



First Quarter 2020

Financial Results & Corporate Update

May 11, 2020

Paratek Pharmaceuticals, Inc. (Nasdaq: PRTK): A commercial-stage biopharmaceutical company focused on the development and commercialization of novel life-saving therapies for life-threatening diseases or for other public health threats for civilian, government and military use

First Quarter 2020 Earnings Call Agenda

Introduction

Ben Strain, Vice President, Investor Relations & Corporate Communications

Overview and Financial Highlights

Evan Loh, M.D., Chief Executive Officer

First Quarter 2020 Commercial Highlights

Adam Woodrow, President & Chief Commercial Officer

Pipeline and Future Value Drivers

Randy Brenner, Chief Development & Regulatory Officer

Q&A

Also available for Q&A:

Michael F. Bigham, Executive Chairman

Sarah Higgins, Vice President of Finance, Controller and Principal Accounting Officer

Safe Harbor Statement

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This presentation contains forward-looking statements including statements related to our overall strategy, products, prospects, potential and expected results, including statements about the impact of the Covid-19 pandemic on our revenue projections, supply chain and clinical trials, projected awareness, payor coverage, net product revenues, total revenues including assumptions related to our financial guidance, the financial impact of our BARDA contract including BARDA exercising full contract line items for procurement and PMR reimbursement, our anticipated cash runway, our operating expenses, our SEYSARA royalty-backed loan funded on May 1, 2019, the progression of our commercial roll out for NUZYRA, our ability to shape the future treatment paradigm for community-acquired pneumonia and serious skin infections, our plans to evaluate additional indications for NUZYRA, including NTM, and to work toward an oral-only indication in CABP, future governmental stockpiling opportunities, and our potential to further drive long-term value for all of our shareholders. All statements, other than statements of historical facts, included in this presentation are forward-looking statements, and are identified by words such as "advancing," "expect," "look forward," "anticipate," "continue," and other words and terms of similar meaning. These forward-looking statements are based upon our current expectations and involve substantial risks and uncertainties. We may not actually achieve the plans, carry out the intentions or meet the expectations or projections disclosed in our forward-looking statements and you should not place undue reliance on these forward-looking statements. Our actual results and the timing of events could differ materially from those included in such forward-looking statements as a result of these risks and uncertainties. These and other risk factors are discussed under "Risk Factors" and elsewhere in our Annual Report on Form 10-K for the year ended December 31, 2019 and our other filings with the Securities and Exchange Commission. We expressly disclaim any obligation or undertaking to update or revise any forward-looking statements contained herein.

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First Quarter 2020

Overview & Financial Highlights

Evan Loh, M.D.

Chief Executive Officer

Paratek Pharmaceuticals, Inc. (Nasdaq: PRTK): A commercial-stage biopharmaceutical company focused on the development and commercialization of novel life-saving therapies for life-threatening diseases or other public health threats for civilian, government and military use

- Net Revenue = **\$7.9 million** primarily driven by the launch of NUZYRA®
 - NUZYRA net revenue = **\$7.3 million (increase of ~35% versus 4Q 2019)**
 - Driven by increases in demand
- Other revenue = **\$0.6 million**
 - Government contract service revenue from BARDA = \$0.3 million
 - Collaboration and royalty revenue = \$0.3 million
- As of March 31, 2020, Paratek had **\$194.8 million in cash, cash equivalents and marketable securities.**
 - Expected cash runway through the end of 2023 with a pathway to cash flow break even

BARDA BioShield Contract


A Unique Public-Private Partnership with Paratek





NUZYRA™
(omadacycline)



 Biothreat agents may be resistant to antibiotics already in Strategic National Stockpile (SNS)

 Emerging antibiotic resistance may complicate a response to any public health emergency

 Adding to SNS novel antibiotics that overcome resistance enhances national security, serves as additional market



New Drug Application (NDA) Submission of Omadacycline in China

Priority Review Granted by the National Medical Products Administration

 Zai Lab announced **priority review granted** by NMPA in **May 2020**

 Seeking approval for the treatment of CABP and ABSSSI

 Paratek is entitled to receive:

-  **Milestone payment = \$6 million** upon regulatory approval (anticipated in the first half of 2021)
-  **Tiered royalties at low double digit to mid-teen percentages** on net sales of NUZYRA in the greater China region



Condensed Consolidated Statements of Operations (unaudited)

(in thousands, except loss per share data)

Condensed Consolidated Statements of Operations (unaudited) (in thousands, except loss per share data)

