



# UROGEN PHARMA

J.P. MORGAN 2021 HEALTHCARE CONFERENCE  
JANUARY 13, 2021



# Forward Looking Statements

This investor presentation contains forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995, including, without limitation: the potential market opportunity of Jelmyto in LG-UTUC; commercial plans for favorable market access and both patient and physician uptake; expected interest in prescribing Jelmyto; the continued successful launch of Jelmyto; the potential of UroGen's proprietary RTGel™ technology platform to improve therapeutic profiles of existing drugs to advance the treatment of specialty cancers and urologic disease; the opportunity and potential of UGN-102 for LG-NMIBC and potential advantages over TURBT; the market opportunity for UGN-102 in LG-NMIBC; plans to initiate a Phase I study with UGN-201 in HG-NMIBC; the anticipated enrollment and design of the ATLAS Phase 3 trial for UGN-102 in LG-IR-NMIBC the estimated U.S. population treated annually for LG-NMIBC, HG-NMIBC and UTUC; plans to investigate UGN-201 in combination with UGN-301 (AGEN1884) in HG-NMIBC; the market opportunity and potential of UGN-301 in HG-NMIBC; plans to build a sustainable growth company; projections of revenue opportunities in markets of interest; capitalization to advance Jelmyto launch and specific clinical development programs; anticipated collaborations and partnerships with leading academic institutions, biotech and pharma; plans to continue exploration of the RTGel hydrogel formulation in combination with AbbVie's portfolio of clostridial toxins in OAB and other patient populations; and financial strength and guidance, including expected cash runway. These statements are subject to a number of risks, uncertainties and assumptions, including, but not limited to: the risks associated with Covid-19 and other pandemic risks,, the timing and success of clinical trials,, our ability to enroll patients in the ATLAS trial on a timely basis, or at all; the ATLAS Phase 3 trial and potential safety and other complications thereof; the ability to obtain regulatory approval within the timeframe expected, or at all; the ability to maintain regulatory approval; complications associated with product development and commercialization activities, including complications resulting from the ongoing COVID-19 pandemic; the labeling and packaging for any approved product; the scope, progress and expansion of developing and commercializing UroGen's product candidates; the size and growth of the market(s) therefor and the rate and degree of market acceptance thereof vis-à-vis alternative therapies; UroGen's ability to attract or retain key management, members of the board of directors and personnel and any negative effects on UroGen's business, commercialization and product development plans caused by or associated with COVID-19. In light of these risks and uncertainties, and other risks and uncertainties that are described in the Risk Factors section of UroGen's Form 10-Q filed with the SEC on November 9, 2020, and other filings that UroGen makes with the SEC from time to time (which are available at <http://www.sec.gov>), the events and circumstances discussed in such forward-looking statements may not occur, and UroGen's actual results could differ materially and adversely from those anticipated or implied thereby. Any forward-looking statements speak only as of the date of this presentation and are based on information available to UroGen as of the date of this presentation.

# UroGen is at a Key Inflection Point to Deliver for Patients

## EXECUTE

Launched **JELMYTO®**  
for **LG-UTUC** in U.S. in  
June 2020

**Strong momentum and  
early uptake** with  
physicians and patients  
within first 6 months

## ACCELERATE

**UGN-102** developed to  
potentially transform  
standard  
of care for **LG-IR-NMIBC**

Drawing on experience  
and similarities from  
**Jelmyto**

## INNOVATE

Pipeline focused  
on unmet need in  
**URO-ONCOLOGY**

Leading **novel  
immuno-oncology**  
product candidate  
combines agonist  
and antagonist

## PARTNER

Advancing **RTGel**  
technology through  
strategic collaborations  
including leading  
academic centers

Potential **ex-US**  
expansion

# RTGel™ Reverse-Thermal Hydrogel Technology Offers New Approach

Urothelial cancers have been challenging to treat due to physiologic barriers and intolerance of foreign materials in the urinary tract

RTGel exists as a liquid at lower temperatures and converts to gel form at body temperature



RTGel has the potential to advance the treatment of specialty cancers and urologic diseases by:

- Increasing dwell time and exposure of active drugs, potentially improving the therapeutic effects of existing products
- Potentially increasing the viability of organ-sparing techniques and providing alternatives to radical surgery
- Leveraging physiologic flow of urine to provide natural exit from the body

