

URO-ONCOLOGY DIALOGUE

Update on NMIBC PMH Trials

Girish Kulkarni
Associate Professor, Urology
University of Toronto

Disclosures

 Advisory Boards: Janssen, Merck, Roche, Ferring, Astellas, Theralase

 Grants/Honoraria: Abbvie, Sanofi, Ferring, TerSera

 Clinical Trials: Merck, Astra Zeneca, Bristol Myers Squibb, Theralase

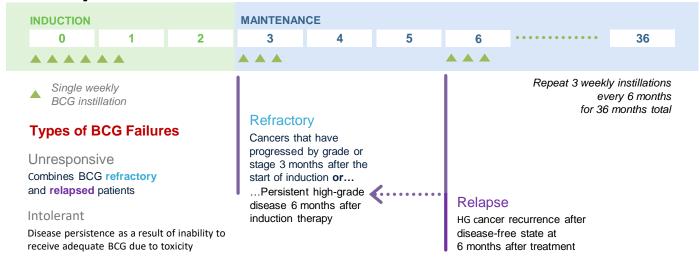
Learning Objectives

 To gain awareness of the "BCG Unresponsive" bladder cancer state

 To become familiarized with alternative therapies for BCG Unresponsive NMIBC

To be aware of clinical trials for NMIBC at PMH

SWOG regimen is the dosing schedule with the best efficacy evidence^{1–4}



- BCG = Bacillus Calmette-Guerin; HG = high grade; I-O = immuno-oncology; NMIBC = non-muscle-invasive bladder cancer.
- 1. TICE [package insert]. Whitehouse Station, NJ: Merck & Co Inc; 2016. 2. Lamm DL, et al. *J Urol*. 2000;163(4):1124–1129. 3. Kamat AM, et al. *Nat Rev Urol*. 2017;14(4):244–255. 4. Kamat AM, et al. *J Clin Oncol*. 2016;34(16):1935–1944. 5. Plan A epidemiology report

FDA definition of **BCG unresponsive** defined as at last 1 of:

- Persistent or recurrent CIS alone or with recurrent Ta/T1 disease within 12 mo completion of adequate BCG therapy
- Recurrent high grade Ta/T1 disease within 6 mo of completion of adequate BCG therapy
- T1 high-grade disease at the first evaluation following an induction BCG course

- Adequate defined as:
 - At least 5/6 doses initial induction + at least 2/3 doses maintenance
 - At least 5/6 doses initial induction + at least 2/6 doses of 2nd induction course

Management of BCG Failures

- Radical cystectomy is the treatment of choice
- 2nd induction BCG
 - 30-50% response rate
 - Cystectomy should be offered if BCG fails again
 - 3rd induction not recommended → 7% actuarial risk of progression with each additional course
- 2nd line intravesical agent options
 - IFN alpha, MMC, Gemcitabine, EMDA MMC BCG, combination chemo
- Clinical Trials

Novel Therapies and Trials I

TABLE 5-13 Novel Trials Involving Patients With Low- or Intermediate-Risk NMIBC

Trial name	Design	Primary endpoint(s)	NMIBC study population	
NCT03167151 (PemBla)	Phase 1/2 randomized: intravesical vs. IV pembrolizumab	Safety and AEs at 90 days	Intermediate risk	
NCT02075060 (IPOI vs. IPOP)	Phase 2 randomized: preoperative vs. postoperative MMC	PFS at 12 months	Low or intermediate risk	
NCT03081858	Phase 1/2 cohort: proliposomal intravesical paclitaxel (TSD-001)	MTD and marker lesion response rates	Low or intermediate risk	
NCT02852564	Phase 1 cohort: ethacrynic acid (Edecrin) oral	Urine concentrations of ethacrynic acid	Low, intermediate, or high risk	
NCT03298958	Phase 3 randomized: oral sirolimus (rapamycin) vs. placebo	RFS at 2 years	Low, intermediate, or high risk	
NCT02070120 (CALIBER)	Phase 2 randomized: TURBT vs. MMC	CR rate with chemoresection	Low or intermediate risk	
NCT02197897 (BCTamoxifen)	Phase 2 cohort: tamoxifen	Marker lesion response	Low or intermediate risk	
NCT03058757	Phase 2 randomized: preoperative MMC vs. standard of care	RFS	Low, intermediate, or high risk (not specified)	
NCT02695771	Phase 3 randomized: postoperative MMC vs. postoperative gemcitabine vs. standard of care	Safety and AEs	Low, intermediate, or high risk (not specified)	

Kulkarni and Klaassen, Bladder Cancer: Joint SIU ICUD Consultation 2018

Novel Therapies and Trials II

NMIBC RISK GROUPS

LOW/INTERMEDIATE RISK HIGH RISK: BCG NAIVE

- TC-3 Hydrogel
- GemRIS
- Pembrolizumab
- Proliposomal intravesical paclitaxel
- Ethacrynic acid
- Rapamycin
- Tamoxifen
- Perioparative MMC and gemcitabine

- IV gemcitabine + cisplatin
- Sunitinib
- Enzalutamide
- Coxsackie Virus A21
- BCG + ALT-803
- Percutaneous BCG vaccination
- M. tuberculosis vaccine
- recMAGE-A3 + AS15 ASCI vaccin
- BioCanCell Gene Therapy

IVe gemcitabine +

HIGH RISK: BCG FAILURE

- IVe cabazitaxel + gemcitabine + cisplatin
- IVe gemcitabine + oral everoliumus
- Vicinium
- TLD-1433

docetaxel

- Nad-rapamycin
- Imiquimod
- ALT-801
- Ethacrynic acid
- BGJ398
- Lenalidamide

- Dovitinib
- TC-3 hydrogel
- Polymeric micelles of docetaxel
- CG0070 oncolytic adenovirus
- HS-410
- PANVAC vaccine
- Pembrolizumab
- Atezolizumab
- VPM1002BC
- BCG + ALT-803
- BCG + rapamycin
- Vicinium
- rAd-IFN/Syn3

