape: Panel Discussion

### Moderated by Wendy Bailey, RPh, BS Pharm, MS Pharm, MBA

Vice President, Health Plan Pharmacy Strategy, Centene Corporation



## **Learning Objectives**

- 1. Discuss the current level of understanding of biosimilars in the marketplace
- 2. Describe the scientific evidence that supports the use of biosimilars, interchangeability, and the adoption of biosimilars in the healthcare community
- 3. Identify nuances between medical and pharmacy billing/dispensing for biosimilars



## **Panelists**





Jorge Garcia, PharmD, MS, MHA, MBA, FACHE Assistant Vice President -System Oncology Pharmacy Service Line

Baptist Health South Florida

#### Jennifer Miles, PharmD, BCACP, **BCMTMS**

Assistant Director of Ambulatory Clinical Pharmacy Services

Jackson Health Ambulatory Care





**Richard Gourash, RPh,** Vice President of Oncology

**BioPlus Specialty Pharmacy** 

**MBA** 

**David Fox, PharmD** Administrator of Clinical Pharmacy Services

Florida Healthcare Plan

## **Biosimilar Overview**





## **Biosimilar History**



- The European Medicines Agency (EMA) developed guidelines for the approval of biosimilars in 2005.
- Omnitrope (somatropin) was the first biosimilar approved in the EU in 2006.
- The Biologics Price Competition and Innovation Act was signed into law in 2010, paving the way for biosimilars in the US.
- Filgrastim-sndz (Zarxio) was the first biosimilar approved in the US on March 6, 2015.



USA

Εl

- Adoption of biosimilars was slow due to negative messaging from innovator/originator companies.
- Both the Ensuring Innovation Act and the Advancing Education on Biosimilars Act were signed into law on April 23, 2021.







### Biosimilars launched to date account for 24% of competitive molecule volume

Exhibit 4: Percentage of biologics sales accessible to approved and launched biosimilars and biosimilar efficiency, Q1 2015–Q3 2022









Since 2007, 30 biosimilars have launched in the U.S. with 10 more approved and set to launch by the end of 2023



Exhibit 5: Biosimilars approved and launched in the U.S.

Source: IQVIA Institute, Dec 2022.



## **Future State**



Expected launches and uptake are likely to increase overall spending on biosimilars significantly to \$20–49Bn in 2027

Exhibit 21: Biosimilar historical sales 2013–2022 and outlook scenarios 2023–2027, US\$Bn



Source: IQVIA MIDAS, Jun 2022; IQVIA Institute, Nov 2022.



## **Future State**



### Savings over the next five years as a result of biosimilars are projected to exceed \$180Bn, though uncertainties remain







## **Future State**



#### Entry of new immunology biosimilars in 2023 will increase competition in a rapidly growing market

Exhibit 23: Historic and future immunology volume in defined daily doses (DDDs) by biosimilar competition, 2013–2027



Source: IQVIA MIDAS, Jun 2022; IQVIA Institute, Dec 2022.






Source: IQVIA: Accessed via IQVIA National Sales Perspective (NSP) SMART Data. (October 2021).



#### **Payer/PBM Formulary Considerations**



- Will Biosimilar Partners Commit Long Term and Deliver Value
- Patient Support- Copay/Device Replacement
- Rebate Strategy can be a Defensive Maneuver to Preserve Brand Market Share Payer/PBM Execution Risk in Removing/Disadvantaging Brand
- Brand Company Lowers Price/Offers Non-Branded Products Will This Discourage Pharma-Companies to Invest in Biosimilars
- Can Biosimilars Bring Value Outside of the Initial Innovator Product? Biosimilar Humira Vs Other TNFs or Interleukins (ie. IL 17, IL 23, IL 12-23)



# **ASP Trends**



Figure 5. Downward Trend in ASP for Biosimilars and Reference Products Over Time<sup>8,†</sup> 25% **NEUPOGEN®\*** 209 **GRANIX®** 15% ZARXIO® NIVESTYM 10% Price, Neulasta<sup>®</sup> 5% **Fulphila®** 0% and Biosimilar **UDENYCA®** -5% ----**ZIEXTENZO®** -10% Launch **NYVEPRIA™** -----15% Avastin<sup>®</sup> -20% **MVASI<sup>®</sup>** Biosimilar -25% ZIRABEVTM oduct -30% Herceptin -359 **KANJINTI<sup>®</sup>** à ollowing | -409 Ogivri<sup>®</sup> Reference **TRAZIMERA<sup>TM</sup>** -45% **HERZUMA®** -50% **ONTRUZANT®** LL -55% .= REMICADE® -60% Change i **INFLECTRA®** -65% **RENFLEXIS®** -70% **AVSOLA®** -75% EPOGEN<sup>®</sup> -80% RETACRIT -85% **RITUXAN®** -90% TRUXIMA® 0 2 3 5 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 1 4 6 7 8 **RUXIENCE<sup>TM</sup>** Quarters Since First Biosimilar in Class to Launch RIABNI -----

#### Source: Amgen 2022 Biosimilar Trend Report



# The Evolving Biosimilars Landscape: Panel Discussion

#### Moderated by Wendy Bailey, RPh, BS Pharm, MS Pharm, MBA

Vice President, Health Plan Pharmacy Strategy, Centene Corporation



# Health Equity in Health Car

Shanada Monestime, PharmD, BCOP Director, Community Engaged Research GO2 for Lung Cancer





#### Disclosures

#### • Research is supported by

- Bristol Myers Squibb
- Merck Corporation
- Sanofi
- Mirati Therapeutics





### **Learning Objectives**

- Discuss local/national health care performance and historical factors that result in health inequities
- Describe the social and structural factors that contribute to different health outcomes in marginalized populations
- Understand the interconnections and relationships between individual outcomes, socioeconomic context, and systemic barriers contributing to health inequalities
- Summarize how various stakeholders can advance health equity in their practice or organization



#### Health Care Spending as a Percentage of GDP, 1980–2019

Percent (%) of GDP



Data: OECD Health Data, July 2021.

