Recognizing the serious threat of bacterial infections, Paratek is dedicated to providing solutions that enable positive outcomes and lead to better patient stories.
Third-party industry and market information included herein has been obtained from sources believed to be reliable, but the accuracy or completeness of such information is not guaranteed by, has not been independently verified by, and should not be construed as a representation by, Paratek. The information contained in this presentation is accurate only as of the date hereof. “Paratek” and the Paratek logo are trademarks and service marks of Paratek. All other trademarks, service marks, trade names, logos and brand names identified in this presentation are the property of their respective owners.

Certain statements in this presentation, including responses to questions, contain or may contain “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Examples of such statements include, but are not limited to, statements about our strategy, future operations, short and long term product revenue guidance, funding projections, prospects, including plans, objectives of management, availability of data from our clinical studies, potential use of our product candidates, including Omadacycline and Sarecycline, the market acceptance of our product candidates, the strength of, and protection offered by, our intellectual property position, the potential clinical risks and efficacy of, and market opportunities for, our product candidates, the timing and stability of our supply chain, the timing of clinical development of, and regulatory approval for, our product candidates, and the nature and timing of our collaboration agreements with respect to our product candidates. The words “anticipate,” “estimate,” “expect,” “potential,” “will,” “project” and similar terms and phrases are used to identify forward-looking statements. These statements are based on current information and belief and are not guarantees of future performance. Our ability to predict results, financial or otherwise, or the actual effect of future plans or strategies, is inherently uncertain and actual results may differ from those predicted depending on a variety of factors. Our operations involve risks and uncertainties, many of which are outside our control, and any one of which, or a combination of which, could materially affect our results of operations or whether the forward-looking statements ultimately prove to be correct. Except as required by law, we undertake no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise. Among the risks and uncertainties that could cause actual results to differ materially from those indicated by such forward-looking statements include: delays in clinical trials or unexpected results; the risk that data to date and trends may not be predictive of future results; the failure of collaborators to perform obligations under our collaboration agreements; our failure to obtain regulatory approval for our product candidates; if we obtain regulatory approval for our product candidates, the risk that the terms of such approval may limit how we manufacture and market our product candidates; delays in our supply chain, delays in undertaking or completing clinical trials; our products not gaining the anticipated acceptance in the marketplace or acceptance being delayed; our products not receiving reimbursement from healthcare payors; the effects of competition; our inability to protect our intellectual property and proprietary technology through patents and other means; the need for substantial additional funding to complete the development and commercialization of our product candidates; and the other risks described in the “Risk Factors” section and elsewhere in our Annual Report on Form 10-Q for the quarter ending September 30, 2018, our Form 10-K for the year ended December 31, 2017, and our other filings with the SEC.

PARATEK® and the Hexagon Logo are registered trademarks of Paratek Pharmaceuticals, Inc. NUZYRA™ and its design logo are trademarks of Paratek Pharmaceuticals, Inc.
Well-Positioned for Future Growth
Focused on Execution + New Value Creation

Near-term Focus
- Launch of NUZYRA
- Prudent Operating Expense Management
- Non-Dilutive Sources of Capital

New Sources of Value
- Life-cycle Opportunities for NUZYRA
- Bio-Defense
- Product / Pipeline Expansion
**Paratek Investment Highlights**

**NUZYRA™: Potential Blockbuster Antibiotic in Both Hospital and Community Settings**

| Potential Blockbuster Antibiotic with NUZYRA | • 1st FDA approved once-daily IV & oral antibiotic to treat both CABP and ABSSSI in nearly 20 years  
| | • > $9 Billion Potential Addressable Market in U.S. alone* |
| Clear Registration Path: U.S. FDA and EU EMA | • NUZYRA approved in the United States; October 2018  
| | • Filed in the EU in October 2018: Review has been initiated |
| Additional Pipeline Potential | • UTI Ph2 Studies underway: Data Expected in H2 2019  
| | • Biodefense opportunity: Tx & prophylaxis in plague and anthrax  
| | • Life-cycle opportunities: Oral-Only in CABP, Prostatitis, Rickettsial Disease |
| Capital Efficient Commercial Model | • Significant Value Proposition = Hospitalization Minimization  
| | • Hospital Promotion Without Branded Once-Daily Broad-spectrum IV + Oral Competitors |
| Non-dilutive Funding Options | • Omadacycline: Ex-U.S. Commercial Rights (except China)  
| | • Sarecycline: U.S. Royalties (Almirall S.A.**); Ex-U.S. Rights (PRTK) |

(*) Paratek estimates based on 2015 AMR data current treatment failure rates and a Zyvox 2015 pricing analogue  
(**) Almirall, S.A. licensed U.S. development & commercial rights
Experienced Management Team