Select Study Highlights

- Keynote 057
- VISTA
- Theralase I

Completed or Near Completion

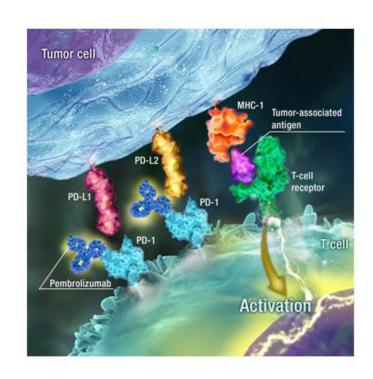
- Theralase II
- POTOMAC
- KN 676
- CheckMate-9UT

Newly opened

KEYNOTE 057
PEMBROLIZUMAB
MERCK
PHASE II TRIAL

NMIBC and the PD-1/L1 Pathway

- Activation of the PD-1 pathway has been implicated in resistance to BCG therapy¹
- The PD-1 inhibitor pembrolizumab has demonstrated significant antitumor activity in patients with metastatic urothelial carcinoma^{2,3}
- Little is known about anti–PD-1 monotherapy for NMIBC



KEYNOTE-057: Single-Arm, Open-Label Phase 2 Study (NCT02625961)

Patients

- HR NMIBC patients unresponsive to BCG who refuse or are ineligible for cystectomy
- Patients with papillary disease must have fully resected disease at study entry
- Two cohorts
- Cohort A (n = 130): CIS with or with out papillary disease (high-grade Ta or T1)
- Cohort B (n = 130): papillary disease (high-grade Ta or any T1) without CIS

cystoscopy, cytology, ±
biopsy Q12W × 2 y,
then Q24W × 2 y and
once yearly thereafter
and

CT urogram Q24W × 2 y or more frequently as clinically indicated

Evaluations with

If no persistence or recurrence of HR NMIBC at any assessment

If HR NMIBC present at any assessment

Continue assessments and pembrolizumab until recurrence of high-risk NMIBC, PD, or 24 months of treatment complete

Discontinue treatment; enter survival follow-up

Primary End Points

- CR (absence of HR NMIBC) in Cohort A
- · DFS in Cohort B

Secondary End Points

- CR (absence of any disease – high-risk or low-risk NMIBC) in cohort A
- · DOR in cohort A
- · Safety/tolerability

Key Efficacy and Safety

Complete Response Rate at Month 3^a

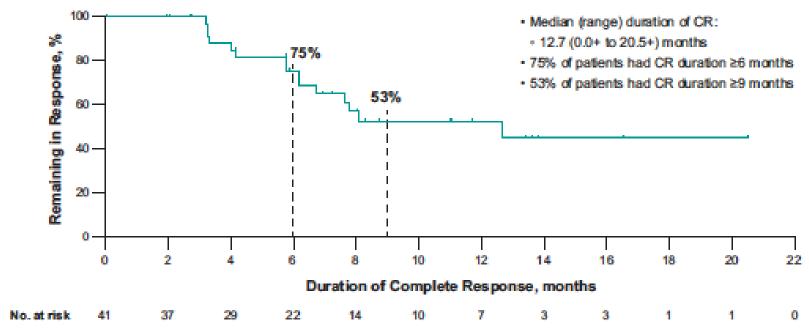
Adverse Event Summary

N = 102	Total Population			
N = 102	n %		95% CI	
CR	41	40.2	30.6-50.4	
Non-CR	57	55.9	45.7-65.7	
Persistent ^b	41	40.2	30.6-50.4	
Recurrent ^c	6	5.9	2.2-12.4	
NMIBC stage progression ^d	9	8.8	4.1-16.1	
Non-bladder malignancy ^e	1	1.0	0.0-5.3	
Progression to T2	0	0	NA-NA	
Nonevaluable ^f	4	3.9	1.1-9.7	

AE, n (%)	N = 102
≥1 AE	98 (96.1)
Treatment-related AE Grade 3-5 AE	66 (64.7) 29 (28.4)
Grade 3/4 treatment-related AE	13 (12.7)
Serious AE	24 (23.5)
Serious treatment-related AE	8 (7.8)
Immune-mediated AE	19 (18.6)
Grade 3/4 immune-mediated AE	3 (3.0)
Death	2 (2.0) ^g
Death because of treatment-related AE	0 (0)
Discontinuation because of AE	8 (7.8)
Discontinuation because of treatment-related AE	8 (7.8)
Discontinuation because of serious AE	4 (3.9)
Discontinuation because of serious treatment- related AE	4 (3.9)

Duration of Response

Figure 4. Duration of Response for Patients Who Achieved Complete Response at Month 3a,b



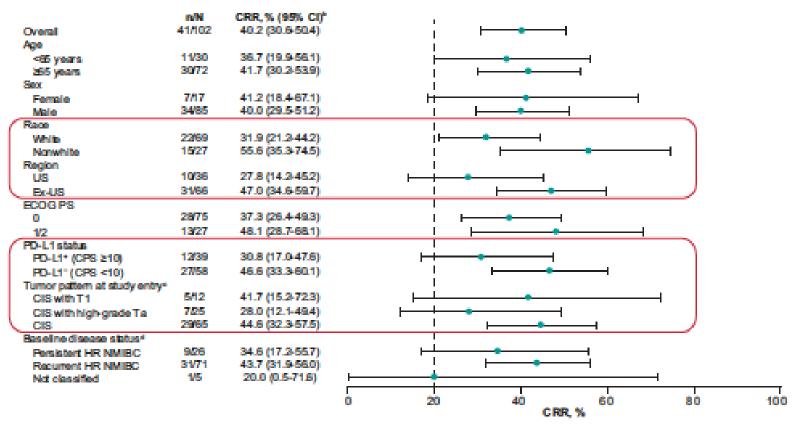
GR, complete response.

^{*1} month = 30.4367 days.

Month 0 = time point when initial CR was achieved.