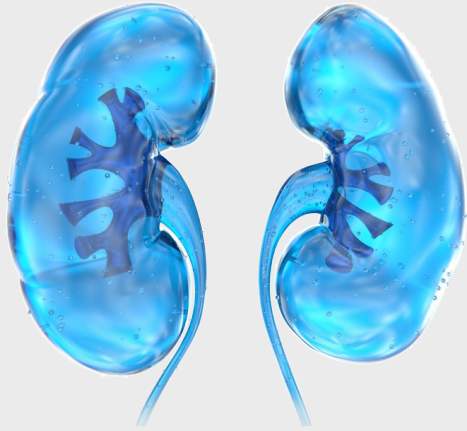


# Advancing Novel Uro-Oncology Programs

| Pipeline   | NONCLINICAL | PHASE 1  | PHASE 2 | PHASE 3 | REGISTRATION | APPROVED |
|--|-------------|--|---------|---------|--------------|----------|
| URO-ONCOLOGY   |             |  |         |         |              |          |
| Jelmyto® (mitomycin) for pyelocalyceal solution: Low-grade upper tract urothelial carcinoma (UTUC) |             |  |         |         |              |          |
| UGN-102: Low-grade intermediate risk non-muscle invasive bladder cancer (NMIBC)                    |             |  |         |         |              |          |
| IMMUNO-URO-ONCOLOGY  |             |  |         |         |              |          |
| UGN-201 (TLR 7/8 agonist): High-grade non-muscle invasive bladder cancer (NMIBC)                   |             |  |         |         |              |          |
| UGN-302: High-grade non-muscle invasive bladder cancer (NMIBC)                                     |             | UGN-201 + zalifrelimab (CTLA-4) Local Delivery |         |         |              |          |
| Partners   | NONCLINICAL | PHASE 1  | PHASE 2 | PHASE 3 | REGISTRATION | APPROVED |
| UROLOGY  |             |  |         |         |              |          |
| AbbVie Toxin proteins /RTGel reverse-thermal hydrogel  |             |  |         |         |              |          |

# Unlocking the Uro-Oncology Market-Building a Company

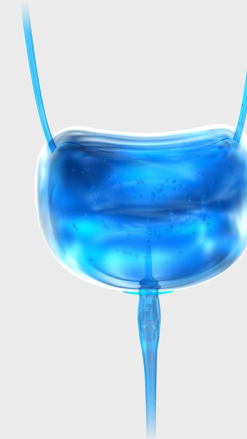
## Low-grade Upper Tract Urothelial Carcinoma (UTUC)



**~6,000 – 7,000**  
addressable  
population

Jelmyto – only  
FDA-approved  
medicine

## Low-grade Non-muscular Invasive Bladder Cancer (NMIBC)



**~80,000**  
intermediate-risk  
LG NMIBC

Last drug  
approved  
>15 years ago

**~\$1 Billion Potential Peak Revenue Opportunity**

# 2020 Achievements and Upcoming Milestones

| 2020   | 1H 2021  | 2H 2021   |
|--|--|---|
| <ul style="list-style-type: none"><li>✓ Jelmyto FDA approval</li><li>✓ Jelmyto U.S. launch</li><li>✓ J-code received</li><li>✓ UGN-102 OPTIMA II final topline results</li><li>✓ UGN-102 ATLAS Phase 3 initiation</li><li>✓ Expansion of leadership team</li></ul> | <ul style="list-style-type: none"><li>✓ Implementation of Jelmyto permanent J-code in January</li><li>❑ Potential UGN-102 Phase 2b publication</li><li>❑ Advancement of UGN-302 program</li><li>❑ Potential collaborations and partnerships with leading academic institutions, biotech and pharma</li></ul> | <ul style="list-style-type: none"><li>❑ Jelmyto life-cycle management</li><li>❑ Expected update on ex-US opportunity with Jelmyto</li><li>❑ UGN-102 Phase 3 ATLAS trial enrollment updates</li><li>❑ Potential collaborations and partnerships with leading academic institutions, biotech and pharma</li></ul> |

# Jelmyto U.S. Launch

Changing the treatment paradigm of urothelial cancers with first approved product





# JELMYTO First & Only FDA Approved Non-Surgical Treatment for Patients with LG-UTUC



- **Approved in U.S. on April 15, 2020**
- **Strong initial launch execution**
  - Launched on June 1, 2020
  - NCCN guidelines updated within two weeks of approval
- **Rapid adoption**
  - **3Q20** revenue of **\$3.5 million** in first quarter of commercial launch
- **Clinically meaningful data**
  - 58% Complete Response in OLYMPUS trial<sup>1</sup>
  - Kaplan-Meier estimated duration of CR at 12-months of 81.8%; median time to recurrence not reached<sup>2</sup>

1. Important Safety Information and the full Prescribing Information available at [https://www.urogen.com/download/pdf/jelmyto\\_prescribing.pdf](https://www.urogen.com/download/pdf/jelmyto_prescribing.pdf)

2. Matin, Surena F. SUO 2020, #1003

# JELMYTO Potential to Avoid Kidney Removal in Low-Grade Upper Tract Urothelial Carcinoma (LG-UTUC)

Addressable Patients: 6,000-7,000 eligible patients in the U.S. annually, includes:

Newly Diagnosed: **2,800-3,200<sup>1</sup>**

- Newly Diagnosed Treatment Options**
- RNU
  - Endoscopic Management

Recurrent Patients: **3,000-4,000<sup>2</sup>**

- Recurring Patients Treatment Options**
- RNU
  - Additional Endoscopic Management

- 70%-80% of LG UTUC patients ultimately receive nephroureterectomies<sup>3</sup>
- Jelmyto may decrease the need for RNU, potentially sparing the kidney
- UC is the most costly cancer in the U.S. health care system on a per-patient basis<sup>4</sup>

# JELMYTO Changing the LG-UTUC Landscape - U.S. Launch Update\*

## Patient Adoption

**Over 210**

practices/hospitals activated

- High volume of completed patient enrollment forms suggest **future uptake** in patients for **Jelmyto**
- **Aided awareness of over 90%** due to commercial efforts<sup>1</sup>



**Expected interest  
in prescribing  
JELMYTO over next  
12 months<sup>2</sup>**

## Reimbursement

- **Permanent J code** effective January 1, 2021 to standardize and facilitate reimbursement in surgery centers and hospitals; **ASP +6% implemented**