Michael F. Bigham  
Chairman & CEO

Evan Loh, MD  
President, COO & CMO  
Led Tygacil Development

Doug Pagán  
Chief Financial Officer

Adam Woodrow  
Chief Commercial Officer  
Led Tygacil Commercialization

William Haskel  
General Counsel & Corporate Secretary

PARATEK
### Paratek Pipeline

**Compelling Life-cycle Opportunities**

<table>
<thead>
<tr>
<th>SEYSARA™ (sarecycline)</th>
<th>Research</th>
<th>Preclinical</th>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
<th>Pre-Registration</th>
<th>NDA Filing</th>
<th>NDA Approved</th>
<th>Commercial Rights</th>
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<tbody>
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<td></td>
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<td>ABSSSI (IV &amp; Oral) – QIDP + SPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>(Global*)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ABSSSI (Oral only) – QIDP</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>PARATEK®</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CABP (IV &amp; Oral) – QIDP + SPA</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>uUTI (IV &amp; Oral) – QIDP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(U.S.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Pyelonephritis* (IV &amp; Oral) – QIDP</td>
<td></td>
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<td>Almirall (ex-U.S.)</td>
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<tr>
<td></td>
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<td></td>
<td>Biodefense Pathogens</td>
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<td></td>
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<td></td>
<td><strong>FDA Animal Rule Applies</strong></td>
<td></td>
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</tr>
</tbody>
</table>

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

*Acute pyelonephritis is a subset of cUTI; Acute pyelonephritis is a common subset of complicated UTI's where the kidneys become infected
## Strong Track Record Delivering on Milestones

<table>
<thead>
<tr>
<th>Omadacycline Events</th>
<th>Timing</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSSSI Phase 3 data: IV and oral</td>
<td>Q2 2016</td>
<td>Positive Phase 3 data</td>
</tr>
<tr>
<td>UTI Phase 1b data: PK/PD</td>
<td>Q4 2016</td>
<td>Proof-of-principle</td>
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<tr>
<td>CABP Phase 3 data: IV and oral</td>
<td>Q2 2017</td>
<td>Positive Phase 3 data</td>
</tr>
<tr>
<td>ABSSSI Phase 3 data: Oral-only</td>
<td>Q3 2017</td>
<td>Positive Phase 3 data</td>
</tr>
<tr>
<td>UTI Phase 2 initiation</td>
<td>Q4 2017</td>
<td>Enrolling</td>
</tr>
<tr>
<td>NDA approval</td>
<td>Oct 2018</td>
<td>Approved</td>
</tr>
<tr>
<td><strong>Projected U.S. Launch</strong></td>
<td>Feb 2019</td>
<td></td>
</tr>
<tr>
<td><strong>Projected EMA Approval</strong></td>
<td>H2 2019</td>
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</table>

<table>
<thead>
<tr>
<th>Sarecycline Events¹</th>
<th>Timing</th>
<th>Results</th>
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</thead>
<tbody>
<tr>
<td>Phase 3 efficacy studies</td>
<td>Q1 2017</td>
<td>Positive Phase 3 data</td>
</tr>
<tr>
<td>NDA Approval</td>
<td>Oct 2018</td>
<td>Approved</td>
</tr>
<tr>
<td><strong>Projected U.S. Launch</strong></td>
<td>Jan 2019</td>
<td></td>
</tr>
</tbody>
</table>

¹. Almirall, LLC licensed U.S. development & commercial rights
NUZYRA Commercial Opportunity

*Potential Blockbuster Antibiotic in Both Hospital and Community Settings*
NUZYRA: A Modernized Tetracycline
Restoring Tetracycline Efficacy with Convenience Attributes

7-Position Modification:
Overcomes Efflux Pump

9-Position Modification:
Overcomes Ribosomal Protection

• $T_{1/2} = 16$ Hours
• Clinical and in-vitro activity against select: Gram-positives, Gram-negatives, Atypicals, Drug-resistant strains
• Not metabolized
• No P450 Interactions
• Biliary and renal excretion
NUZYRA: A Modernized Tetracycline
Clinically Meaningful Attributes Drive Trial to Adoption

- Once-daily IV & Oral
- High & durable clinical efficacy
- No dosage modifications or monitoring in hepatic or renal impairment
- No QTc prolongation
- Low potential for DDIs
- No cases of *C. diff* reported in completed clinical program

HCP confidence in treating patients
- Efficacy
- Safety
- Tolerability

Efficacy from hospital to home
- Helps minimize hospitalization
Significant Unmet Need in CABP

Important Demography:

- Together with influenza, CABP is currently the eighth leading cause of death in the U.S.\(^2\)
- All cause 30-day mortality in hospitalized patients exceeds 10\%\(^3-5\)

- Hospitalization Rates in CABP are increased in older populations and in populations with certain co-morbid conditions, including COPD, CHF, and diabetes\(^6\)

**CABP Pathogens\(^1\)**

- *S. pneumoniae*
- *S. aureus*
- *Enterobacteriaceae*
- *H. influenzae*
- *Mycoplasma pneumonia*
- *Legionella pneumophila*
- *Other*