Subgroup analyses: 3 month CR

Figure 5. Complete Reponse Rate at Month 3a by Subgroup Factors



VISTA TRIAL

VICINIUM

VIVENTIA → ELEVEN BIO → SESEN BIO

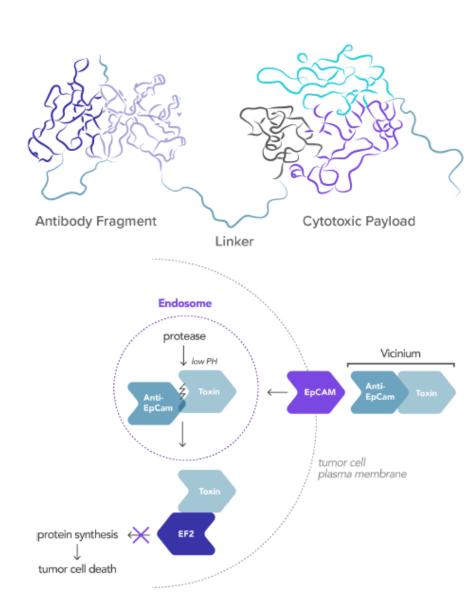
PHASE II TRIAL

Vicinium: Fusion Protein

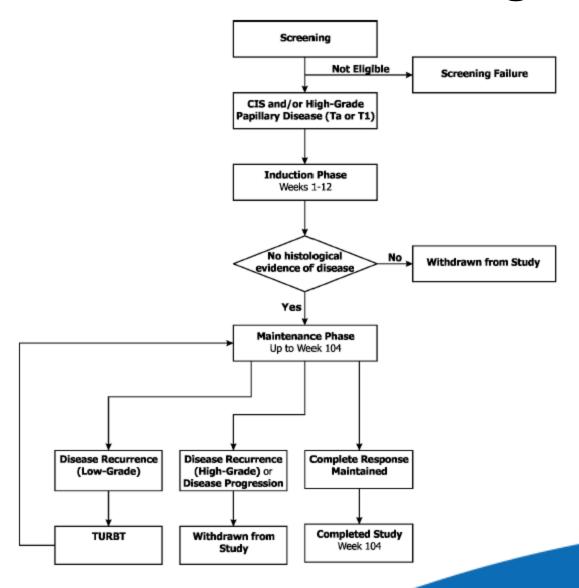
- Engineered as a single fusion protein comprising an antibody fragment, peptide tether and cytotoxic payload
- Peptide tether allows fusion protein to remain intact until internalized by cancer cell; avoiding normal tissue by bladder cancer cells
- Anti-EpCAM Ab fragment delivers toxin that kills tumor cells by blocking protein synthesis
 - Kills both rapidly proliferating and slower growing cancer cells
- EpCAM overexpressed in >98% of high grade NMIBCs*, minimal expression on healthy bladder tissue
- Potential to induce immunogenic cell death

ETA: Pseudomonas exotoxin A Potent: subpicomolar IC₅₀

* Data generated in prior Sesen BIO studies using internal antibody



Vicinium Trial Design



Vicinium Trial Design

- 2 hr instillations, rotating every 15 min
- Induction Phase
 - 30mg of 50mL saline administered twice a week for weeks 1-6
 - 30mg of 50mL saline administered weekly for weeks 6-12
- Maintenance Phase
 - 30mg of 50mL saline administered every other week from week 14 – 104

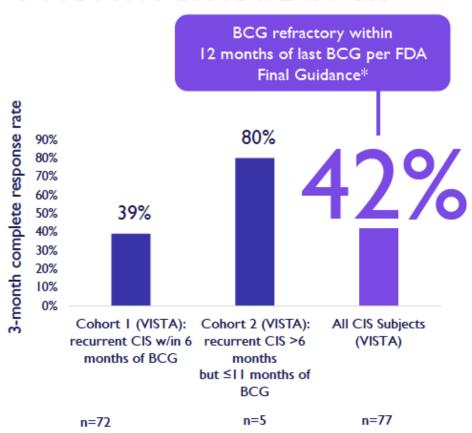
Patients

	COHORT I	COHORT 2	COHORT 3	
CHARACTERISTICS	CIS that recurred within 6 months of BCG	CIS that recurred >6 months but ≤11 months of BCG	Papillary (without CIS) that recurred within 6 months of BCG	
Total subjects enrolled	87	6	40	
Evaluable subjects at 3-months*	72	5	34	
Median age (current)	75	71	77	
Males/Females	54/18	4/1	29/5	
Median prior treatment for NMIBC				
BCG cycles Intravesical chemotherapy TURBT	4 (range 2-14) 1 (range 0-23) 4 (range 0-11)			

*Data as of 20 April 2018 cut-off

Early Results

3-MONTH CR RATE IN CIS



Subjects (n=129)	Treatment- Emergent SAEs ⁴	Treatment- Related SAEs	
Any Serious AE	17 (13%)	4 (3%)	
Acute kidney injury or renal failure	4	3	
Hematuria	3	0	
Cholestatic hepatitis	0	1	

Phase III Complete Response Rate

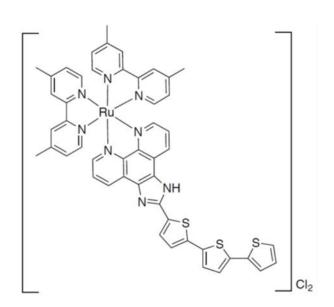
Cohort 1 (n=82) Complete Response Rate		
Time Point	Evaluable Patients	Complete Response Rate (95% Confidence Interval)
3-months	n=82	39% (28%-50%)
6-months	n=82	26% (17%-36%)
9-months	n=82	20% (12%-30%)
12-months	n=82	17% (10%-27%)

Cohort 2 (n=7) Complete Response Rate		
Time Point	Evaluable Patients	Complete Response Rate (95% Confidence Interval)
3-months	n=7	57% (18%-90%)
6-months	n=7	57% (18%-90%)
9-months	n=7	43% (10%-82%)
12-months	n=7	14% (0%-58%)