Source: Eric C. Schneider et al., Mirror, Mirror 2021 – Reflecting Poorly: Health Care in the U.S. Compared to Other High-Income Countries (Commonwealth Fund, Aug. 2021). https://doi.org/10.26099/01DV-H208

#### Health Care System Performance Compared to Spending



Note: Health care spending as a percent of GDP. Performance scores are based on standard deviation calculated from the 10-country average that excludes the US. See How We Conducted This Study for more detail.

Data: Spending data are from OECD for the year 2019 (updated in July 2021).

Source: Eric C. Schneider et al., Mirror, Mirror 2021 – Reflecting Poorly: Health Care in the U.S. Compared to Other High-Income Countries (Commonwealth Fund, Aug. 2021). https://doi.org/10.26099/01DV-H208





#### EXHIBIT 1

#### Health Care System Performance Rankings

	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING	3	10	8	5	2	6	1	7	9	4	11
Access to Care	8	9	7	3	1	5	2	6	10	4	11
Care Process	6	4	10	9	3	1	8	11	7	5	2
Administrative Efficiency	2	7	6	9	8	3	1	5	10	4	11
Equity	1	10	7	2	5	9	8	6	3	4	11
Health Care Outcomes	1	10	6	7	4	8	2	5	3	9	11

Data: Commonwealth Fund analysis.

Source: Eric C. Schneider et al., Mirror, Mirror 2021 – Reflecting Poorly: Health Care in the U.S. Compared to Other High-Income Countries (Commonwealth Fund, Aug. 2021). https://doi.org/10.26099/01DV-H208





### What is Health Equity?

- Health equity provides everyone with a fair and just opportunity to be as healthy as possible
- Avoidable differences in health outcomes
- Removing obstacles to health such as poverty, discrimination, and their consequences, including powerlessness and lack of access to good jobs with fair pay, quality education and housing, safe environments, and health care



#### Profound racial and ethnic inequities in health and health care exist across and within states.

Health system performance scores, by state and race/ethnicity

All





Notes: Scores are based on the percentile distribution of each group's final composite z-score across all indicators/dimensions; rank-ordered by score of state's highest group. The 50th percentile represents the median health performance score among all the groups measured. Summary performance scores not available for all racial and ethnic groups in all states; missing dots for a particular group indicate that there are insufficient data for that state. AANHPI = Asian American, Native Hawaiian, and Pacific Islander; AIAN = American Indian/Alaska Native.

Data: Commonwealth Fund 2021 Health System Performance Scores.

Source: David C. Radley et al., Achieving Racial and Ethnic Equity in U.S. Health Care: A Scorecard of State Performance (Commonwealth Fund, Nov. 2021).





# "Of all the forms of inequality, injustice in health care is the most shocking and inhuman."





#### Why Health Equity Matters?





Direct medical care expenses from health disparities from 2003-2006, in which 1 trillion dollars could have been reduced in indirect cost by eliminating health disparities.<sup>2</sup>

 Delayed care and inadequate health care coverage may increase the cost of care exponentially

 Longer-term reliance on the health care system for preventable chronic diseases

 Lost productivity from illness-related employee absenteeism (costs employers \$530 billion per year)<sup>3</sup>

1. Turner, A., THE BUSINESS CASE FOR RACIAL EQUITY in A STRATEGY FOR GROWTH. 2018, W.K Kellog Foundation, 2. National Academies of Sciences, E., et al., in Communities in Action: Pathways to Health Equity, A. Baciu, et al., Editors. 2017, National Academies Press (US) 3. Poor Health Costs US Employers \$530 Billion and 1.4 Billion Work Days of Absence and Impaired Performance According to Integrated Benefits Institute. 2018: Integrated Benefits Institute





#### 2 People, Same Zip Code, Different Outcomes









#### **Social Determinants of Health**

- Conditions in which people are born, grow, live, work and age
- These circumstances are shaped by the distribution of money, power and resources at global, national and local levels







#### **Structural Racism**

- Laws and policies that allocate resources in ways that disempower and devalue members of racial and ethnic minority groups, resulting in inequitable access to high-quality care<sup>1</sup>
- Residential segregation
  - Redlining
  - Jim crow era





#### **Residential Segregation**<sup>1</sup>

- Home Owner Loan Corporation (HOLC) was established in 1933 for the purpose of stabilizing the mortgage lending system in the nation
- HOLC residential security maps neighborhoods classification:
- A "Best" areas, colored green
- B "Desirable" areas, colored blue
- C "Declining" areas, colored yellow
- D "Hazardous" areas, colored red



Number of days in the last month for which residents report "poor health"

High segregation

Low segregation ()

1. Jeramy Townsley, U.A., Matt Nowlin, *The Lasting Impacts of Segregation and Redlining*. 2021: SAVI





### Impact of Residential Segregation<sup>1,2</sup>

- Substandard housing
- Underfunded public schools
- Employment disadvantages
- Exposure to crime
- Environmental hazards
- Physician shortages
- Food deserts
- Health inequities/hospital closures
- Economic stress may induce "maladaptive" coping behaviors, such as smoking and alcohol use