**NUZYRA Opportunities Beyond Current CABP Treatment Options:**

*Addressing Limited Formulations with Safety Concerns*

IDSA/ATS CABP Guideline:¹

- **Inpatient Rx Non-ICU**
  - Beta-lactam + Macrolide
  - OR
  - Respiratory Fluoroquinolone

**NUZYRA as First-Line Therapy:**

Monotherapy, IV + Oral, when β-lactam/Macrolide or Quinolones are not options

---

Significant Unmet Need in Skin Infections

Important Demography:

- Incidence of skin infections requiring hospitalization has substantially increased since the 2000’s¹,³
- ~ 870,000 admissions, 6.3M office visits, and 3.4M emergency department visits annually⁴
- Underlying co-morbidities including diabetes and vascular disease can complicate management and antibiotic selection⁵

Common Skin Pathogens²

- MRSA
- MSSA
- Beta-hemolytic Streptococci
- Other Gram positive
- Other Streptococci
- Gram negative
- Anaerobe

References:
NUZYRA Opportunities Beyond Today’s Skin Treatment Options: Addressing Limited Formulations with Safety Concerns

IDSA SSTI Guideline:¹

Inpatient Rx

Vancomycin
+/- Pip/Tazo

OR

Zyvox
+/- Pip/Tazo

NUZYRA as First-Line Therapy:
Monotherapy, IV + Oral, when Vancomycin/Zyvox +/- Pip/Tazo are not options

SSTI: Skin and Soft Tissue Infection, pip/tazo: piperacillin/tazobactam
NUZYRA Attributes Provide A Modern-Day Solution
Unmet Need Confirmed Through Physician Research

There are Unmet Needs that NUZYRA Will Address

- Lower C.diff Potential
- Lack of Different Class Options
- Reduce Nursing Time

New Therapies to Overcome Drug Resistance
Alternative to Quinolones
Reduce Hospital Length of Stay

More Oral Options
Equivalent IV & Oral
Established Efficacy in a Monotherapy

Reduced Usage of Multi-Drug Combinations
Greater Safety
Known Safety Profile

Confidence to Discharge Patient
Modernized Tetracycline
Once Daily Dosing

Physicians Recognize the Positive Attributes of NUZYRA

Source: Paratek Sponsored Market Research
Success Begins in the Hospital with Specialists
“Go-Home” Strategy to Minimize Hospital Stay

Launch and Beyond
- IDs
- ER HCPs
- Hospitalists
- Pulmonologists
- PharmD IDs
- Allied HCPs

Year 2 and Beyond
- Internal Medicine
- Primary Care Provider
- NPs, PAs
- Urgent Care
Paving The Path For a Successful Launch
Market Access Followed by Commercial Execution for Demand Generation

2018

Oct ‘18 – Jan ‘19
Execution by Select Customer-Facing Team
✓ Contract negotiations
✓ Pre-orders
✓ Qualify key accounts
✓ Appointments

2019

February ‘19 - Forward
Execution by Sales Force & Market Access Customer-Facing Teams
✓ Continue institutional access
✓ Demand generation

2020
Focused Launch Targeting Early Adopters
Expansion to ~80 Representatives by Year End 2019

- Launch in **February 2019** with **40 Sales Specialists**

- **Focusing on ‘Early Adopting’** HCPs in ‘high value’ institutions (~400), will drive institutional access

- **By end of 2019**, plan to have a total of **~80 Sales Specialists** targeting 800 institutions

- **Inside Sales Team will supplement** efforts of Sales Specialists and broaden outreach

**Physician Segments**

- **Early Adopter**
  - Focused on broad spectrum and efficacy
  - Convenient features with IV to oral transition
  - Wait for Early Adopters to trial and use
  - Guideline and protocol driven

- **Late Adopter**
Field Force Has Two Simultaneous Objectives

Institutional Access + Demand Generation

**Institutional Access** + **Demand Generation** = **Adoption**

**Formulary/Protocols Specialty Access & Buying**

- Influencers:
  - IDs
  - PharmD IDs
  - Pharmacy Directors
  - Microbiologists

**Trial & Usage**

- Prescribers:
  - IDs
  - ER
  - Hospitalists
  - Pulmonologists

NUZYRA™
(omadacycline)
NUZYRA: As First-line Therapy
Targeted Patient Profiles

CABP
- Alternative to fluoroquinolone + β-lactam allergic
- Prior C. difficile infection

ABSSSI
- Suspected polymicrobial infection + β-lactam / sulfa allergic
- Renal insufficiency + SSRI
Ensure Seamless Transition from Hospital to Home