	Three Months Ended March 31,	
	2020	2019
Product revenue, net	\$ 7,303	\$ 1,347
Government contract service revenue	337	—
Collaboration and royalty revenue	280	251
Net revenue	\$ 7,920	\$ 1,598
Expenses:		
Cost of product revenue	1,471	206
Research and development	6,389	11,392
Selling, general and administrative	23,638	23,316
Total operating expenses	31,498	34,914
Loss from operations	(23,578)	(33,316)
Other income and expenses:		
Interest income	705	946
Interest expense	(4,826)	(3,226)
Other gains (losses), net	82	(14)
Net loss	\$ (27,617)	\$ (35,610)
Other comprehensive loss		
Unrealized gain on available-for-sale securities, net of tax	397	200
Comprehensive loss	\$ (27,220)	\$ (35,410)
Basic and diluted net loss per common share	\$ (0.66)	\$ (1.10)
Weighted average common stock outstanding		
Basic and diluted	41,641,203	32,334,563

Full Year 2020 Financial Guidance

	Guidance
NUZYRA U.S. Net Product Revenue	~\$66M
Government Contract Service Revenue & Royalty and Collaboration Revenue	\$9M to \$14M
2020 Total Revenue	\$75M to \$80M
R&D and SG&A expense	~\$140M

Balance Sheet Highlights and Cash Runway Guidance

as of March 31, 2020

Key Metrics (unaudited)	03/31/20 balance
Total Cash, Cash Equivalents, and Marketable Securities	\$194.8 million
Long-term Debt Obligation ³	\$240.2 million
Basic Shares Outstanding	42,374,026
Total Potentially Dilutive Securities ¹	19,034,357

**Cash runway projected through 2023
with a pathway to cash flow breakeven²**

1. Includes common stock issuable under the April 2018 convertible debt offering, options, restricted share units, warrants, and for our ESPP.
2. Assumes estimated NUZYRA US product revenue and BARDA reimbursement of activities related to Project BioShield contract. Company will be able to fund all company operating expenses, anticipated capital expenditures, and debt service, including repayment in full of the Hercules Loan and Security Agreement under its existing terms.
3. Includes \$30.6 million of debt secured by and repaid based upon royalties on U.S. SEYSARA sales.



First Quarter 2020

Commercial Highlights

Adam Woodrow

President & Chief Commercial Officer

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NUZYRA Attributes Provide A Modern-Day Solution

Addressing Bacterial Resistance and the Needs of Today's Healthcare Systems

- ❏ NUZYRA is a **once-daily oral and IV broad spectrum antibiotic**
 - ❏ Community Acquired Bacterial Pneumonia (CABP)
 - ❏ Acute Bacterial Skin & Skin Structure Infections (ABSSSI)
- ❏ **High and durable clinical efficacy with favorable safety and tolerability**
 - ❏ **Addresses antibiotic resistance** which today is causing clinical failures with older generic antibiotics
- ❏ **Go Home & Stay Home Dosing Flexibility:**
 - ❏ Once-daily IV to oral NUZYRA has the potential to **minimize hospital stay**
 - ❏ Oral only indication(s) has the potential to **avoid hospitalization all together**



COVID-19 Patients with Secondary Community-Acquired Bacterial Pneumonia (CABP): *Potential Role of NUZYRA®*