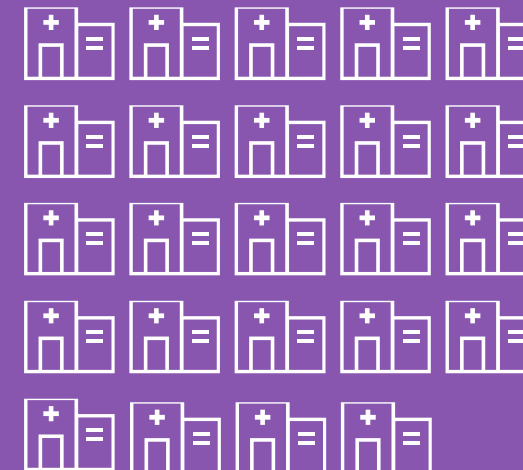
- Majority of large commercial plans have policies in place, covering over

**150 million  
lives**

## Seamless Integration Into Physician Practice

**24 accounts**

have treated more than one patient



\*Numbers as of December 31, 2020

<sup>1</sup>Urogen market research (Mar 18 n=106, Feb 19 n=108, Dec 19 n=108, Aug 20 n=101)

<sup>2</sup>UroGen market research, 87 urologists surveyed who are not currently prescribing Jelmyto (September 2020)



# UGN-102

Potential to transform the treatment paradigm in Low Grade Intermediate Risk Non-Muscle Invasive Bladder Cancer (LG-IR-NMIBC)



UGN-102 (mitomycin) for intravesical solution is an investigational agent. The safety and effectiveness of UGN-102 have not been established.  
LG-IR-NMIBC = Low Grade Intermediate Risk Non-Muscle Invasive Bladder Cancer



# UGN-102 Potential to be the First Primary Non-Surgical Chemoablative Therapy in Low-Grade Intermediate Risk Disease

## Defining Non-Muscle Invasive Bladder Cancer

### Low Grade IR

- **Issue:** chronic relapse
- Current treatment:
  - Repetitive **TURBT**
- Incidence: ~**20 K**
- Recurrent: ~**60 K**
- Limited competition
  - **UGN-102** is furthest along in clinical development as primary chemoablative therapy

**BCG is not used in low-grade disease**

VS

### High Grade

- **Issue:** progression, metastasis & death
- Current treatment:
  - **TURBT**                      – Clinical trials
  - BCG                              – Radical Cystectomy
- Incidence: ~**25 K**
- BCG-refractory: ~**15 K**
- Clinical trials ongoing in BCG-refractory populations
  - Significant unmet need given low response rates and durability
  - Goal is to avoid radical cystectomy (bladder removal)

# UGN-102 Focus on Improving Patient Outcomes with Non-Invasive, Durable Option for LG-IR-NMIBC

Addressable Patients: ~80,000 patients in the U.S. annually, includes:

Newly Diagnosed: 20,000<sup>1</sup>

Treatment Options

- TURBT

Recurrent Patients: 60,000<sup>2</sup>

Treatment Options

- TURBT
- TURBT + adjuvant chemotherapy<sup>3\*</sup>

- **IR patients are characterized by 1-2 of the following:**
  - Multiple tumors, tumor size >3cm, early recurrence (<1 year), frequent recurrences (>1 per year)
- **More than 1 recurrence increases the likelihood of additional recurrences**
  - Ranges from 13% for recurrence one to 100% for recurrence seven onwards<sup>4</sup>
- **Median age of patients is in early 70's adding to risk of complications**
  - Morbidity substantial (highest rate of readmission for outpatient urologic surgery)

1. SEER, AUA/SUO joint guideline 2. Babjuk et al. European Urology (2019), Simon (2019), 3. Tobert et al Urology (2019), Rhijn et al Nature Urology (2016),

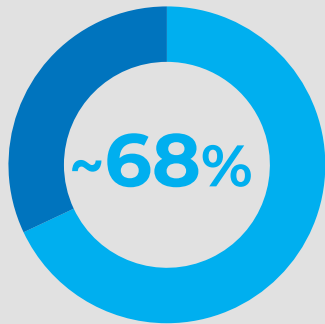
4. Bryan et al Ann R Coll Surg Engl (2010)

\*Adjuvant chemotherapy only used in 0-30% of U.S. eligible population

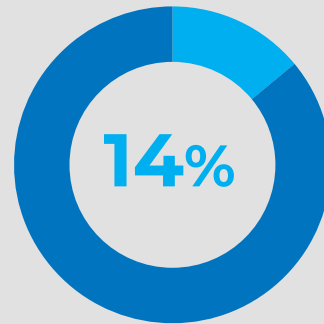
TURBT = trans urethral resection of bladder tumor

# UGN-102 Patients and Physicians Seek a Better Therapeutic Experience

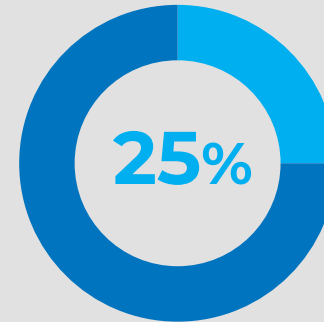
~**68%** of recurrent patients **have 2 or more recurrences**<sup>1</sup>



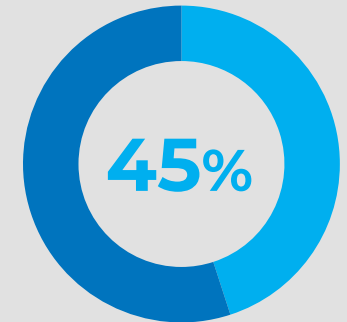
**Repeat TURBT** associated with **increased mortality** of **14%** independent of surgical risk <sup>2</sup>