Continuity of Care Providing Access to Oral NUZYRA

**Continuity of Care**
- Prevent gap in care
- Sample / Bridge Program (as needed)

**Reimbursement Support Services**

**Affordability Program**

**Distribution Network**
- IV Formulation
  - National & Regional Distributors

- Oral Formulation
  - National & Regional Pharmacies
  - Program allows for oral formulation pick-up at retail locations or home delivery

**HUB Services**
- Enables effective discharge process
IV & Oral NUZYRA Packaging
Easy-to-Use Packs Designed for Patient Convenience
Early Indicators to Track Performance

**Covered Lives**
- 3 months Post-Launch: 33% of covered lives under contract
- 12 months Post-Launch: 66% of covered lives under contract

**Institutional Access**
- 12 months Post-Launch: 70% of 800 targeted institutions
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 2017</td>
<td>NDA Submitted</td>
</tr>
<tr>
<td>Jan 2018</td>
<td>NDA Accepted</td>
</tr>
<tr>
<td>Feb 2018</td>
<td>Ad Comm Completed</td>
</tr>
<tr>
<td>Mar 2018</td>
<td>KPI Dashboard</td>
</tr>
<tr>
<td>Apr 2018</td>
<td>Sales Management &amp; ISR Hired</td>
</tr>
<tr>
<td>May 2018</td>
<td>Sales Teams Hired and Trained</td>
</tr>
<tr>
<td>Jun 2018</td>
<td>Trademark Review Complete</td>
</tr>
<tr>
<td>Jul 2018</td>
<td>Product Supply</td>
</tr>
<tr>
<td>Aug 2018</td>
<td>Payer Reimbursement and Trade Discussions</td>
</tr>
<tr>
<td>Sep 2018</td>
<td>Finalize Pricing</td>
</tr>
<tr>
<td>Oct 2018</td>
<td>Budget Impact Model and Health Economic Analysis and Publications</td>
</tr>
<tr>
<td>Nov 2018</td>
<td>Scientific Exchange</td>
</tr>
<tr>
<td>Dec 2018</td>
<td>Publications/News Flow Continues</td>
</tr>
<tr>
<td>Jan 2019</td>
<td>Launch NUZYRA (omadacyclin)</td>
</tr>
<tr>
<td>Feb 2019</td>
<td>Commercial Readiness:</td>
</tr>
<tr>
<td></td>
<td>- Commercial Team Hired</td>
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<tr>
<td></td>
<td>- Payer Mktg Team Hired</td>
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<tr>
<td></td>
<td>- Advisory Boards</td>
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<tr>
<td></td>
<td>- Market Research</td>
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<tr>
<td></td>
<td>- Disease State Education</td>
</tr>
<tr>
<td></td>
<td>- Initial Payer Research</td>
</tr>
<tr>
<td>Mar 2019</td>
<td>Campaign Development</td>
</tr>
</tbody>
</table>

Commercial Readiness:
- Commercial Team Hired
- Payer Mktg Team Hired
- Advisory Boards
- Market Research
- Disease State Education
- Initial Payer Research
- Campaign Development
NUZYRA: Well Positioned for Blockbuster Potential

<table>
<thead>
<tr>
<th>Antibiotic</th>
<th>Broad Spectrum</th>
<th>Big 3&lt;sup&gt;(1)&lt;/sup&gt; Indications</th>
<th>Safety</th>
<th>Oral Frequency</th>
<th>2010 Sales&lt;sup&gt;(3,4)&lt;/sup&gt;</th>
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<tbody>
<tr>
<td>Levofloxacin</td>
<td>✔</td>
<td>3</td>
<td>✗</td>
<td>Once Daily</td>
<td>$3.4B</td>
</tr>
<tr>
<td>Co-Amoxy clav</td>
<td>✔</td>
<td>3</td>
<td>✔</td>
<td>Twice Daily</td>
<td>$2.8B</td>
</tr>
<tr>
<td>Azithromycin&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>✔</td>
<td>2</td>
<td>✔</td>
<td>Once Daily</td>
<td>$1.8B</td>
</tr>
<tr>
<td>Ciprofloxacin</td>
<td>✔</td>
<td>3</td>
<td>✗</td>
<td>Twice Daily</td>
<td>$1.4B</td>
</tr>
<tr>
<td>Clarithromycin&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>✔</td>
<td>2</td>
<td>✔</td>
<td>Twice Daily</td>
<td>$1.4B</td>
</tr>
<tr>
<td>NUZYRA&lt;sup&gt;(5)&lt;/sup&gt;</td>
<td>✔</td>
<td>3</td>
<td>✔</td>
<td>Once Daily</td>
<td>N/A</td>
</tr>
</tbody>
</table>

>65% of Revenue was Generated by the Oral Formulations

<sup>(1) Skin, Respiratory, UTI</sup>
<sup>(2) Both Azithromycin and Clarithromycin did not have UTI claim</sup>
<sup>(3) IMS global sales data in 2010</sup>
<sup>(4) Major patents had expired for all products by 2010 except Levofloxacin where 2010 was peak year sales</sup>
<sup>(5) Anticipated based on current development plan</sup>
Potential $3.9 Billion Addressable U.S. Hospital Market by 2028