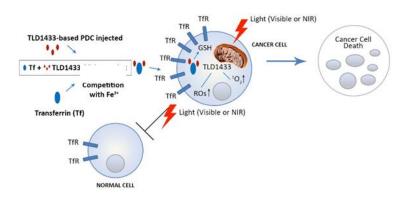
PHOTODYNAMIC THERAPY (PDT) TRIAL TLD-1433 THERALASE PHASE I TRIAL

Photodynamic Therapy Trial: Background Information

TLD1433



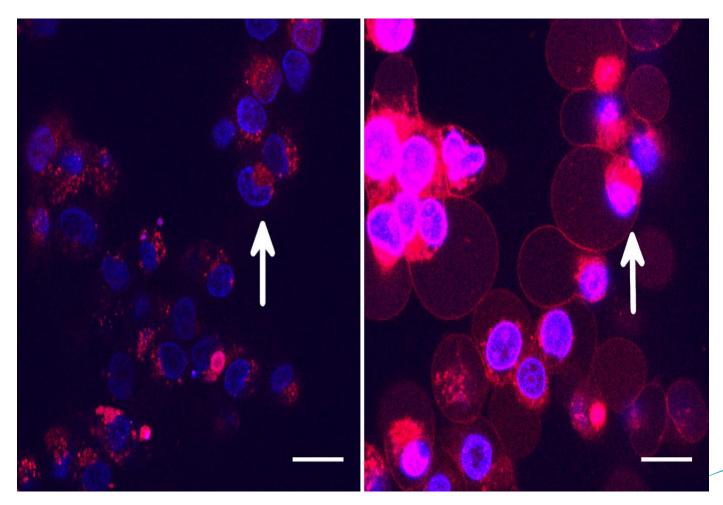
- 70 min instillation
- GA
- Exposure time calculated based
 On power delivery (up to 60 min)



- Soluble and stable in water
- High quantum yield and ROS production
- Preferential bladder tumor accumulation
- Exceptional ability to ablate in vivo tumors across multiple animal models
- Safe in GLP pharmacology and toxicology studies

TLD-1433 Localization

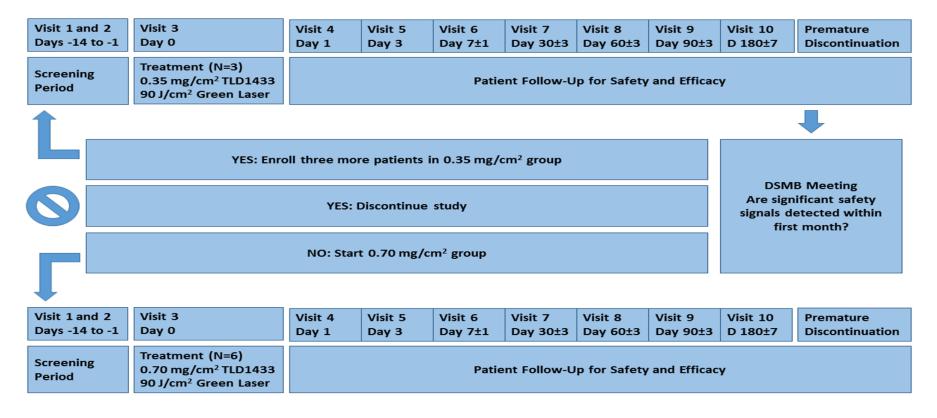
TLD-1433 localizes in the cytoplasm of the cancer cell (mitochondria)





Overall Study Design & Plan

The study will consist of 2 phases. In the first phase, 3 subjects will receive PDT employing 0.35 mg/cm2 (maximum recommended starting dose) TLD-1433. If treatment with the maximum recommended starting dose does not raise significant safety concerns, an additional 6 subjects will receive PDT with 0.70 mg/cm2 (therapeutic dose) TLD-1433.



2.4.2 The Probe

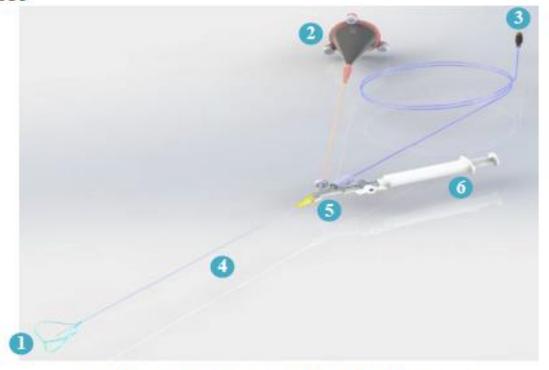


Figure 7: Laser Source Detector probe (TLC-34XX)

- 1. The Cage:
 - A. Cage Arms with Detectors: 3 flat bundles of 4 optical fibers
 - B. Emitter: a Spherical diffuser fibre movable relative to the detectors.
- Detector Plug: 12 position detector fiber connector
- 3. Emitter Connector: Single position FC connector
- Catheter Tube: This part of the probe is inside a catheter.
- 5. Three way Y swivel: 3 female and 1 male
- Syringe with a Stop cock: This is the port used to inject USP water to open the bladder.(optional depending on the cystoscope to be use. If the cystoscope has a separate water irrigation channel.

Study Objectives

Primary: to evaluate the safety of PDT employing TLD1433 and controlled uniform laser light (TLC-3200 System)

Secondary: to evaluate the pharmacokinetics (PK) of TLD1433

Exploratory: to evaluate the efficacy of PDT employing TLD1433 and controlled uniform laser light (TLC-3200 System)

Phase Ib: Summary of Adverse Events

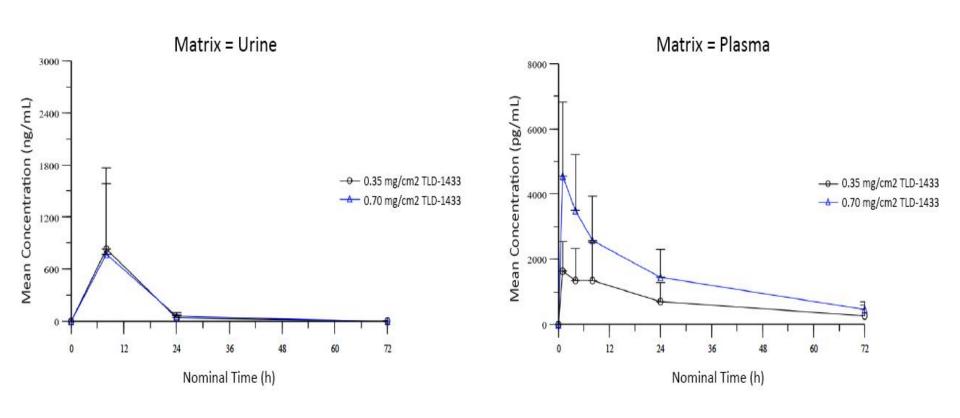
Adverse Event ("AE") Summary	Number of AEs (Description)	AE Grade
Severe, Life threatening or disabling, Death	0	3,4,5
Adverse Events	(Pain (eye, pelvic, low back, joint, right flank), urge incontinence, diarrhea, constipation, fatigue, urinary frequency / urgency, bladder spasm, hematuria, nocturia, dry skin)	1 to 2
Adverse Events (Not Completely Resolved within 180 Days)	(Urge Incontinence*, Urinary Frequency*, Dry Skin*) *Pre-existing condition *Not study drug related	2