Preliminary market research shows that physicians identify **25%** of these patients as **ineligible or averse to surgery**<sup>3</sup>



**45%** of surveyed patients **chose intravesical chemotherapy** over TURBT<sup>4</sup>



**UGN-102 is designed to be primary therapy, not adjuvant therapy, providing a potential alternative to invasive surgery**

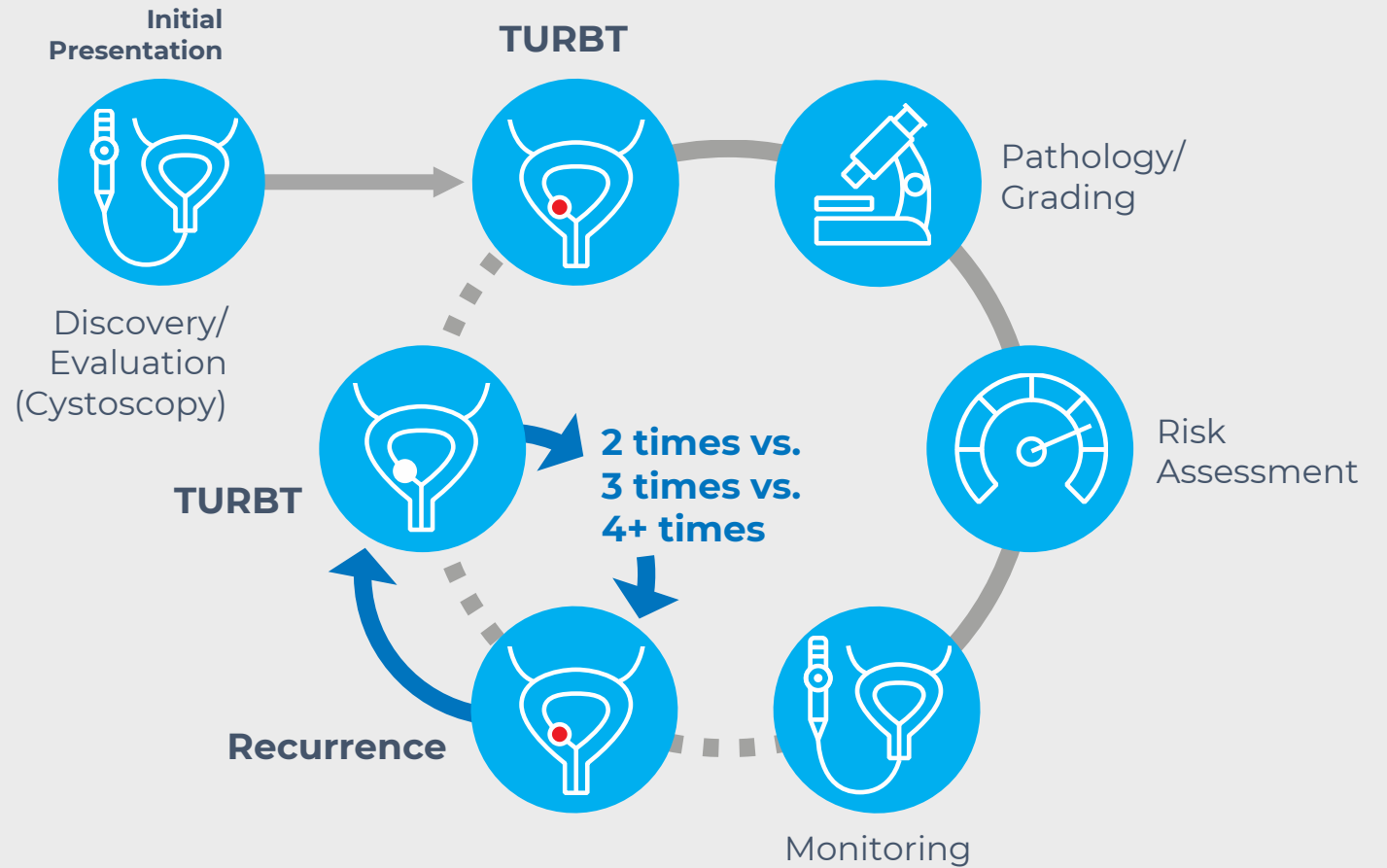
1. Babjuk et al. European Urology (2019), Simon (2019), UroGen projections based on SEER (2016) 2. Erikson et al. Scan J Urol & Nephrol (2020) 3. UroGen market research (n=20 urologists, October 2019) 4. Parisse et al. SUO 2020

# UGN-102 Clear Opportunity to Treat Recurring Patients with Efficacious Alternative to TURBT

## Patients fall into a cycle of frequent recurrences after repeated TURBT failures

- High unmet need exists with “surgical failures”: recurrence high, risk of progression low
- In UGN-102 Phase 2b study, 57% of patients had 3 or more prior TURBT at baseline
- UGN-102, if approved, moves care from OR to office/ASC with a potential to decrease cost and morbidity of contemporary therapy

## Current Standard of Care





# UGN-102 Clinical and Regulatory Success in LG-UTUC Encouraging for LG-IR-NMIBC Opportunity

**Molecular profiling shows that LG-NMIBC and LG-UTUC are likely the same disease at a genetic mutational driver level**

**Approach is consistent: chemoablate the tumor, avoid surgery**

- ✓ Same urologists treating both patient populations
- ✓ Similar proposed in-office dosing
- ✓ Well understood safety profile
- ✓ Consistent manufacturing and supply chain

Similar complete and durable response rates from **Jelmyto** and **UGN-102**:

## Jelmyto Phase 3 OLYMPUS study (LG-UTUC)

58% CR

81.8%\* Duration of Response

## UGN-102 Phase 2B OPTIMA study (LG-IR-NMIBC)

65% CR

72.5%\* Duration of Response

Clinically meaningful data and approval of **Jelmyto** in **LG-UTUC** bodes well for **'102** program in **LG-IR-NMIBC**

CR = complete response evaluated at 3 months

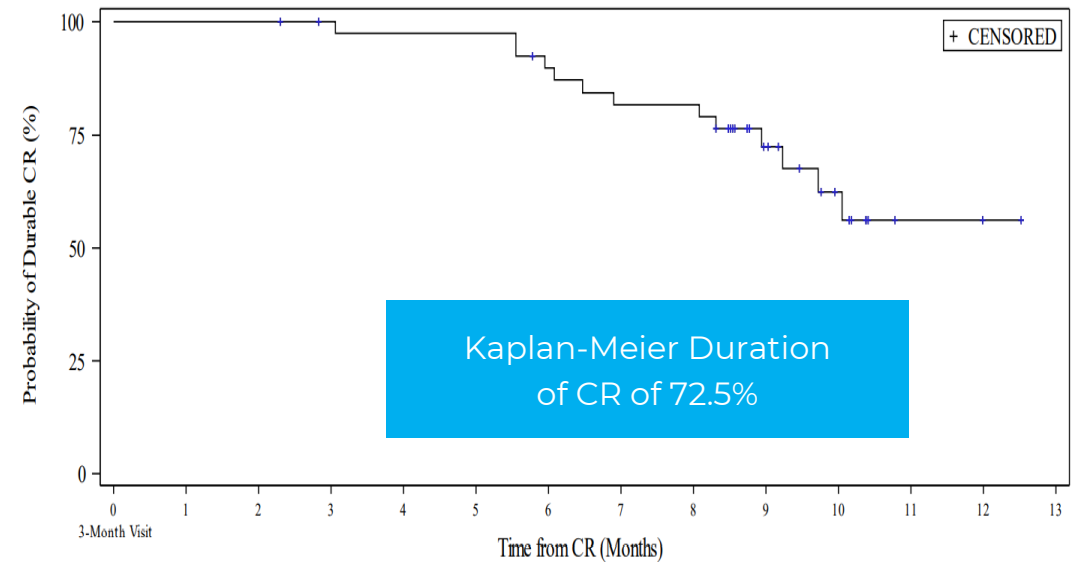
\*Duration of response estimated at 12 months from initiation of therapy by Kaplan-Meier method

# UGN-102 Complete and Durable Responses Observed with UGN-102 in Phase 2b OPTIMA II trial

**65% (41/63) Complete Response** at 3-months\*

**Duration of response** estimated to be **72.5%** at 12 months from initiation of therapy by Kaplan-Meier method

**Median duration of response was not reached**



The majority of adverse events were reported as mild or moderate; the most commonly reported **AEs** ( $\geq 10\%$ ) were: dysuria, hematuria, urinary frequency, fatigue, urgency and urinary tract infection