**ABSSSI Opportunity:** 1st line treatment (Tx) failure, resistance suspected

- **3,300K** Hospitalized ABSSSI
- ~12%\(^{(1)}\) Fail broad sp + MRSA cov
- \(~400k\) patients
- $3,000\(^{(4)}\)
- \(~1.2B\) opportunity

**CABP Opportunity:** 1st line Tx failure, resistance suspected

- **3,400K** Hospitalized CABP
- ~14%\(^{(2)}\) Fail FQ or ceph+macrolide
- \(~490k\) patients
- $3,000\(^{(4)}\)
- \(~1.4B\) opportunity

**UTI Opportunity:** 1st line Tx failure (or repeated Tx), ESBL suspected

- **5,400K** Hospitalized UTI
- ~7%\(^{(3)}\) Fail fluoroquinolone
- \(~405k\) patients
- $3,150\(^{(5)}\)
- \(~1.3B\) opportunity

---

\(^{(1)}\) AMR data (2015): Of patients never receiving confirmed pathogen and getting potential MRSA coverage, 30%+ switch therapies (i.e., to another empiric therapy)

\(^{(2)}\) Primary market research (est 18% of hospitalized CABP patients & 16.5% of community CABP patients are “high-risk” and suspected/confirmed to have a resistant pathogen)

\(^{(3)}\) DRG Current Treatment: Gram Negative Infections (ID’s est ~20% failure rate for fluoroquinolones)

\(^{(4)}\) Cost per course based on health outcome analysis, 10 day course of therapy and cost of branded Zyvox therapy as an analogue

\(^{(5)}\) Cost per course based on mid point for levofloxacin course in UTI, a 450mg OMC daily dose, and 50% price premium to branded oral Zyvox as an analogue

\(^{(6)}\) Paratek estimates based on 2015 AMR data current treatment failure rates and a Zyvox 2015 pricing analogue
Potential $5.4 Billion Addressable U.S. Community Market by 2028

ABSSSI Opportunity: Initial treatment (Tx) failure, resistance suspected

14,400K(1)
Community ABSSSI

~5%(1)
Fail broad sp + MRSA cov

~735k cases
X
$2,100(4)
= $1.5B opportunity

CABP Opportunity: Fluoroquinolone failure, resistance suspected

9,370K(1)
Community CABP

~6%(2)
Fail fluoroquinolone

~510k cases
X
$2,100(4)
= $1.1B opportunity

UTI Opportunity: Initial Tx failure (or repeated Tx), ESBL suspected

33,000K(1)
Community UTI

~3%(3)
Fail fluoroquinolone

~890k cases
X
$3,150(5)
= $2.8B opportunity

---

(1) 20% est failures (based on hospital patterns) of first line MRSA treatment
(2) Primary market research (est 18% of hospitalized CABP patients & 16.5% of community CABP patients are “high-risk” and suspected/confirmed to have a resistant pathogen)
(3) Primary market research (est 1-2% of community patients sent to ED/hospital due to resistant infection not treatable with current oral AB; estimated to grow to 2.7% by 2028
(4) Cost per course based on health outcome analysis, 7 day course of therapy and cost of branded Zyvox therapy as an analogue
(5) Cost per course based on mid point for levofloxacin course in UTI, a 450mg OMC daily dose, and 50% price premium to branded oral Zyvox as an analogue
(6) Paratek estimates based on 2015 AMR data current treatment failure rates and a Zyvox 2015 pricing analogue
NUYZRA Product Guidance and Cash Position
History Can Repeat Itself…
Today: Slower starts…But with the Right Attributes, a Strong Finish

Recent AB Launches: antibiotics launched since 2010 that have at least 36 months of data - Avycaz, Dalvance, Orbactiv, Sivextro, Teflaro, & Zerbaxa (does not include Dificid or new formulations/line extensions)

*MAT = 12-month rolling total
# Paratek: 2019 & 2024 NUZYRA Net Product Revenue Guidance

<table>
<thead>
<tr>
<th></th>
<th>2019 Guidance</th>
<th>Assumptions</th>
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| **NUZYRA Net Product Revenues** | $10 to $13 Million | • Excludes anticipated revenues from the SEYSARA U.S. royalty stream and potential Department of Defense grant revenues  
• Assumes a U.S. NUZYRA WAC price of $345 per vial for IV and WAC price of $197.50 per tablet for oral formulation, a February 2019 U.S. launch (11 months), no ex-US omadacycline and sarecycline revenues, and a modest NUZYRA uptake as Company works through anticipated antibiotic launch dynamics |