Non infected



Asymptomatic



Symptomatic
Mild



Symptomatic
Moderate



Symptomatic
Severe/critical

COVID-19



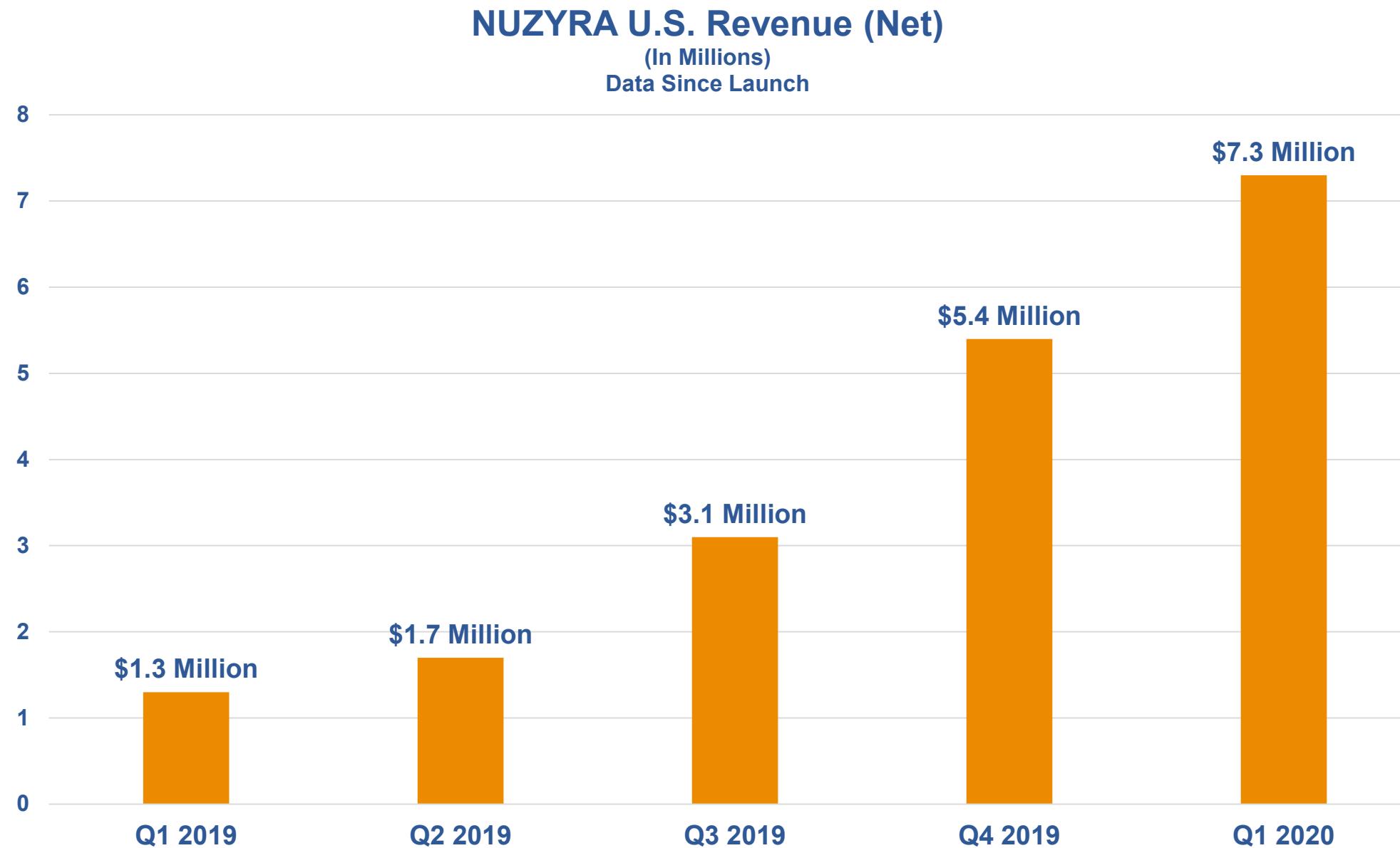
NUZYRA®
(omadacycline)

Secondary CABP

- *FDA-approved for CABP*
- *Once-daily oral and IV broad spectrum antibiotic*
- *Addresses antibiotic resistance*
- *Established safety profile; No prolongation of the QTc interval*
- *No dose adjustments in special populations, including patients with renal failure*
- *No expected metabolic drug-drug interactions*