1. Fiscella, K. and D.R. Williams, Health disparities based on socioeconomic inequities: implications for urban health care. Acad Med, 2004. **79**(12): p. 1139-47. 2. Gee, G.C. and D.C. Payne-Sturges, *Environmental health disparities: a framework integrating psychosocial and environmental concepts*. Environ Health Perspect, 2004. **112**(17): p. 1645-53







# Physical Environment<sup>1</sup>

- Communities of color are often disproportionately exposed to fine particles in the air called  $PM_{2.5}$
- In counties where Black people were highly segregated from White people, total PM<sub>2.5</sub> levels were twice as high as in well-integrated counties
- Populations living in racially segregated communities breathe a form of pollution that is much more concentrated in toxic, cancer-causing compounds





#### Health Care Access: Safety Net Providers<sup>1</sup>

- Safety-net providers play a valuable role in reducing health inequities because of their commitment to and experiences with underserved communities
- Tend to score lower on patient satisfaction surveys, underperform on evidence-based metrics, and report higher rates of adverse safety events and complications





# Safety Net Challenges<sup>1</sup>

- Influx of patients with complex biopsychosocial challenges
- Patients with low levels of health literacy require more time to explain treatment
- Posttraumatic stress management among refugees requires working across differences in language and cultural beliefs
- Specialty services are often not easily available for the uninsured
- Preventive care services may be neglected in the face of multiple and competing providers' demands





#### Health Care Access: Reimbursement

- Federal laws require reimbursement to be sufficient to ensure equitable access to high-quality health care for Medicaid beneficiaries
- Medicaid payments are notoriously low and have been cited as a reason for low provider participation<sup>1</sup>
- Numerous lawsuits have challenged low rates as violations of federal Medicaid requirements

In 2017, Medicaid beneficiaries and providers in California challenged rates on antidiscrimination grounds, alleging that the low Medicaid rates were discriminatory against the growing Latino population, creating "a separate and unequal system of health care"<sup>2</sup>

1. Clark BR. Medicaid access, rate setting, and payment suits: how the Obama Administration is undermining its own health reform goals. Howard L J 2012;55(3):771–853. <u>Google Scholar</u> 2. Mexican American Legal Defense and Education Fund [Internet]. Los Angeles (CA): MALDEF. Press release, Advocates file lawsuit alleging California's separate and unequal Medi-Cal system violates the rights of millions; 2017 Jul 12 [cited 2021 Dec 10]. Available from: https://www.maldef.org/2017/07/advocates-file-lawsuit-alleging-californias-separate-and-unequal-medi-cal-system-violates-the-right-of-millions/ Google Scholar ES Figure 1

# Private Payment Rates Are Higher Than Medicare Rates for Hospital and Physician Services

Average Private Insurance Rates as a Percentage of Medicare Rates, Across Studies Using 2010-2017 Data





SOURCE: KFF analysis of 19 published studies comparing private insurance and Medicare payments to providers. Because some studies analyze payments to providers in multiple service categories, the number of studies across all categories is greater than 19.





#### Health Care Access: Reimbursement

- Value-based payment reform is a Medicare pay-for-performance program to improve health care quality and reduce costs
- Programs do not account for social determinants of health when determining provider performance, ranking, and payment
- Safety-net providers serving low-income minorities are more likely to be penalized and receive lower Medicare reimbursement<sup>1</sup>





#### Health Care Access: Insurance Coverage

- Inadequate health insurance coverage is one of the largest barriers to health care access
- The unequal distribution of coverage contributes to disparities in health
- Many low-income employees to fall into the Medicaid coverage gap—unable to afford private insurance, not eligible for Medicaid or subsidies through the Affordable Care Act





#### Health Care Access: Insurance Coverage

- Medicaid expansion allows for more low-income individuals to qualify for Medicaid, without additional stipulations of pregnancy, children, elderly or having a disability
- Many states have not expanded Medicaid, which leaves high-risk patients who are in the low SES to go without insurance coverage, leaving significant coverage gaps





#### **Coverage: Medicaid Expansion**

- Reinforces racial hierarchy and results in inequities in coverage
- Evident in southern states with large numbers of Black and Latino residents



Figure: Status of State Action on the Medicaid Expansion Decision. 2023; Available from:

https://www.kff.org/health-reform/state-indicator/state-activity-around-expanding-medicaid-under-the-affordable-care-act/?activeTab=map &currentTimeframe=0&selectedDistributions=status-of-medicaid-expansion-decision&sortModel=%7B%22colld%22:%22Location%22,%22so t%22:%22asc%22%7D





#### **Health Care Access: Individual Barriers**

- Unfortunately, Americans too often do not receive the care they need, or they receive care that causes harm<sup>1</sup>
  - Provider Bias/Stigma<sup>2,3</sup>
  - Poor provider-patient communication<sup>4</sup>
  - Lack of cultural awareness<sup>5</sup>
- Care can be delivered too late or without full consideration of a patient's preferences and values<sup>1</sup>