<table>
<thead>
<tr>
<th></th>
<th>2024 Guidance</th>
<th>Assumptions</th>
</tr>
</thead>
</table>
| **NUZYRA Net Product Revenues** | Approximately $500 Million | • Excludes anticipated revenues from the SEYSARA U.S. royalty stream and potential Department of Defense grant revenues  
• Assumes a hospital launch only, no oral only CABP label, no additional indications including UTI, no ex-US omadacycline and sarecycline revenues, and no revenues from Department of Defense |
## Strong Balance Sheet

### Key Metrics (unaudited)

<table>
<thead>
<tr>
<th>Metric</th>
<th>12/31/18 balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cash, Cash Equivalents, and Marketable Securities</td>
<td>$293.2 million</td>
</tr>
<tr>
<td>Long-term Debt Obligation</td>
<td>$229.0 million</td>
</tr>
<tr>
<td>Basic Shares Outstanding</td>
<td>32,284,602</td>
</tr>
<tr>
<td>Total Potentially Dilutive Securities*</td>
<td>16,709,048</td>
</tr>
</tbody>
</table>

* Includes common stock issuable under the April 2018 convertible debt offering, options, restricted share units, warrants, and shares available for purchase under our ESPP

**Funding Projected through Q1 2021**
NUZYRA Efficacy and Safety in ABSSSI and CABP

Positive Benefit / Risk Profile
Omadacycline OASIS-1 Study Results
Achieved Primary Efficacy Endpoints for Both FDA and EMA

Omadacycline
Linezolid

Delta (95% CI)
-0.7 (-6.3, 4.9)
+2.5 (-3.2, 8.1)
+2.8 (-0.9, 7.1)

Early Clinical Response
mITT PTE - Clinical Success
CE-PTE - Clinical Success

Clinical Success, %
### Clinical Success at PTE by Baseline Pathogen (OASIS-1)

**Highly Effective Across Key Gram (+) Skin Pathogens**

<table>
<thead>
<tr>
<th>Baseline Pathogen</th>
<th>Omadacycline (N=228)</th>
<th>Linezolid (N=227)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N1</td>
<td>Favorable Response (%)</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>156</td>
<td>130 (83.3)</td>
</tr>
<tr>
<td>MRSA</td>
<td>69</td>
<td>57 (82.6)</td>
</tr>
<tr>
<td>MSSA</td>
<td>88</td>
<td>74 (84.1)</td>
</tr>
<tr>
<td><em>Streptococcus anginosus</em> group</td>
<td>47</td>
<td>36 (76.6)</td>
</tr>
<tr>
<td><em>Streptococcus pyogenes</em></td>
<td>11</td>
<td>8 (72.7)</td>
</tr>
<tr>
<td>Enterococcus faecalis (VSE)</td>
<td>10</td>
<td>9 (90.0)</td>
</tr>
</tbody>
</table>

*10 or More Isolates for Omadacycline

*S. anginosus* group consists of: *S. anginosus*, *S. intermedius*, and *S. constellatus*.

MRSA, methicillin-resistant *Staphylococcus aureus*; MSSA, methicillin-susceptible *Staphylococcus aureus*; VSE, vancomycin-susceptible enterococci.
Omadacycline OPTIC Study Results
Achieved Primary Efficacy Endpoints for Both FDA and EMA

- **Early Clinical Response - ITT**
  - Omadacycline: 81.1%
  - Moxifloxacin: 82.7%
  - Delta (95% CI): -1.6 (-7.1, 3.8)

- **Clinical Success at PTE - ITT**
  - Omadacycline: 88.4%
  - Moxifloxacin: 85.2%
  - Delta (97.5% CI): +3.3 (-2.7, 9.3)

- **Clinical Success at PTE - CE-PTE**
  - Omadacycline: 92.5%
  - Moxifloxacin: 90.5%
  - Delta (97.5% CI): +2.0 (-3.2, 7.4)

**FDA Primary Endpoint**

**EMA Co - Primary Endpoints**

Omadacycline
Moxifloxacin
### Clinical Success at PTE by Baseline Pathogen* (OPTIC)

**Highly Effective Across Key Gram (+), Gram (–) & Atypical CABP Pathogens**

<table>
<thead>
<tr>
<th>Baseline Pathogen</th>
<th>Omadacycline (N=204)</th>
<th>Moxifloxacin (N=182)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Atypical Pathogens</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mycoplasma pneumoniae</td>
<td>70</td>
<td>57</td>
</tr>
<tr>
<td>Chlamydophila pneumoniae</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Legionella pneumophila</td>
<td>37</td>
<td>37</td>
</tr>
<tr>
<td><strong>Gram-Negative Bacteria (aerobes)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Haemophilus influenzae</em></td>
<td>32</td>
<td>16</td>
</tr>
<tr>
<td><em>Haemophilus parainfluenzae</em></td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td><em>Klebsiella pneumoniae</em></td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td><strong>Gram-Positive Bacteria (aerobes)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Streptococcus pneumoniae</em></td>
<td>43</td>
<td>34</td>
</tr>
<tr>
<td>PSSP</td>
<td>26</td>
<td>22</td>
</tr>
<tr>
<td>Macrolide Resistant</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>