NUZYRA U.S. Launch Underway

Generated \$7.3 Million in Net Revenue in Q1-2020

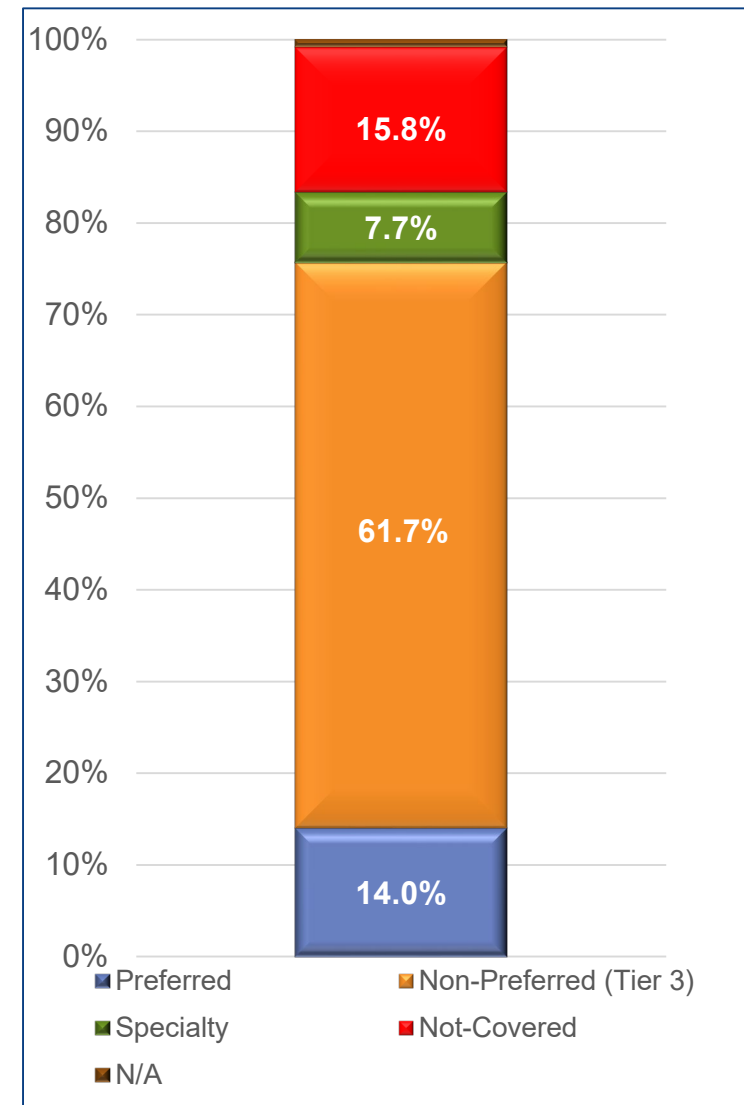


NUZYRA is on track to have one of the most successful antibiotics launches in the last decade