1. HEALTHCARE QUALITY REPORT, in Highlights From the 2011 National Healthcare Quality and Disparities Reports. 2011: Agency for Healthcare Research and Quality 2. Sabin, J.A., *Tackling Implicit Bias in Health Care*. New England Journal of Medicine, 2022. 387(2): p. 105-107. 3. Nyblade, L., et al., *Stigma in health facilities: why it matters and how we can change it*. BMC Medicine, 2019. 17(1): p. 25. 4. Schut, R.A., *Racial disparities in provider-patient communication of incidental medical findings*. Soc Sci Med, 2021. 277: p. 113901. 5. Butler M, McCreedy E, Schwer N, et al. Improving Cultural Competence to Reduce Health Disparities [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2016 Mar. (Comparative Effectiveness Reviews, No. 170.) 1, Introduction. Available from: https://www.ncbi.nlm.nih.gov/books/NBK361130/





## Outcomes of Health Inequities<sup>1,2</sup>

- Ample evidence suggests that Black and Latino people receive lower-quality care compared with White people, even after insurance coverage and income are adjusted for
- Racial and ethnic minority patients are less likely to receive: Evidence-based cardiovascular care Kidney transplants when indicated Age-appropriate diagnostic screening for breast and colon cancer Timely treatment related to cancer and stroke Appropriate mental health treatment Adequate treatment when presenting suffering from pain

1. Structural Racism In Historical And Modern US Health Care Policy. Health Affairs, 2022. **41**(2): p. 187-194.2. Agency for Healthcare Research and Quality. 2019 national healthcare quality and disparities report [Internet]. Rockville (MD): AHRQ; 2020 Dec [last updated 2021 Jun; cited 2021 Dec 10]. Available from: <a href="https://www.ahrq.gov/research/findings/nhqrdr/nhqdr19/index.html">https://www.ahrq.gov/research/findings/nhqrdr/nhqdr19/index.html</a> Google Scholar

#### Comparative Health Care System Performance Scores



Source: Eric C. Schneider et al., Mirror, Mirror 2021 – Reflecting Poorly: Health Care in the U.S. Compared to Other High-Income Countries (Commonwealth Fund, Aug. 2021). https://doi.org/10.26099/01DV-H208





# High Performing Countries Solutions<sup>1</sup>

- 1. Provide for universal coverage and remove cost barriers so people can get care when they need it and in a manner that works for them
- 2. Invest in primary care systems to ensure that high-value services are equitably available locally in all communities to all people, reducing the risk of discrimination and unequal treatment
- 3. Reduce the administrative burdens on patients and clinicians that cost them time and effort and can discourage access to care, especially for marginalized groups
- 4. Invest in social services that increase equitable access to nutrition, education, child care, community safety, housing, transportation, and worker benefits that lead to a healthier population and fewer avoidable demands on health care

1. Eric Schneider, A.S., Michelle Doty, Roosa Tikkanen, Katharine Fields, Reginald Williams, Health Care in the U.S. Compared to Other High-Income Countries, in Mirror, Mirror 2021: Reflecting Poorly. 2021: The Commonwealth Fund.







- Offer treatment and screening to eligible patients
- Follow the "no"
- Inclusive support groups to support several marginalized patient needs





### **Health Care Systems**

- Representation in healthcare
- Establishing coordinated care models (i.e., navigators/telehealth services/social workers) through more systematic engagement
- Disaggregating data
- Recognize that biases may be unintentionally built into current algorithms and artificial intelligence platforms
- Reviewing formulary restrictions and exclusion policies





#### **Researchers/Academicians**

- Develop and test culturally appropriate educational materials for patients within your catchment area to improve health and health insurance literacy
- Implementation of community partnered/based participatory research




# Insurance Companies<sup>1</sup>

- Acknowledge and consider that racial disparities may exist in initial benefit design process
- Consider variable cost-sharing and premiums, such as on a sliding scale based on income
- Offer a preventive medication benefit with a low or \$0 copay
- Use automated tools such as real-time benefit checks and electronic prior authorization to assist those with less time or fewer resources to navigate benefits and utilization management
- Identify opportunities for new or revised programs around payment incentives or disincentives for health care providers who participate in equity efforts

AMCP Partnership Forum: Racial health disparities—a closer look at benefit design. Journal of Managed Care & Specialty Pharmacy, 2021. **28**(1): p. 125-131.





# It Takes a Village



GRANT FUNDING/RESEARCH **REVISING/DESIGNING** FRAMEWORKS

**BUILDING DEI** STRATEGY/ORGANIZ ATIONAL REBRANDING

PROGRAM DEPARTMENT **EXPANSION** 

COLLABORATION



# Thank you

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# Oncology Accelerated Drug Approvals that Lack Confirmatory Trials

Laura R. Bobolts, PharmD, BCOP SVP, Clinical Strategy and Growth OncoHealth Ibobolts@oncohealth.us





# **Learning Objectives**

- 1. Explain the FDA Accelerated Approval Program process and how it applies to medications used for oncology treatment.
- 2. Discuss indication withdrawals and failed confirmatory trials for oncology agents.
- 3. Review key clinical and financial implications when reviewing oncology medications approved via the Accelerated Approval Program pathway.





# What is the Accelerate Approval Pathway?

#### **Expedites authorization of new therapies that:**



Treat serious conditions, like cancer



Fill an unmet medical need



Based on surrogate endpoints, likely to predict clinical benefit (e.g., ORR, DOR)

Did the confirmatory trial use another surrogate endpoint?

Subject to post-marketing research, confirmatory trial(s), to confirm clinical benefit outweighs risks

Was the confirmatory trial done timely?

Has a confirmatory trial been done at all?