# UGN-102 ATLAS Trial: Studying Differentiated Therapeutic Option vs. Standard of Care Surgery

**Treatment arms:**

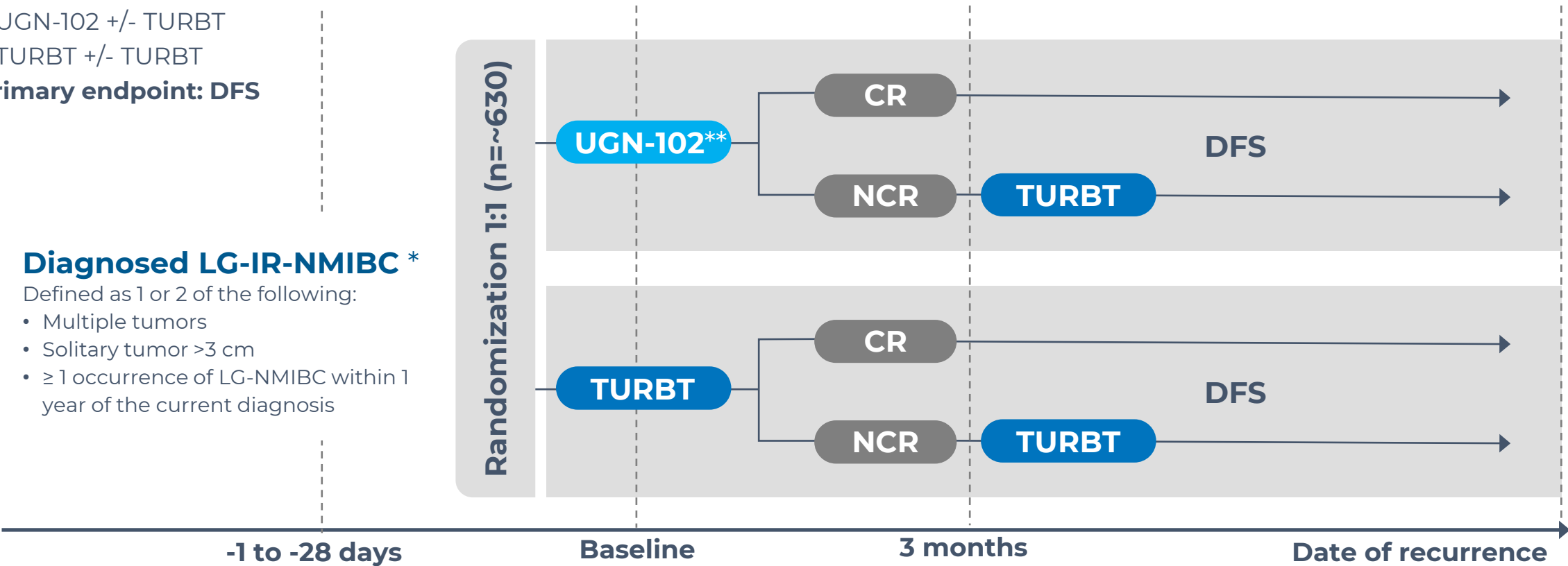
- UGN-102 +/- TURBT
- TURBT +/- TURBT

**Primary endpoint: DFS**

**Diagnosed LG-IR-NMIBC \***

Defined as 1 or 2 of the following:

- Multiple tumors
- Solitary tumor >3 cm
- ≥ 1 occurrence of LG-NMIBC within 1 year of the current diagnosis



19 \*Screening procedures to provide evidence of low grade NMIBC; no evidence of high-grade disease; \*\*6 weekly doses  
CR = complete response, NCR= non-complete response, DFS= disease-free survival, TURBT= transurethral resection of bladder tumor



# UGN-302

Innovating in High Grade Disease

UGN-302 is a combination therapy evaluating the investigational agents UGN-201 and UGN-301. The safety and effectiveness of UGN-302 have not been established.



# UGN-302 Designed to Address Life-Threatening Disease with Risk of Disease Progression

## Defining Non-Muscle Invasive Bladder Cancer

### Low Grade IR

- **Issue:** chronic relapse
- Current treatment:
  - Repetitive **TURBT**
- Incidence: ~20 K
- Recurrent: ~60 K
- Limited competition
  - **UGN-102** is furthest along in clinical development as primary chemoablative therapy

**BCG is not used in low-grade disease**

VS

### High Grade

- **Issue:** progression, metastasis & death
- Current treatment:
  - **TURBT**                      – Clinical trials
  - BCG                          – Radical Cystectomy
- Incidence: ~25 K
- BCG-refractory: ~15 K
- Clinical trials ongoing in BCG-refractory populations
  - Significant unmet need given low response rates and durability
  - Goal is to avoid radical cystectomy (bladder removal)

# UGN-302 Significant Need for Durable Treatments to Avoid Bladder Removal in HG-NMIBC

Initial focus on BCG-refractory patients: ~15,000 addressable patients in the U.S. annually

Newly Diagnosed HG NMIBC: 25,000<sup>1</sup>

BCG-Refractory: 15,000<sup>2</sup>

Treatment Options

- TURBT + intravesical chemotherapy (BCG)
- BCG alone

Treatment Options

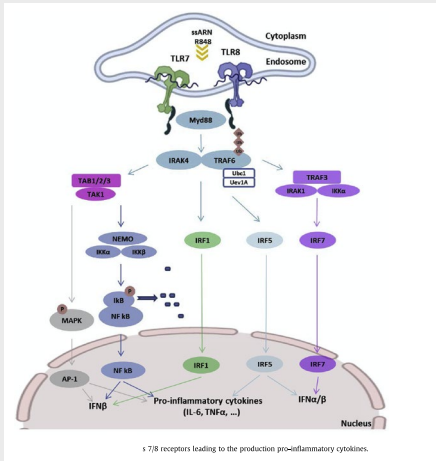
- Intravesical chemotherapy:
  - Gemcitabine / Docetaxel
- Keytruda
- Clinical trials
- Cystectomy

Radical cystectomy (bladder removal) is characterized by high complication rates (sepsis, bowel obstruction, urinary incontinence)

BCG is in short supply, with limited options post BCG failure

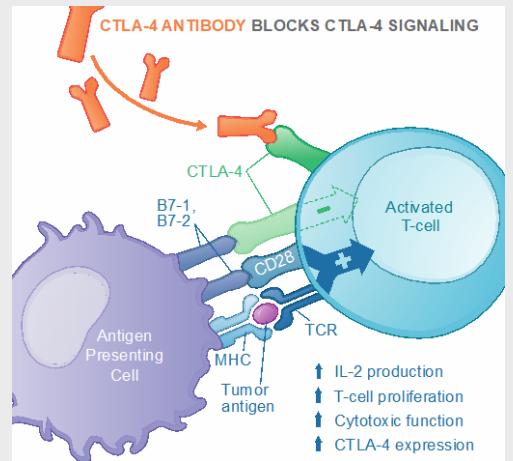
- Estimated 1-2 years to cystectomy for patients who are BCG-refractory
- Risk of progression to muscle invasive cancer