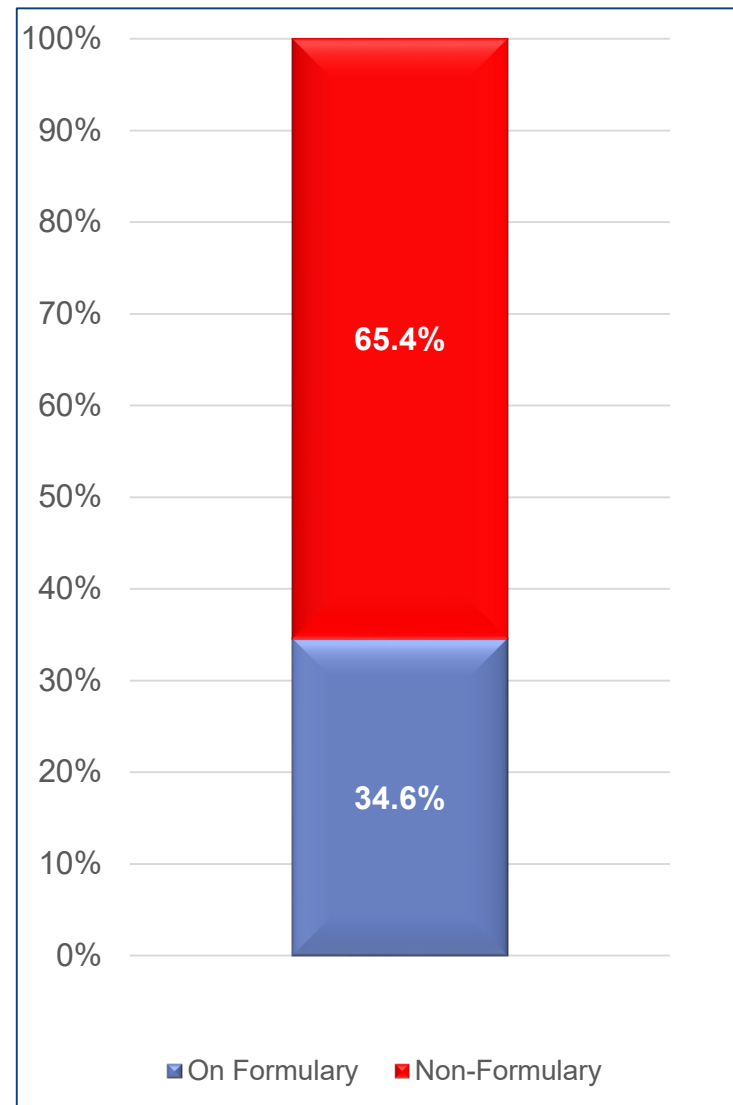
Strong NUZYRA Payer Coverage

As of May 1, 2020

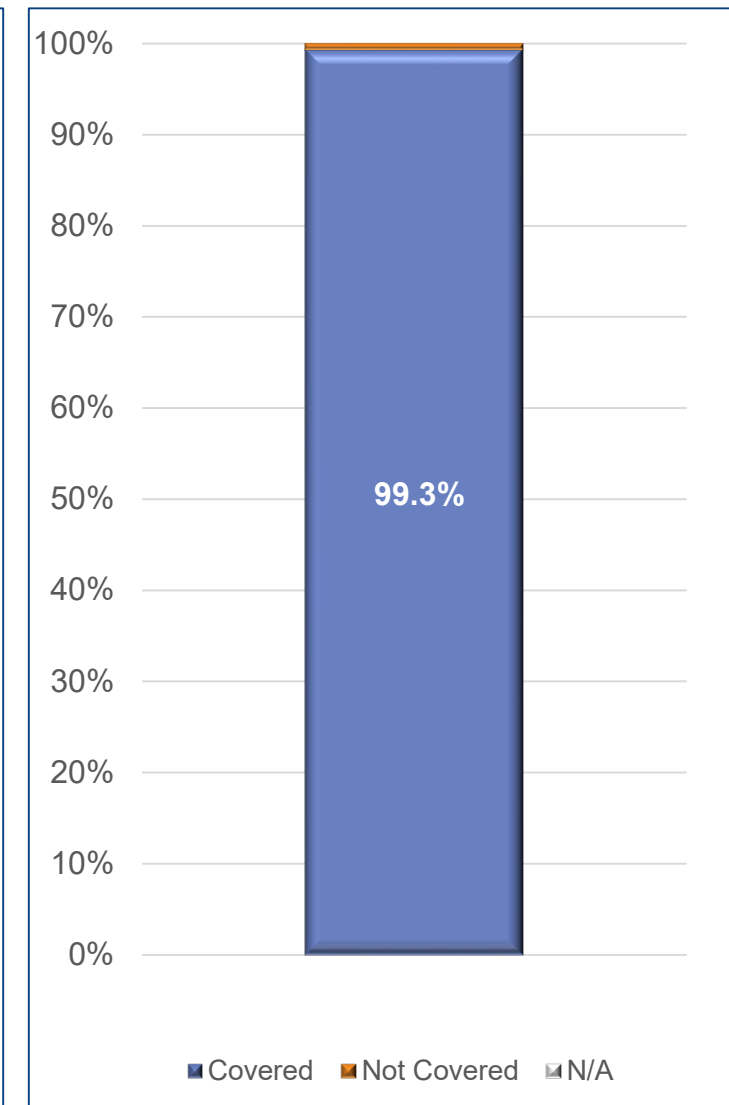
Commercial



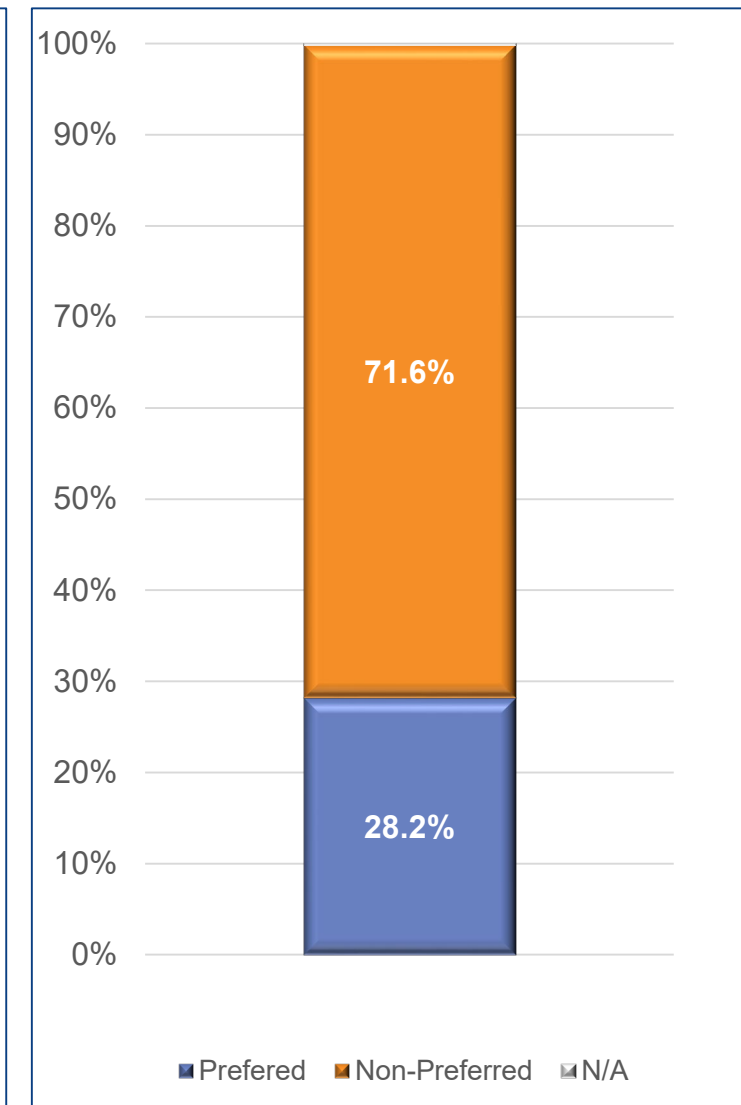
Medicare



Fee For Service (State Medicaid)