ORR = Overall Response Rate; DOR = Duration of Response; FDA. https://www.fda.gov/drugs/information-health-care-professionals-drugs/accelerated-approval-program





# Background

- Accelerated Approval Pathway developed by the FDA in 1992 in response to the HIV/AIDs crisis
- Codified into law under the Food and Drug Safety and Innovation Act (FDASIA) in 2012
- Majority Accelerated Approvals granted for oncology
  - Due to the serious & life-threatening nature of cancer
  - Can improve access to life-saving or life-prolonging therapy a median of 3.1 years before available otherwise
  - Availability of surrogate clinical endpoints in oncology

FDA. Project Confirm. https://www.fda.gov/drugs/information-health-care-professionals-drugs/accelerated-approval-program. Accessed April 1, 2023.





# **Oncology Surrogate Endpoints**

Measure thought to predict clinical benefit but is not itself a measure of clinical benefit



Clinical Trial Endpoints for the Approval of Cancer Drugs and Biologics Guidance for Industry. https://www.fda.gov/media/71195/download. Accessed April 1, 2023. NCI Dictionary of Cancer Terms, https://www.cancer.gov/publications/dictionaries/cancer-terms. Accessed April 1, 2023.





# **Expedited FDA Approval Programs**



Fast Track, Breakthrough Therapy, Accelerated Approval, Priority Review.

https://www.fda.gov/patients/learn-about-drug-and-device-approvals/fast-track-breakthrough-therapy-accelerated-approval-priority-review. Accessed April 2, 2023. Regenerative Medicine Advanced Therapy Designation.

https://www.fds.gov/wassings.hland.hislagics/callular.gove.thereny, products/regenerative.madicine.advensed thereny, designation. Assessed April 2, 2022

![](_page_190_Picture_0.jpeg)

![](_page_190_Picture_1.jpeg)

# How Do You Know it's an Accelerated Approval?

FDA states therapy is "granted accelerated approval" in indication announcement on FDA's website

On November 14, 2022, the Food and Drug Administration granted accelerated approval to mirvetuximab soravtansine-gynx (Elahere, ImmunoGen, Inc.) for adult patients with folate receptor alpha (FR $\alpha$ ) positive, platinum-resistant epithelial ovarian, fallopian tube, or primary peritoneal cancer, who have received one to three prior systemic treatment regimens. Mirvetuximab soravtansine-gynx is a folate receptor alpha directed antibody and microtubule inhibitor conjugate. Patients are selected for therapy based on an FDA-approved test.

Accelerated approval status listed in the "Indications and Usage" Section (section1) of prescribing information

**ELAHERE** is a folate receptor alpha (FR $\alpha$ )-directed antibody and microtubule inhibitor conjugate indicated for the treatment of adult patients with FR $\alpha$  positive, platinum-resistant epithelial ovarian, fallopian tube, or primary peritoneal cancer, who have received one to three prior systemic treatment regimens. Select patients for therapy based on an FDA-approved test. (1, 2.1)

This indication is approved under accelerated approval based on tumor response rate and durability of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial. (1, 14)

#### FDA.

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-grants-accelerated-approval-mirvetuximab-soravtansine-gynx-fra-positive-platinumresistant\_Accessed April 1\_2023\_Elabere\_Prescribing information\_Immunogen; 2023\_

![](_page_191_Picture_0.jpeg)

![](_page_191_Picture_1.jpeg)

### FDA Draft Guidance on Oncology Accelerated Approvals

- FDA recommendations (not legally enforceable) to sponsors for designing, conducting, and analyzing data for oncology accelerated approval trials
- FDA considers a randomized controlled trial (RCT) the preferred approach over single-arm studies

• Single-arm trials have been commonly used to support accelerated approval

- Lack direct comparisons to available therapy
- Add uncertainty to the assessment of a drug's safety/efficacy
- RCT can address limitations of single-arm trials
- Guidance goal: increase RCTs

![](_page_192_Picture_0.jpeg)

![](_page_192_Picture_1.jpeg)

### FDA Draft Guidance on Oncology Accelerated Approvals

#### FDA suggests 2 clinical trial approaches:

#### □ Single randomized controlled trial

- Supports accelerated approval & verifies clinical benefit (the "one-trial" approach)
- Sample size should be adequately powered to detect clinically meaningful & significant improvement in endpoints for accelerated approval (e.g., ORR), plus verify clinical benefit (e.g., PFS or OS) for full approval

#### □ 2 separate trials

- One for accelerated approval & another confirmatory trial
- FDA **strongly recommends** the confirmatory trial be well underway, if not fully enrolled, by the time of the accelerated approval

Clinical Trial Considerations To Support Accelerated Approval of Oncology Therapeutics; Draft Guidance for Industry; Availability. https://www.fda.gov/media/166431/download. Accessed April 1, 2023.

![](_page_193_Picture_0.jpeg)

![](_page_193_Picture_1.jpeg)

### FDA Draft Guidance on Oncology Accelerated Approvals

- Confirmatory trial may be acceptable to evaluate the drug in the same cancer type but in another line of therapy
- Timely completion of the trial(s) intended to verify clinical benefit is critical
- Evidence *should* be provided to support the individual contribution of components to the claimed effect(s)
- Control arm *should* represent the current appropriate available therapy

Clinical Trial Considerations To Support Accelerated Approval of Oncology Therapeutics; Draft Guidance for Industry; Availability. https://www.fda.gov/media/166431/download. Accessed April 1, 2023.