Severity of Adverse Events

- Grade 1 = Mild
- Grade 2 = Moderate
- Grade 3 = Severe
- Grade 4 = Life-threatening or disabling
- Grade 5 = Death



PK Analysis of TLD-1433 (6 patients)



Data points represent average TLD-1433 concentrations per ml of samples (mean +/-standard deviations).

TLD-1433 is removed from the body via urine within 24 hours and via plasma within 72 hours.

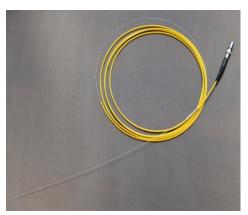
Phase Ib: Exploratory - Efficacy²

Treatment Dose	Half-Dose 0.35mg/cm ²		Ful	l-Dose 0.70mg/c	m²	
Subject	001-001 (Patient 1)	001-002 (Patient 2)	001-003 (Patient 3)	001-004 (Patient 4)	001-005 (Patient 5)	001-006 (Patient 6)
Safety	No dise	ase progression (1	80 days)	66% Complete Response (360 days)		
Pathology	T1 HG w/ Cis (180 days)	T1 HG w/Cis (180 days)	Cis (180 days)	T1 HG w/ Cis Unrelated to Treatment (138 days)	No clinical evidence of bladder tumour (360 days)	No clinical evidence of bladder tumour (360 days)
Imaging 36	Increased lymphadenopath y Generalized bladder wall thickening, and dilation of the right greater than left ureter again seen. Again noted is an area of ureteric thickening and narrowing on the right side (180 Days)	Solid mass in the right renal pelvis has enlarged in the interval (180 Days)	No definite evidence for abdominal pelvic disease. Plaque- like areas of calcification in the posterior bladder wall grossly similar (180 Days)	urothelial malignancy	pelvis.	No evidence of metastatic disease in the abdomen or pelvis. 360 Day Cystoscopy: No clinical evidence of bladder tumour (360 Days)

PHOTODYNAMIC THERAPY (PDT) TRIAL TLD-1433 THERALASE PHASE II TRIAL

Emitter



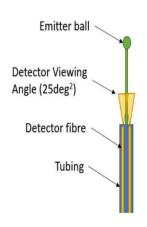


 Optimized UV epoxy for Spherical Diffuser (More secure attachment to Emitter) (Allows up to 4W operation)



Detector





- More accurate, repeatable and reliable optical detection
- Optical detection drives Emitter warning screens
- 2 mm diameter fits through working channel of flexible cystoscope
- More robust and easier to use in OR

More easily sterilized





Phase II NMIBC Clinical Study

Phase II NMIBC Clinical Study

Multi-site (Approximately 20 sites), single-arm, open-label study

100 patients to be evaluated at Therapeutic Dose (0.70 mg/cm²⁾

Key Inclusion Criteria

Have histologically confirmed NMIBC CIS with or without resected papillary disease (Ta, T1)

(HG)

Patients with Ta or T1
disease
have undergone
complete TURBT

Considered BCG-Unresponsive

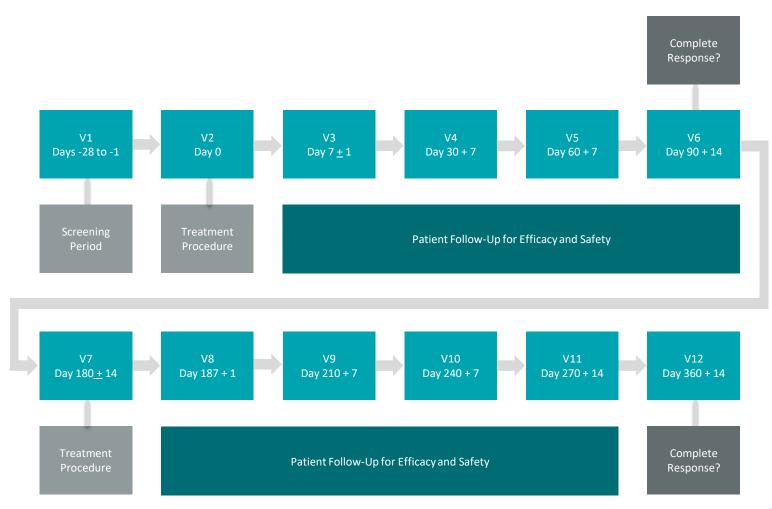
Cancer states that,

"In BCG-unresponsive NMIBC, a single-arm clinical trial with complete response rate and duration of response as the primary endpoint can provide primary evidence of

 $\frac{https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM529600.pdf$



Phase II NMIBC Clinical Study Design





Outcome Measures

Primary Outcome Measure

Evaluated by:

Complete Response ("CR") at 90 days

and

Duration of CR at 360 days

CR defined as:

- -ve cystoscopy & -ve urine cytology
- +ve cystoscopy with biopsy-proven benign or low-grade NMIBC and -ve cytology
- -ve cystoscopy with malignant urine cytology if cancer is found in the upper tract or prostatic urethra and random bladder biopsies are -ve.