Managed Medicaid



Source: DRG Fingertip Formulary Analytics



First Quarter 2020

Pipeline and Future Value Drivers

Randy Brenner

Chief Development & Regulatory Officer

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BARDA Project BioShield Contract Awarded To Paratek

Unique & Transformative Opportunity Enabling Long-term Growth




- Paratek was the **sole recipient**
- First-ever** BioShield award for an antibiotic for the Strategic National Stockpile
- Paratek on track to be the **only antibiotics biopharmaceutical company** with a **fully U.S.-based supply chain** from API through final drug product
- Valued at up to ~\$285 million** over 5 years, with potential for extension up to 10 years
 - **\$77 million** in reimbursement for **all** existing post-approval obligations
 - **\$153 million** procurement purchase of NUZYRA for the Strategic National Stockpile
 - **\$54 million** for anthrax development & U.S. onshoring of manufacturing

Paratek / BARDA Milestones

Contract Valued at ~\$285 million

Events	Timing	Value	Comments
Initiation of Anthrax Treatment Development Program	Dec 2019 	~\$20M	Contract executed
Submit Pre-Emergency Use Authorization Designation for NUZYRA in anthrax	Q1 2020 		Submitted
Initiate Funding for FDA Post Marketing Requirements Including CABP and Pediatric Studies	Q2 2020 	~\$77M	Cost reimbursement initiated
Initiate Funding for Manufacturing Security-Related Requirements and Onshoring	Q2 2020 	~\$20M	Cost reimbursement initiated
Procurement of Initial 2,500 Treatment Courses for BARDA Project BioShield	Q2 2020	~\$38M	Part of base award; On track
Initiate Dosing on Animal Anthrax Studies	2H 2020		
Procurement of Second 2,500 Treatment Courses	1H 2021	~\$38M	
Supplemental Prophylaxis Animal Development	2H 2021	~\$13M	Initiate Prophylaxis Animal Work
Procurement of Third 2,500 Treatment Courses	1H 2022	~\$38M	
Procurement of Fourth 2,500 Treatment Courses	1H 2023	~\$38M	

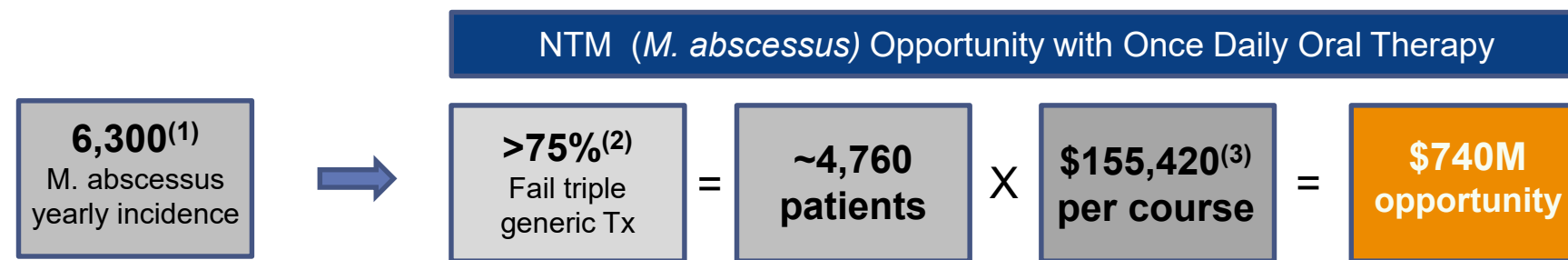
Paratek Pipeline

	Research	Preclinical	Phase 1	Phase 2	Phase 3	Registration	Marketed in the U.S.	Commercial Rights
NUZYRA® (omadacycline) 100mg for injection & 150mg tablets	ABSSSI (IV & Oral) – QIDP							
	ABSSSI (Oral-only) – QIDP							
	CABP (IV & Oral) – QIDP							
	CABP PK Study for Oral-only Labelling							
	Biodefense Pathogens (Anthrax)		FDA Animal Rule Applies					
SEYSARA® (sarecycline)	Inflammatory Acne (Acne Vulgaris)							 (U.S.+)  (ex-U.S.)

*We have entered into a collaboration agreement with Zai Lab (Shanghai) Co., Ltd., for the greater China region
 +We have entered into a license agreement with Almirall for the greater China region

Non-Tuberculous Mycobacteria (*M. abscessus*)

Rare Disease Opportunity with a Potential \$740 Million Addressable Market (2028)



- ❏ No approved therapies
- ❏ Triple antibiotic therapy approaches are most common
- ❏ Most Agents IV only
- ❏ Nearly 80% failure rate with existing treatments
- ❏ Long treatment duration typically 12-24 months

⁽¹⁾ Assumes 2028 NTM incidence of 72k, of which 9% is *M. abscessus* species. Strollo, "The Burden of Pulmonary NTM in the U.S.", AnnalsATS Vol 12;10, 2015. Lee, "Mycobacterium abscessus Complex Infections in Humans", EmergingInfDis, Vol 21;9, 2015.