![](_page_194_Picture_0.jpeg)

![](_page_194_Picture_1.jpeg)

# **Confirmatory Trials**

- Postmarketing requirements agreed to by the company & FDA, including projected date by which confirmatory trial will be completed & projected date by which the final report of these studies will be submitted to FDA
- Full approval is granted based on results of confirmatory trial
- Often conducted in earlier lines of therapy and in different combinations of drugs than original trial
  - Patients may not want to enroll in a trial with a control arm if an effective therapy is already available on the market

#### Hard to identify what is the confirmatory trial for an accelerated approval indication

Clinical Trial Considerations To Support Accelerated Approval of Oncology Therapeutics; Draft Guidance for Industry; Availability. https://www.fda.gov/media/166431/download. Accessed April 1, 2023.

![](_page_195_Picture_0.jpeg)

![](_page_195_Picture_1.jpeg)

# **Top of Mind Questions**

- Is the confirmatory trial underway?
- Are patients fully enrolled?
- When are the results of the confirmatory trial expected?
- What is the primary endpoint of the confirmatory trial?
  - Same surrogate endpoint as the primary study? Is it overall survival?
- What is the design of the confirmatory trial?
  - Inclusion/exclusion criteria may adjust your coverage criteria

![](_page_196_Picture_0.jpeg)

![](_page_196_Picture_1.jpeg)

# **Example: Mirvetuximab soravtansine**

- Accelerated approval (AA) November 14, 2022
- Indication: Folate receptor alpha (FRα) positive, platinum-resistant epithelial ovarian, fallopian tube, or primary peritoneal cancer patients after 1-3 prior systemic treatments

#### SORAYA: single-arm trial supported AA

- Sample size: 104 patients
- Prior bevacizumab required
- ORR 31.7%, median DOR 6.9 months
- Trial fully published January 30, 2023
- Median OS 15 months available March 25, 2023

#### **MIRASOL:** confirmatory trial

- RCT MIRV vs. chemo in similar patient population but no bevacizumab required
- Enrollment: ~ 453 patients
- Underway, results expected H2 2023
- Primary endpoint: PFS

#### FDA.

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-grants-accelerated-approval-mirvetuximab-soravtansine-gynx-fra-positive-platinum-resistant.

![](_page_197_Picture_0.jpeg)

![](_page_197_Picture_1.jpeg)

# **Example: Mirvetuximab soravtansine**

- Accelerated approval (AA) November 14, 2022
- Indication: Folate receptor alpha (FRα) positive, platinum-resistant epithelial ovarian, fallopian tube, or pri Cost ~ \$24,880 - \$39,808/month rior systemic treatments

SORAYA: single-arm trial supported AA

- Sample size: 104 patients
- Prior bevacizumab required
- ORR 31 7% median DOR 6.9 months

**MIRASOL:** confirmatory trial

- RCT MIRV vs. chemo in similar patient population but no bevacizumab required
- Enrollment: ~ 453 natient

- Trial f
- If step therapy was added requiring prior bevacizumab, that may need to be revisited if MIRASOL results are positive

H2 2023

Media

FDA.

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-grants-accelerated-approval-mirvetuximab-soravtansine-gynx-fra-positive-platinum-resistant.

![](_page_198_Picture_0.jpeg)

![](_page_198_Picture_1.jpeg)

### **Need More Info?**

- Find the NCT# and look up the study on clinicaltrials.gov
- Helpful estimated study completion dates
- More detailed inclusion/exclusion criteria

![](_page_198_Picture_6.jpeg)

Clinicaltrials.gov. https://clinicaltrials.gov/ct2/show/NCT04209855. Accessed April 2, 2023

![](_page_199_Picture_0.jpeg)

![](_page_199_Picture_1.jpeg)

### **Status of Accelerated Approvals**

![](_page_199_Figure_3.jpeg)

\* As of April 18 2023. Oncology (Cancer) / Hematologic Malignancies Approval Notifications.

https://www.fda.gov/drugs/resources-information-approved-drugs/oncology-cancer-hematologic-malignancies-approval-notifications. Accessed April 1, 2023

![](_page_200_Picture_0.jpeg)

![](_page_200_Picture_1.jpeg)

# Lack of Confirmatory Trials

- Over 1/3<sup>rd</sup> of oncology accelerated approvals are "ongoing" – without confirmatory results supporting full approval
- From 2009-2022, average 2.8 years (range: 0.05 - 13.56 years) on market without obtaining full approval
- Creates uncertainty around long-term safety & effectiveness of these drugs

Sept 2009 Pralatrexate in peripheral T-cell lymphoma

"Ongoing" oncology accelerated approvals

68

April 2023 Pembrolizumab + enfortumab vedotin in urothelial cancer

Oncology (Cancer) / Hematologic Malignancies Approval Notifications.

https://www.fda.gov/drugs/resources-information-approved-drugs/oncology-cancer-hematologic-malignancies-approval-notifications.Accessed April 1, 2023

![](_page_201_Picture_0.jpeg)

![](_page_201_Picture_1.jpeg)

# **Oncology Accelerated Approvals Past 5 Years**

Traditional Approval Withdrawn Ongoing

![](_page_201_Figure_4.jpeg)

- Only 23% of accelerated approvals from 2018-2022 are now fully approved
- FDA approved the most accelerated approvals in 2020 during the pandemic
- 42% of 2018-2019 accelerated approvals are ongoing, lacking confirmatory trials supporting full approval
- Concerns confirmatory trials are not always conducted & some drugs later prove to be ineffective

\*Based on approval date; Oncology (Cancer) / Hematologic Malignancies Approval Notifications. https://www.fda.gov/drugs/resources-information-approved-drugs/oncology-cancer-hematologic-malignancies-approval-notifications. Accessed April 1, 2023

![](_page_202_Picture_0.jpeg)

![](_page_202_Picture_1.jpeg)

# **Ongoing Therapies Lacking Confirmatory Trials**

### FDA "Project Confirm"

- FDA Oncology Center of Excellence initiative to promote the transparency of outcomes related to accelerated approval in oncology
- Goal: Enhance the balance of access and verification of oncology drug benefit
- FDA provides a searchable database with information on the status of all oncology accelerated approvals, although data is as current as the humans that maintain it!