# UGN-302 Encouraging Activity with Novel Agonist / Antagonist Immunotherapy Combination



**TLR 7/8 (UGN-201):** stimulate cytokines and T & B cells

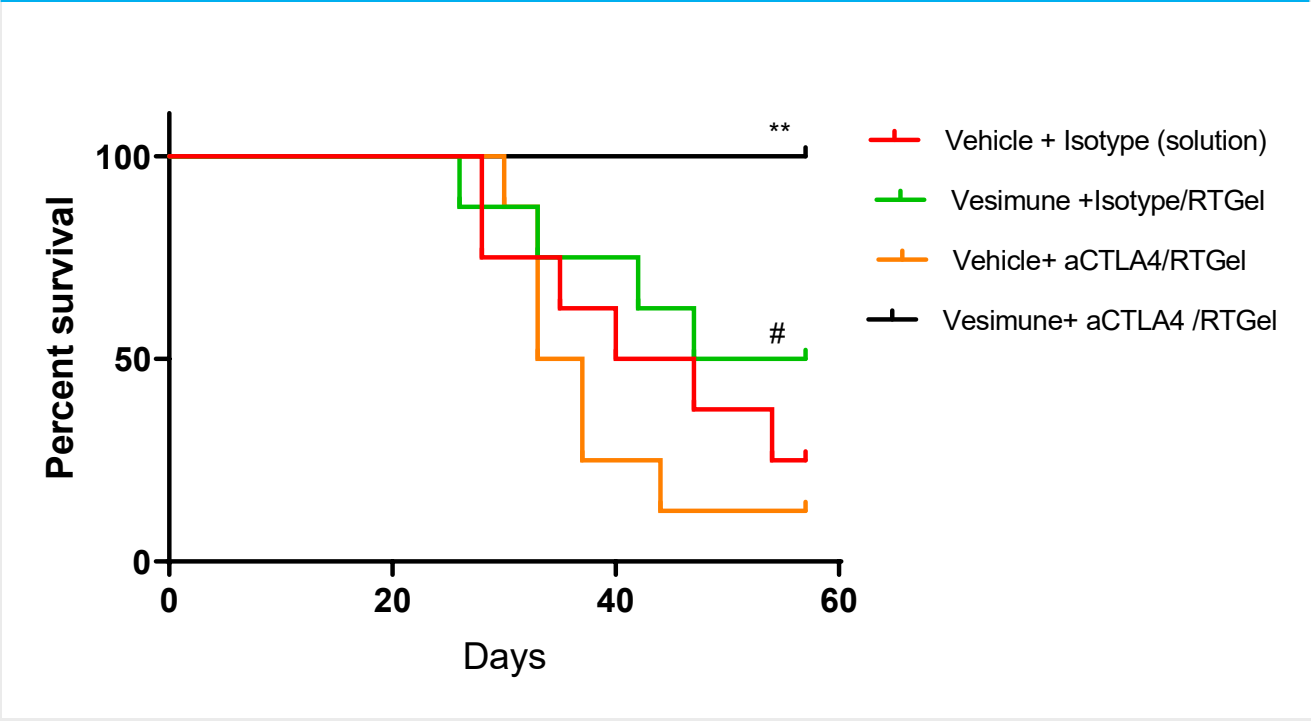
Phase 1&2 human data suggest UGN-201 activity in human bladder cancer



**Anti-CTLA4 (UGN-301):** blocks "cancer masking" action of CTLA4

HG-NMIBC is responsive to immunomodulation as evident from experience with BCG

**UGN-201 + UGN-301 = UGN-302:** Non-clinical data suggest improved survival (murine) and decreased tumor size when **201** and a **CTLA4** inhibitor are combined







Looking Ahead

# Broad IP Estate and Significant Know-How To Protect Our Innovations

**16 granted U.S. patents** protecting **Jelmyto**, **UGN-102**, proprietary **RTGel** technology, as well as local compositions comprising **different active ingredients or combinations thereof**

**Jelmyto:**

- Composition of matter to 2031
- Orphan drug exclusivity to 2027

**UGN-102:**

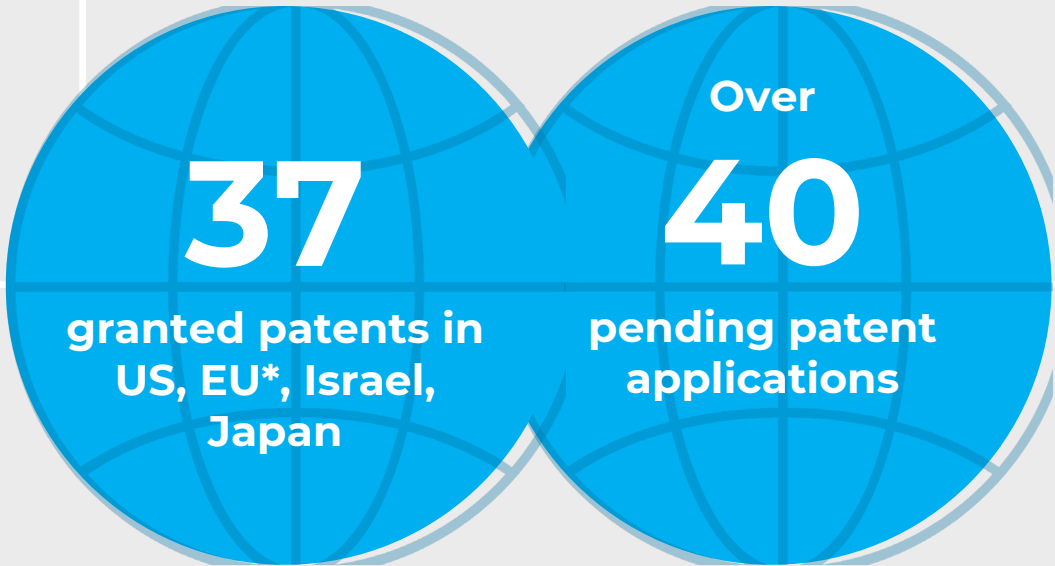
- Composition of matter to 2031

**UGN-302:**

- Method of treatment (with the combination of UGN-201 & UGN-301) to 2037



IP focused on cancer in internal cavities, in particular urinary tract cancer



**Pending patents** covering methods, systems and compositions for treating cancer locally, intravesically and using various active ingredients and combinations