⁽²⁾ Am J Respir Crit Care Med Vol 175. pp 367–416, 2007 ("no antibiotic regimens based on in vitro susceptibilities has been shown to produce long-term sputum conversion for patients with *M. abscessus* lung disease. The goal of 12 months of negative sputum cultures while on therapy may be reasonable, but there is no medication strategy to reliably achieve this goal")

⁽³⁾ 135 DOT in initial Tx to clear infection. Assuming success, avg 274 DOT (recommendation for 12mo of Tx after 3 negative cultures; assumes 75% compliance); \$380 avg cost/day - blend of IV (\$345/DOT) and Oral (\$395/DOT)

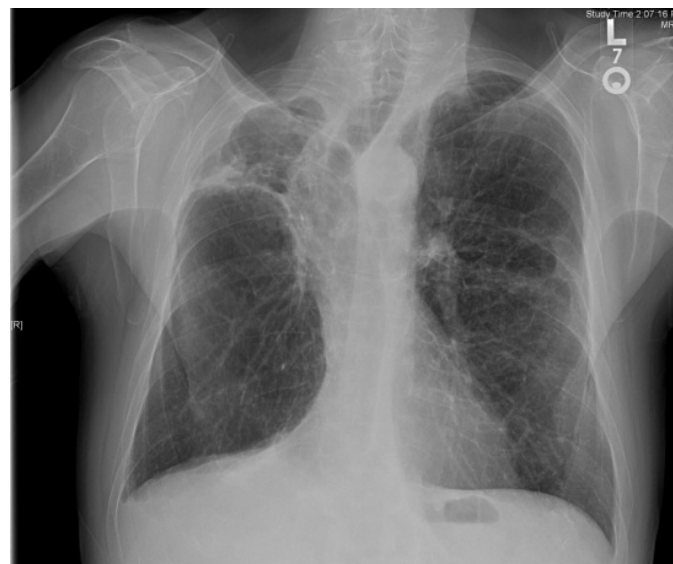
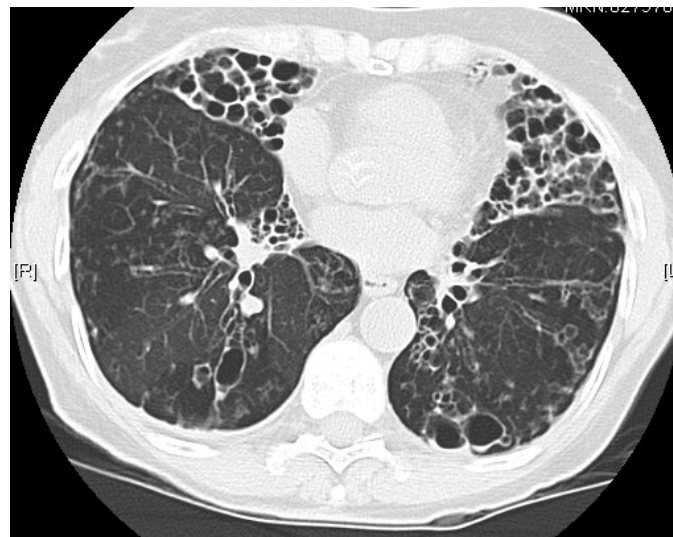
Non-Tuberculous Mycobacteria (*M. abscessus*)