Secondary Outcome Measure

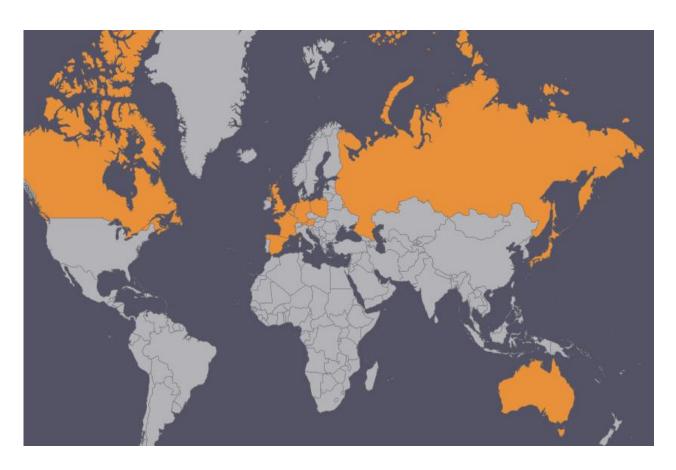
The incidence and severity of Adverse Events ("AEs") Grade 4 or higher not resolved in 360 days.

POTOMAC TRIAL DURVALUMAB ASTRA ZENICA PHASE III

Geographical Distribution



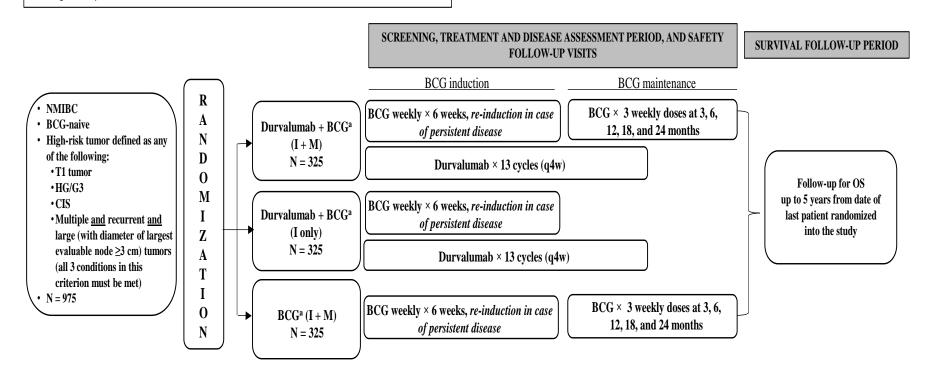
12 Countries - 115 Sites 975 Randomized subjects – 25% SF rate



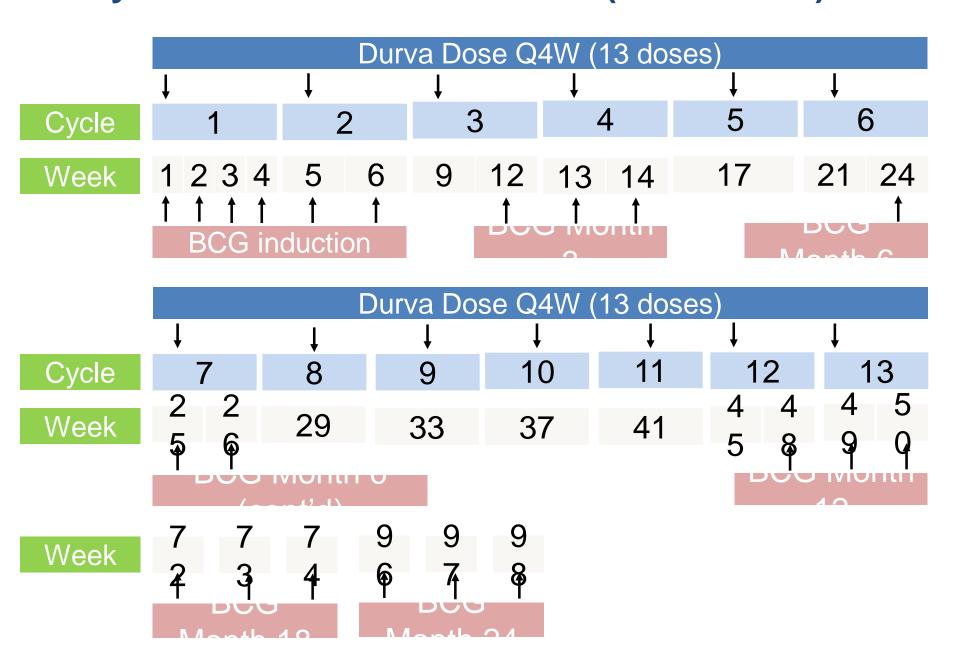
Study Design: BCG naïve patients!!!

Stratified randomization factors:

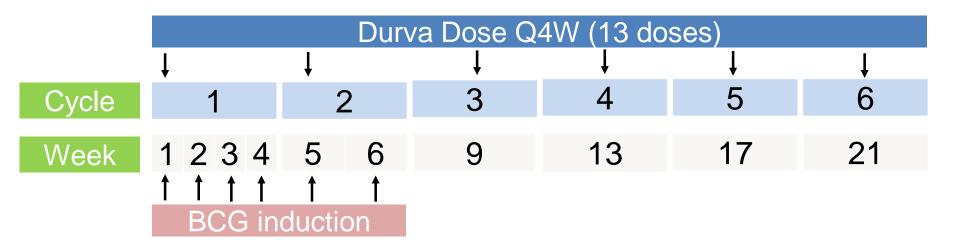
- Higher risk papillary disease (yes vs no) (meeting at least one of the following criteria will be "yes")
 -T1G3, OR
 - -Multiple AND recurrent AND large (with diameter of largest evaluable node ≥3 cm) tumors
- 2. CIS (yes vs no)



Study Treatment - Durva + BCG (ind + maint)

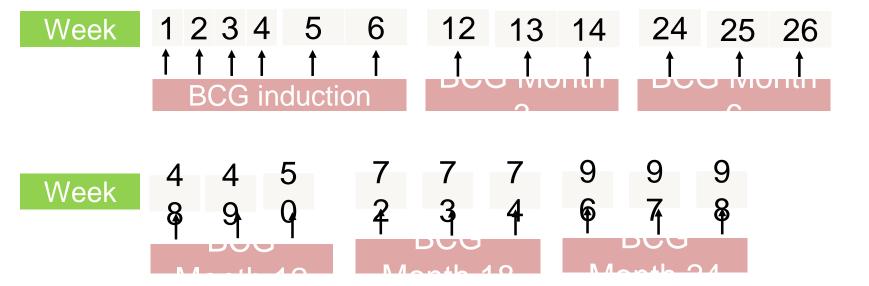


Study Treatment – Durva + BCG (ind only)