![](_page_203_Picture_0.jpeg)

![](_page_203_Picture_1.jpeg)

Original

# **Ongoing Therapy Example: Lurbinectedin**

- Accelerated approval June 15, 2020
- Indication: metastatic small cell lung cancer (SCLC) with disease progression on/after platinum-based chemo
- Efficacy (Study B-005; NCT02454972)
  Among the 105 patients, the ORR was 35%, median DOR 5.3 months

Drug Name 🌲	Accelerated Approval (AA) Indication 🛛 🌐	AA Date 🚽	AA Post-Marketing Requirement	Projected Completion <u>1</u>
Zepzelca (lurbinectedin)	<u>Treatment of adult patients with metastatic</u> <u>small cell lung cancer (SCLC) with disease</u> <u>progression on or after prior platinum-</u> <u>based chemotherapy</u> .	6/15/2020	3831-1: Submit the final report and datasets for the OS and PFS analysis as determined by an Independent Review Committee from a clinical trial to confirm the clinical benefit of lurbinectedin in SCLC that may inform product labeling. This could be from the Study titled, "Phase III Randomized Clinical Trial of Lurbinectedin (PM01183)/Doxorubicin Versus Cyclophosphamide, Doxorubicin and Vincristine (CAV) or Topotecan as Treatment in Patients With SCLC Who Failed One Prior Platinumcontaining Line (ATLANTIS)".	2/28/2021

Confirmatory trial, ATLANTIS due 2/28/21 per FDA

FDA. https://www.fda.gov/drugs/resources-information-approved-drugs/ongoing-cancer-accelerated-approvals. Accessed April 1, 2023.

![](_page_204_Picture_0.jpeg)

![](_page_204_Picture_1.jpeg)

Original

# **Ongoing Therapy Example: Lurbinectedin**

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	Drug Name	\$	Accelerated Approval (AA) Indication 🗦	AA Date	v	AA Post-Marketing Requirement	Projected Completion <u>1</u>
	Zepzelca (lurbinectedin)		Treatment of adult patients with metastatic small cell lung cancer (SCLC) with disease progression on or after prior platinum- based chemotherapy.	6/15/2	020	3831-1: Submit the final report and datasets for the OS and PFS analysis as determined by an Independent Review Committee from a clinical trial to confirm the clinical benefit of lurbinectedin in SCLC that may inform	2/28/2021
Cost ~ \$20,085/month					product labeling. This could be from the Study titled, "Phase III Randomized Clinical Trial of Lurbinectedin (PM01183)/Doxorubicin Versus		
						Cyclophosphamide, Doxorubicin and Vincristine (CAV) or Topotecan as Treatment in Patients With SCLC Who Failed One Prior Platinumcontaining Line (ATLANTIS)".	

Confirmatory trial, ATLANTIS due 2/28/21 per FDA

FDA. https://www.fda.gov/drugs/resources-information-approved-drugs/ongoing-cancer-accelerated-approvals. Accessed April 1, 2023.

![](_page_205_Picture_0.jpeg)

![](_page_205_Picture_1.jpeg)

# Lurbinectedin Lacks Confirmation of Benefit

#### ATLANTIS Confirmatory trial:

- Phase III RCT in relapsed SCLC, randomized to lurbinected in + doxorubicin (n=307) vs chemo (topotecan (n=127) or CAV (n=179))
- Lurbinectedin + doxorubicin did not improve overall survival vs control
- mOS 8.6 months L+D vs 7.6 months control (HR, 0.97, p=0.70)

Lurbinectedin was given at a lower dose in combo therapy, remains on market due to perceived unmet need

**Dec 2021** Dec 2, 2020 Sept 13, 2021 Oct 14, 2022 Oct 24, 2022 **June 2025** ATLANTIS OS LAGOON **ATLANTIS** failure Company initiated ATLANTIS Citizens petition to press release numbers LAGOON, another Published withdraw lurbinectedin results confirmatory trial denied by FDA anticipated presented

Endpoints News. https://endpts.com/fda-explains-why-it-wont-pull-jazzs-accelerated-approval-despite-a-failed-confirmatory-trial/. Accessed April 1, 2023

![](_page_206_Picture_0.jpeg)

![](_page_206_Picture_1.jpeg)

# When Confirmatory Trials Fail

![](_page_206_Figure_3.jpeg)

![](_page_207_Picture_0.jpeg)

![](_page_207_Picture_1.jpeg)

## When Confirmatory Trials Fail

![](_page_207_Figure_3.jpeg)

![](_page_208_Picture_0.jpeg)

![](_page_208_Picture_1.jpeg)

# **Therapy Failure or Withdrawal: What's Next?**

#### **Evaluate each subsequent** authorization request carefully

- Reauthorizations
  - May consider continuing auth if no disease progression
- New starts
  - Evaluate if other coverage sources continue to support the therapy, which may require coverage