*10 or More Isolates for Omadacycline
Omadacycline OASIS-2 Study Results
Achieved Primary Efficacy Endpoints for Both FDA and EMA

Omadacycline
Linezolid

**FDA Primary Endpoint**
Delta (95% CI)
+5.0 (-0.2, 10.3)

**EMA Co-Primary Endpoints**
Delta (95% CI)
+3.3 (-2.2, 9.0)

Delta (95% CI)
+2.3 (-0.5, 5.8)
## Clinical Success at PTE Baseline Pathogen (OASIS-2)
### Highly Effective Across Key Gram (+) Skin Pathogens

<table>
<thead>
<tr>
<th>Baseline Pathogen</th>
<th>Omadacycline (n=276)</th>
<th>Linezolid (n=287)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Clinical Success n (%)</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>220</td>
<td>182 (82.7)</td>
</tr>
<tr>
<td>MRSA</td>
<td>104</td>
<td>89 (85.6)</td>
</tr>
<tr>
<td>MSSA</td>
<td>120</td>
<td>97 (80.8)</td>
</tr>
<tr>
<td><em>Staphylococcus lugdunensis</em></td>
<td>5</td>
<td>4 (80.0)</td>
</tr>
<tr>
<td><em>Streptococcus pyogenes</em></td>
<td>29</td>
<td>20 (69.0)</td>
</tr>
<tr>
<td><em>Streptococcus anginosus group</em></td>
<td>57</td>
<td>49 (86.0)</td>
</tr>
<tr>
<td><em>Streptococcus anginosus</em></td>
<td>27</td>
<td>24 (88.9)</td>
</tr>
<tr>
<td><em>Streptococcus intermedius</em></td>
<td>23</td>
<td>18 (78.3)</td>
</tr>
<tr>
<td><em>Streptococcus constellatus</em></td>
<td>9</td>
<td>8 (88.9)</td>
</tr>
<tr>
<td><em>Enterococcus faecalis</em></td>
<td>8</td>
<td>8 (100.0)</td>
</tr>
<tr>
<td>VRE</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VSE</td>
<td>7</td>
<td>7 (100.0)</td>
</tr>
</tbody>
</table>
### Most Frequent TEAEs in the OASIS-1, OASIS-2 and OPTIC Studies

**Omadacycline Safety and Tolerability Profile Established**

<table>
<thead>
<tr>
<th></th>
<th>Omadacycline (N = 1073)</th>
<th>Linezolid (N = 689)</th>
<th>Moxifloxacin (N = 388)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nausea¹</td>
<td>14.9</td>
<td>8.7</td>
<td>5.4</td>
</tr>
<tr>
<td>Vomiting¹</td>
<td>8.3</td>
<td>3.9</td>
<td>1.5</td>
</tr>
<tr>
<td>Diarrhea²</td>
<td>2.4</td>
<td>2.9</td>
<td>8.0</td>
</tr>
<tr>
<td>Transaminase Elevations Increased</td>
<td>4.3</td>
<td>4.4</td>
<td>5.2</td>
</tr>
<tr>
<td>Headache</td>
<td>2.9</td>
<td>3.0</td>
<td>1.3</td>
</tr>
</tbody>
</table>

### Events of Nausea and Vomiting in Phase 3 CABP and ABSSSI Clinical Trials

<table>
<thead>
<tr>
<th></th>
<th>CABP IV/Oral</th>
<th>ABSSSI IV/Oral</th>
<th>ABSSSI Oral-Only</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IV</td>
<td>Oral</td>
<td>IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nausea¹</td>
<td>0.5</td>
<td>2.4</td>
<td>4.3</td>
</tr>
<tr>
<td>Vomiting</td>
<td>1.8</td>
<td>1.0</td>
<td>1.2</td>
</tr>
</tbody>
</table>

¹ Nearly all events of nausea and vomiting were mild or moderate in severity, resolved, and were not treatment limiting. Only 4 patients (0.4%) discontinued OMC treatment for nausea or vomiting.