Potential Opportunity with Omadacycline

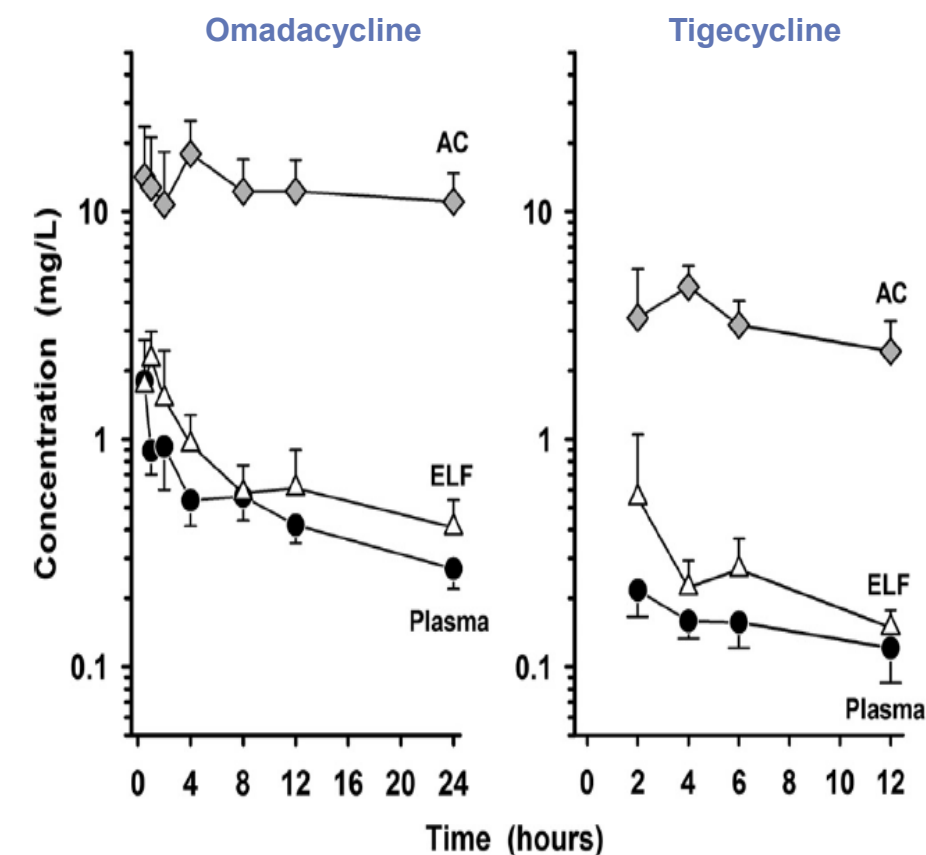
Prevalence of All NTM

- 70,000 – 80,000 NTM cases in the U.S.
- 5-10% year-over-year increase in prevalence
- 5 year all-cause mortality 40%
- Paratek focused on subset of NTM patients (~6,000-8,000) with *Mycobacterium abscessus*
 - Currently, no approved antibiotic therapies

Radiographic Hallmarks



Pulmonary Pharmacokinetics of Omadacycline and Tigecycline



Gotfried MH, et al. Antimicrob Agents Chemother 2017; 61:e01135-17..

Robust Data Generation Underway for NUZYRA

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Welcome to Paratek's Investigator Initiated Research (IIR) Portal

The purpose of Paratek's IIR program is to advance and improve patient care through high-quality research that is initiated, implemented, conducted, and sponsored by external investigators. This portal will enable you to submit your proposal for review, and if approved, to track the progress of your study from the start to end date.

All proposals and protocols are reviewed by a cross-functional Review Committee which includes medical, clinical, safety, biostatistics, and compliance representation. This is a competitive funding program and decisions are based on scientific merit and available funding.

Paratek's 2020 Areas of Interest

Paratek supports research in multiple areas, including but not exclusive to:

- Special Patient Populations
- Pathogens or Resistance Mechanisms of Interest
- Additional Disease States
 - Not Included in Current Clinical Studies
- Real World Evidence
 - Studies Describing the Use, Efficacy and Safety of Omadacycline

30 publications in process to address the use of NUZYRA in special populations

ECCMID



Presented **four NUZYRA clinical and microbiology presentations** in the virtual-congress abstract book

Continued to **highlight the efficacy and safety profile of NUZYRA**, adding to the growing body of evidence of **NUZYRA's utility against life-threatening infections**

Accepted Poster Titles:

- Self-reported health status in ambulatory acute bacterial skin and skin structure infection patients who inject drugs, who received oral therapy with omadacycline or linezolid
- Predicted risk and observed occurrence of *Clostridioides difficile* infection in patients with community-acquired bacterial pneumonia treated with omadacycline or moxifloxacin
- Epidemiology of *Clostridioides difficile* infections among hospitalized community-acquired pneumonia patients who received empiric treatment with ceftriaxone plus a macrolide
- Activity of Omadacycline and Comparator Agents against Bacterial Pathogens from the United States by Infection Type (2019)



Q&A

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Closing Remarks

Evan Loh, M.D.

Chief Executive Officer

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Paratek is Well-Positioned for Future Growth

Focused on Execution + New Value Creation

NUZYRA® 100mg for injection
& 150mg tablets



Near-term Execution

Advance NUZYRA® U.S.
Launch

Capitalize on Project
BioShield Opportunity

Disciplined Operating
Expense Management



Future Value Creation

NUZYRA in Nontuberculous
Mycobacteria or “NTM”

Oral-only dosing regimen for
NUZYRA in CABP

Product / Pipeline Expansion