#### Review NCCN Compendium Language

- Coverage may still be required
  - Lag in NCCN removal
  - Lag in NCCN Category 3 (deems therapy not medically necessary)
  - NCCN may continue to support therapy as Category 1or 2A

![](_page_208_Picture_13.jpeg)

What can WE do? Learn about negative clinical trials or withdrawals □ Educate providers and offer more efficacious alternatives

![](_page_209_Picture_0.jpeg)

![](_page_209_Picture_1.jpeg)

### Withdrawn but Still in NCCN: Pembrolizumab in SCLC

- Accelerated approval June 17, 2019
  - Indication: Metastatic small cell lung cancer (SCLC) with disease progression on/after platinum-based chemo & ≥ 1 other prior line of therapy
- Company voluntarily withdrew use March 30, 2021
  - Confirmatory KEYNOTE-604 trial met one of its dual primary endpoints of PFS but did not reach statistical significance for OS (announced Jan 2020)
- Today: Remains supported NCCN Category 2A for SCLC
  - As subsequent single agent therapy for either relapse following response or stable disease w/ primary treatment (*discouraged* if progression on maintenance atezolizumab or durvalumab), or primary progressive disease

Merck. https://www.merck.com/news/merck-provides-update-on-keytruda-pembrolizumab-indication-in-metastatic-small-cell-lung-cancer-in-the-us/. Accessed April 1, 2023. NCCN Drugs & Biologics Compendium. https://www.nccn.org/professionals/drug\_compendium/content/. Accessed April 1, 2023. FDA https://www.fda.gov/drugs/resources-information-approved-drugs/withdrawn-cancer-accelerated-approvals. Accessed April 1, 2023.

![](_page_210_Picture_0.jpeg)

![](_page_210_Picture_1.jpeg)

### **PARP Inhibitors Withdrawn: Ovarian Cancer Treatment**

3 PARP inhibitors were withdrawn in 2022 for later line <u>treatment</u> of advanced ovarian cancer after data found a 31 - 33% increased risk of death vs chemo

![](_page_210_Figure_4.jpeg)

- Today these agents are used as <u>maintenance</u> therapy in earlier lines, limiting the impact of these withdrawals
- What about the thousands of patients that received these agents for treatment?
- How many millions in healthcare dollars were spent on suboptimal care?

\*Accelerated Approval. Medscape. https://www.medscape.com/viewarticle/981369. Accessed April 1, 2023

![](_page_211_Picture_0.jpeg)

![](_page_211_Picture_1.jpeg)

### **Practical Tips: Learning About Failures/ Withdrawals**

- Browse biotech websites (e.g., FiercePharma.com)
- Browse oncology-specific websites (e.g., OncLive.com)
- Sign up for email alerts (FDA, ASCO Post)
- Read press releases
- Talk with the colleagues you work with, educate each other
- Communicate openly with pharmaceutical colleagues

![](_page_212_Picture_0.jpeg)

![](_page_212_Picture_1.jpeg)

### Accelerated Approvals: Take the Good with the Bad

### **Advantages**

- Faster time to market for lifesaving or life prolonging therapies
- Shorter clinical trials
- Accelerated scientific advances
- Nearly half of accelerated approvals have gone on to full approval

### Limitations

- Questionable value
- Small sample sizes
- Response rates may not predict long-term outcomes
- Multiple agents may obtain similar accelerated approval indication
- Risk of withdrawal
- Risk of financial toxicity for potentially suboptimal therapy

![](_page_213_Picture_0.jpeg)

![](_page_213_Picture_1.jpeg)

### Managed Care Strategies for Accelerated Approvals

![](_page_213_Picture_3.jpeg)

KEEP UP WITH LATEST DATA

Monitor data as it constantly evolves in oncology with positive and negative results

![](_page_213_Picture_6.jpeg)

#### EDUCATE

Communicate latest data with internal clinical teams and educate providers of negative data/withdrawals

![](_page_213_Picture_9.jpeg)

Consider drafting more detailed coverage criteria as the value of the therapy may not be fully understood

CRITERIA

May need to remove indication or adjust criteria based on withdrawal or full approval

![](_page_213_Picture_13.jpeg)

Engage providers to discuss patient-tailored alternatives in lieu of therapy with low value

![](_page_214_Picture_0.jpeg)

![](_page_214_Picture_1.jpeg)

### Managed Care Strategies for Accelerated Approvals

 Consider drafting prior authorization criteria closer to clinical trial inclusion/exclusion criteria

![](_page_214_Picture_4.jpeg)

Consider adding ECOG performance status

![](_page_214_Picture_6.jpeg)

Evaluate WHAT data can be readily collected during PA

Add drugs to criteria if included or excluded in trial

- Accelerated approval indications may not be added to clinical oncology pathways or value-based care provider incentives
- ?Outcomes-based contracting?

![](_page_215_Picture_0.jpeg)

![](_page_215_Picture_1.jpeg)

# Conclusion

- The FDA's accelerated approval process in oncology can help bring drugs to market faster that meet an unmet clinical need
- The accelerated approval pathway is widely used in oncology, many times with limited data available at the time of approval and unknown long-term outcomes
- Managed care pharmacists must diligently access the value of an oncology therapy that has obtained accelerated approval and monitor data releases for confirmatory trial results
## Oncology Accelerated Drug Approvals that Lack Confirmatory Trials

Laura R. Bobolts, PharmD, BCOP SVP, Clinical Strategy and Growth OncoHealth

Thank you for attending the **AMCP** Florida 2<sup>nd</sup> Annual Day of **Education!**