² Diarrhea occurred in 2.4% of OMC patients and no cases of *C. difficile* infection were reported in OMC patients.
Completed Omadacycline Phase 1b UTI Study Design
*Imminent Need to Replace Quinolones in Cystitis*

**Group 1 (n=10)**
- Dose 200 mg IV Day 1
- Dose 300 Oral q24h Days 2-5

**Group 2 (n=10)**
- Dose 300 mg Oral q12h Day 1
- Dose 300 mg Oral q24h Days 2-5

**Group 3 (n=11)**
- Dose 450 mg Oral q12h Day 1
- Dose 450 mg Oral q24h Days 2-5

**Screening**
(≤ 48 hours prior to randomization)

**End of Treatment** (Day 6)

**Post Treatment Evaluation**

5 – 9 Days Post Last Dose
30 – 37 Days Post First Dose

**Follow-Up**

Serial Blood and Urine Samples Collected for Pharmacokinetic (PK)
Oral Bioavailability Results in High Omadacycline Concentrations in Urine Supports Development for a UTI Indication
Phase 2 UTI Programs Underway
Adaptive Dosing Designs Employed in Cystitis and Acute Pyelonephritis Studies

~200 patients

**Cystitis**
- Oral omadacycline (up to 450mg) for 7 days
- Oral nitrofurantoin for 7 days

Day 1
Day 7
End of Treatment (EOT)
Day 14 (+/- 2d)
Post-Therapy Evaluation (PTE)
Day 30 - 37
Final Follow-up

**Acute Pyelonephritis**
- IV omadacycline for 7-10 days
- IV to oral omadacycline for 7-10 days
- IV to oral levofloxacin for 7-10 days

Day 1
Day 7-10
EOT
Days 21
(± 2 days)
PTE
Day 28
(± 2 days)
Final Follow-up

(1) Design and comparator subject to FDA discussions prior to initiation
NUZYRA IP Protection and Market Exclusivity
GAIN Act Ensures 10 Yrs.’ Market Exclusivity and Patent Term Extension protection to at least 2030

IP Protection:
- Key Composition of Matter Patent (U.S. 7,553,828) Expires June 2023
- Key Method of Use Patent (U.S. 9,265,740) Expires March 2029

Regulatory Protection:
- Hatch Waxman 5-years
- GAIN Act Extension 5-years

Follow-On IP Protection:
Issued Patents and Pending Applications Covering Salts, Polymorphs, Formulations, Methods of Use, Methods of Manufacture, Modes of Administration, and Dosage Regimens
Equity Research Analyst Coverage

<table>
<thead>
<tr>
<th>Firm</th>
<th>Analyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baird</td>
<td>Mike Ulz</td>
</tr>
<tr>
<td>Bank of America</td>
<td>Jason Gerberry</td>
</tr>
<tr>
<td>BTIG Research</td>
<td>Robert (Bert) Hazlett</td>
</tr>
<tr>
<td>Cantor Fitzgerald</td>
<td>Louise Chen</td>
</tr>
<tr>
<td>Canaccord Genuity</td>
<td>Dewey Steadman</td>
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<tr>
<td>Gabelli</td>
<td>Kevin Kedra</td>
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<tr>
<td>Guggenheim</td>
<td>Adnan Butt</td>
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<td>HC Wainwright</td>
<td>Ed Arce</td>
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<td>Ladenburg Thalmann</td>
<td>Mike Higgins</td>
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<tr>
<td>Leerink Partners</td>
<td>Ami Fadia</td>
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<tr>
<td>Raymond James</td>
<td>Laura Chico</td>
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<tr>
<td>Wedbush</td>
<td>Robert Driscoll</td>
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<tr>
<td>LifeSci Advisors</td>
<td>David Sherman</td>
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</table>

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## Paratek Investment Highlights

**NUZYRA™: Potential Blockbuster Antibiotic in Both Hospital and Community Settings**

<table>
<thead>
<tr>
<th>Potential Blockbuster Antibiotic with NUZYRA</th>
<th>Clear Registration Path: U.S. FDA and EU EMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1st FDA approved once-daily IV &amp; oral antibiotic to treat both CABP and ABSSSI in nearly 20 years</td>
<td>• NUZYRA approved in the United States; October 2018</td>
</tr>
<tr>
<td>• &gt; $9 Billion Potential Addressable Market in U.S. alone*</td>
<td>• Filed in the EU in October 2018: Review has been initiated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Pipeline Potential</th>
<th>Capital Efficient Commercial Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>• UTI Ph2 Studies underway: Data Expected in H2 2019</td>
<td>• Significant Value Proposition = Hospitalization Minimization</td>
</tr>
<tr>
<td>• Biodefense opportunity: Tx &amp; prophylaxis in plague and anthrax</td>
<td>• Hospital Promotion Without Branded Once-Daily Broad-spectrum IV + Oral Competitors</td>
</tr>
<tr>
<td>• Life-cycle opportunities: Oral-Only in CABP, Prostatitis, Rickettsial Disease</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-dilutive Funding Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Omadacycline: Ex-U.S. Commercial Rights (except China)</td>
<td></td>
</tr>
<tr>
<td>• Sarecycline: U.S. Royalties (Almirall S.A.**); Ex-U.S. Rights (PRTK)</td>
<td></td>
</tr>
</tbody>
</table>

(*) Paratek estimates based on 2015 AMR data current treatment failure rates and a Zyvox 2015 pricing analogue
(**) Almirall, S.A. licensed U.S. development & commercial rights