If issued, will expire **between 2031 and 2037**

**Key patents for future product candidates in development expected to expire between 2031-2037**

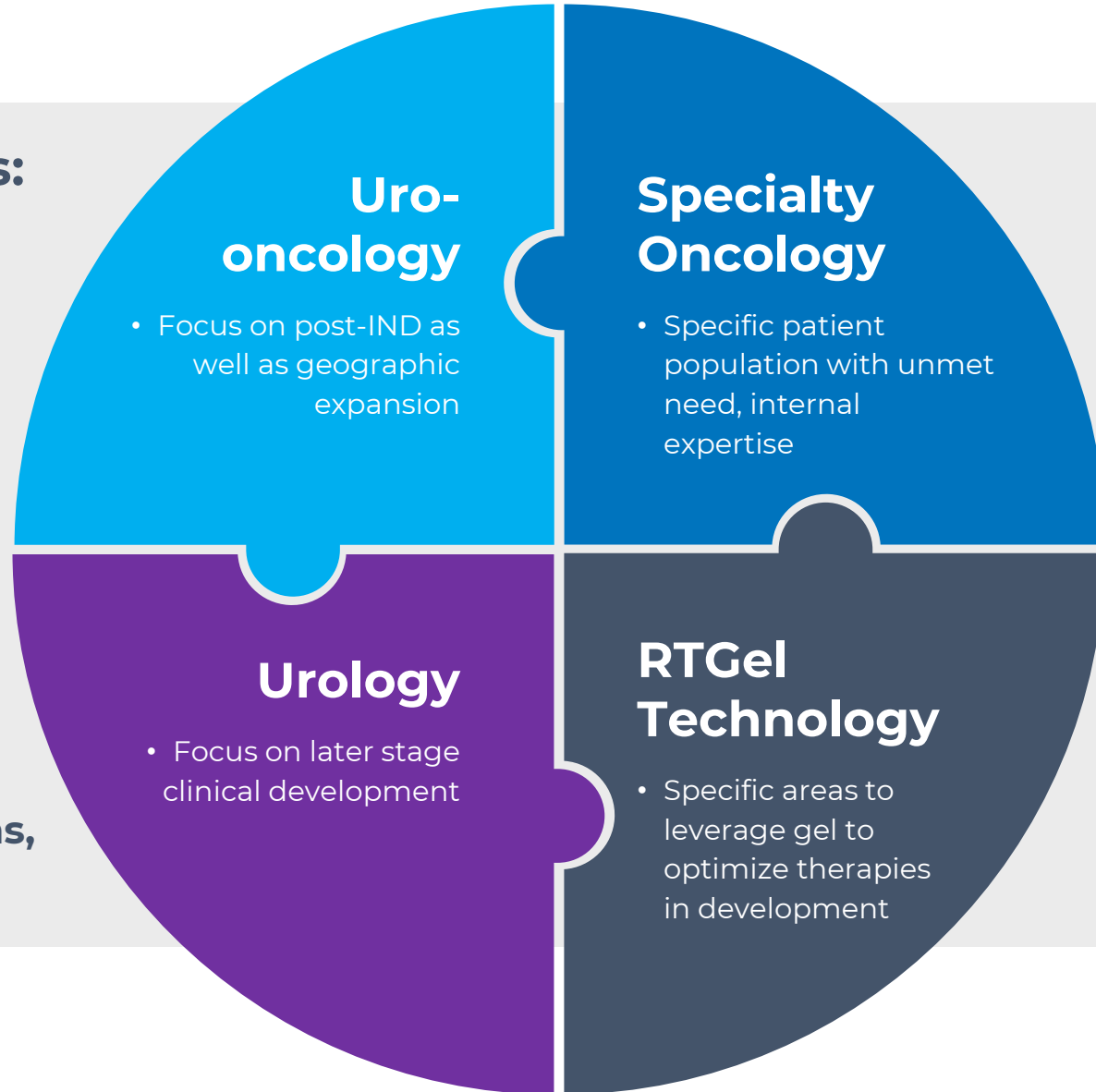


# Driving Further Growth with Business Development and Geographic Footprint Expansion

## Focused on 4 key areas:

- Sustained, nearer-term revenue growth
- Innovation
- High unmet need
- Cost-effective, value-creating

Potential partnerships with leading academic institutions, biotech, pharma



Learnings from **RTGel** with **Botox** help inform future opportunities and selection of size of molecule

# Financial Highlights as of September 30, 2020

**\$3.5 Million**

Jelmyto revenue in  
first full quarter of  
commercialization

**\$125.5 Million**

Cash and cash  
equivalents\*

**Into 2022**

Expected cash  
runway with cash  
on hand

**22.1 million**

Shares outstanding  
(25.5 million fully  
diluted)



# Transforming Uro-Oncology and Achieving Value Recognition in 2021

- ❑ Continue Jelmyto launch momentum and efforts to establish as standard of care in LG-UTUC
- ❑ Execute ongoing Phase 3 ATLAS trial in LG-IR-NMIBC offering the potential to transform the treatment paradigm
- ❑ Develop UGN-302 as novel immuno-oncology combination to treat aggressive disease
- ❑ Drive portfolio expansion through potential business development and academic partnerships
- ❑ Expand reach of innovative pipeline and platform with ex-US expansion

ACT BOLDLY | BE INVENTIVE | STAY CONNECTED

THANK YOU