	Durva Dose Q4W (13 doses)						
	+	↓	↓	1		Ţ	1
Cycle	7	8	9	10	11	12	13
Week	25	29	33	37	41	45	49

Study Treatment – BCG (ind + maint)



Study Treatments

Durvalumab 1500 mg IV Q4W for 13 cycles

- Treatment until confirmed disease progression, unacceptable toxicity, or any discontinuation criterion are met
- Patients whose weight falls to ≤30 kg must receive weight-based dosing for durvalumab (as applicable) – equivalent to 20mg/kg of durvalumab until the weight improves to >30 kg, at which point the patient should resume taking the fixed dosing of durvalumab (1500mg)

BCG

 1 vial of OncoTICE BCG or approved equivalent dose of local standard BCG strain administered intravesically weekly for 6 weeks (induction) and for 3 weekly doses at 3, 6, 12, 18, and 24 months (maintenance)

*Recurrence of low/intermediate risk disease post BCG induction should be removed by performing TURBT and the study treatment can continue

In order to minimize confounding of OS, patients randomized to BCG alone <u>will not</u> <u>be allowed</u> to cross over to the other treatment groups (BCG in combination with durvalumab)

Durvalumab and BCG may be administered on the same day; durvalumab would be administered first, followed by BCG

KEYNOTE 676
PEMBROLIZUMAB
MERCK
PHASE III

Trial Design

Study diagram

Key Eligibility Criteria

- Urothelial carcinoma with predominant TCC histology
- HR NMIBC: recurrent T1, high-grade Ta and/or CIS
- Persistent or recurrent HR NMIBC after adequate BCG induction

Arm 1

BCG +
Pembrolizumab

Randomize 1:1

Stratified by:

CIS or non-CIS histology PD-L1 CPS ≥ 10 or <10

NMIBC Disease History

- Persistent or recurrent at 0 to ≤ 6 months
- Recurrent at >6 to ≤ 12 months
- Recurrent at >12 to ≤ 24 months

Arm 2

BCG

Monotherapy

Disease Assessments

Every 12 weeks for years 1-2 Every 24 weeks for years 3-5

With cystoscopy, urine cytology and biopsies (as appl.)

CTU every 18 months through

Treatment Discontinuation

Post-Treatment

- Follow-up:
- Safetv
- Survival

Key Endpoints

CR rate in participants with CIS EFS in all Participants

N: 550

Approx. 182 without CIS (capped)

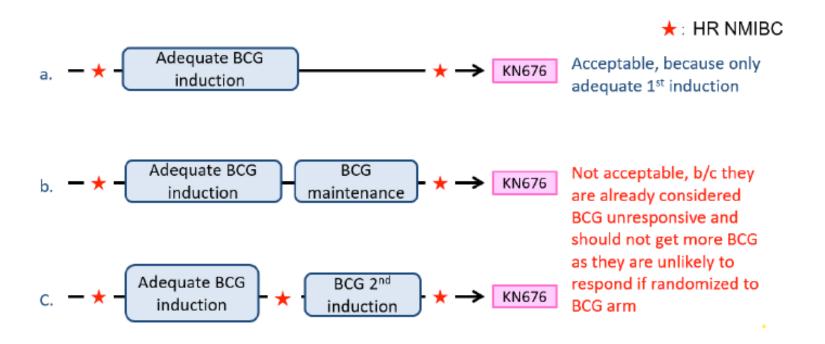
Approx. 368 with CIS





Inclusion

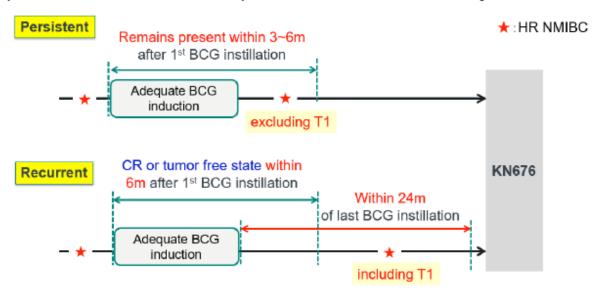
- Failed Adequate Induction BCG: 5 or 6 cycles all given within 10 weeks
- Cannot have received maintenance BCG



Persistent of Recurrent Disease

Following BCG induction therapy, must have persistent or recurrent HR NMIBC defined as

- High Risk NMIBC includes T1, high grade Ta and/or CIS
- <u>Persistent</u>: remains present within 3 months (-2 weeks) to 6 months (+4 weeks) after start of BCG induction (NOTE: persistent T1 not allowed), or
- <u>Recurrent:</u> reappearance of high risk NMIBC after achieving a CR or tumor-free state within 6 months (+ 4 weeks) after start of BCG induction. The recurrence must be within 24 months of last exposure to BCG [with up to an additional 56 days allowed to account for delays in the 24 month assessment]



CHECKMATE-9UT TRIAL
NIVOLUMAB + BMS-986205
BRISTOL-MYERS SQUIBB
PHASE II

A Phase 2, Randomized, Open-label Study of Nivolumab or Nivolumab/BMS-986205 Alone or Combined with Intravesical BCG in Participants with BCG-Unresponsive, High-Risk,
Non-Muscle Invasive Bladder Cancer (CA2099UT/CheckMate 9UT)

Sponsored by: BMS





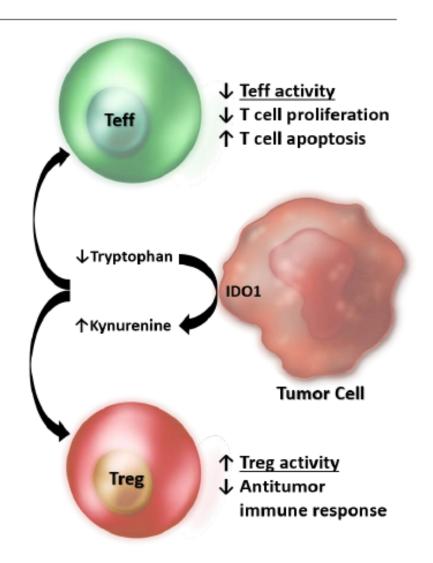
Trial Overview

- Global Phase 2b study, open-label, randomized
- Investigative agents:
 - BMS-986205 (IDO1 inhibitor) indolamine 2,3 dioxygenase
 1 inhibitor
 - Nivolumab (anti-PD1)
 - BCG
- Population: BCG unresponsive high-risk NMIBC
- Global Target: 436 randomized
- Local Target: 4 randomized
- Target time to completion: 5 years



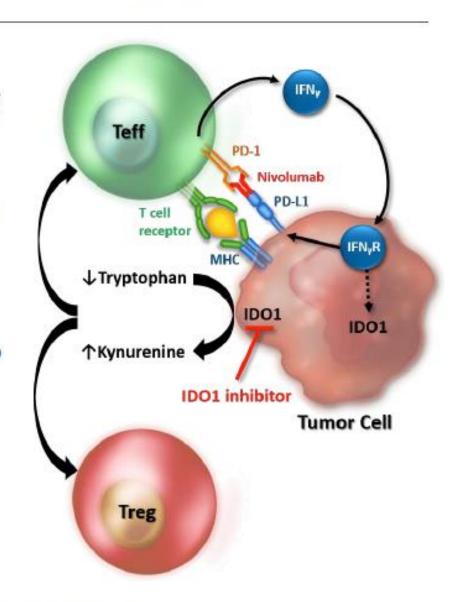
IDO1i in the Tumor Microenvironment

- IDO1 enzyme inhibits T-cell function through local depletion of tryptophan and production of immunosuppressive kynurenine
- High IDO1 expression is associated with a decrease in immune cell tumor infiltration and an increase in regulatory T cells (Tregs)
- IDO1 expression in tumors has also been associated with poor prognosis, increased progression, and reduced survival



Rationale for IDO1i + Anti-PD-1 Combination

- IDO1 enzyme inhibits T-cell function through local depletion of tryptophan and production of immunosuppressive kynurenine
- High IDO1 expression is associated with a decrease in immune cell tumor infiltration and an increase in regulatory T cells (Tregs)
- IDO1 expression in tumors has also been associated with poor prognosis, increased progression, and reduced survival
- Anti-PD-1 treatment upregulates IDO1 expression in patients

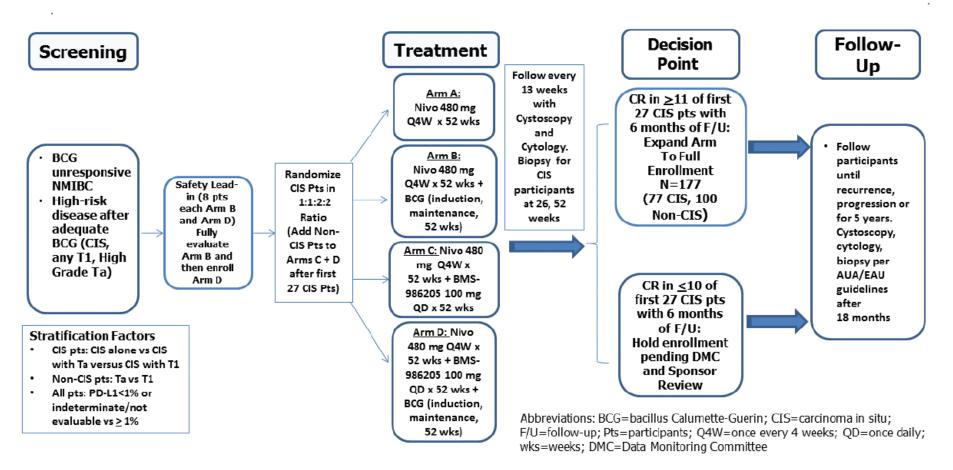


Trial Design

- <u>Treatment arms</u>:
 - Arm A: Nivolumab only
 - Arm B: Nivolumab + BCG (safety lead-in arm 1)
 - Arm C: Nivolumab + BMS
 - Arm D: Nivolumab + BMS + BCG (safety lead-in arm 2)
- Safety Lead-In > Randomization Phase 1 > Phase 2 > Phase 3
- Current safety lead-in ending May 15, 2019
- **Phase 1**: Arms A + B + C open (1:1:2)
- Phase 2: CIS only (A + B + C + D; 1:1:2:2), Non-CIS (C + D; 1:1)
- Phase 3: Arms TBD by previous phases



Study Schematic





Study Treatment

- Nivolumab: 480mg, Q4W x 52 weeks
- BMS-986205: 100mg, QD x 52 weeks
- BCG: Induction, maintenance x 52 weeks
- Required assessments:
 - Cystoscopy: Every 13 weeks
 - Cytology (via bladder wash): Every 13 weeks
 - CIS patients: Random BBx at week 26 + 52
- Otherwise per standard clinical practice



Trial Objectives

Primary:

 Estimate complete response rate in CIS patients, event free survival for non-CIS patients per central lab evaluation

Secondary:

- Progression free survival
- Safety + tolerability of Nivo or Nivo + BMS alone or in combination with BCG



Updates

- Status of each trial
 - Keynote 057: recruiting non-CIS patients BCG unresponsive
 - VISTA: closed to accrual
 - Theralase I: closed to accrual
 - Theralase II: recruiting CIS patients
 - POTOMAC: recruiting BCG naïve high risk patients
 - KN 676: recruiting high risk patients having failed induction BCG
 - CheckMate-9UT: recruiting CIS patients BCG unresponsive

Updates

- Status of each trial
 - Keynote 057: recruiting non-CIS patients BCG unresponsive
 - VISTA: closed to accrual
 - Theralase I: closed to accrual
 - Theralase II: recruiting CIS patients
 - POTOMAC: recruiting BCG naïve high risk patients
 - KN 676: recruiting high risk patients having failed induction BCG
 - CheckMate-9UT: recruiting CIS patients BCG unresponsive

QUESTIONS?