UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (date of earliest event reported): March 15, 2016

Heat Biologics, Inc.

(Exact name of registrant as specified in charter)

Delaware

(State or other jurisdiction of incorporation)

001-35994 (Commission File Number) 26-2844103

(IRS Employer Identification No.)

801 Capitola Drive

Durham, NC 27713 (Address of principal executive offices and zip code)

(919) 240-7133

(Registrant's telephone number including area code)

N/A

(Former Name and Former Address)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12(b) under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01. - Regulation FD Disclosure

Heat Biologics, Inc. (the "Company") will be making several investor presentations over the next few weeks. In connection with the presentations, the Company intends to discuss the updated slide presentation which reflects the current focus of our clinical programs furnished as Exhibit 99.1 hereto, which is incorporated herein by reference.

The slide presentation attached as Exhibit 99.1 to this Report includes "safe harbor" language pursuant to the Private Securities Litigation Reform Act of 1995, as amended, indicating that certain statements contained in the slide presentation or in the press release are "forward-looking" rather than historical.

The information included in this Item 7.01 and in Exhibit 99.1 shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing. The Company undertakes no duty or obligation to update or revise information included in this Report or any of the Exhibits.

Item 9.01 - Financial Statements and Exhibits.

(d) Exhibits.

The following exhibit is being filed as part of this Report.

Exhibit Number	Description	

<u>99.1</u> Presentation materials to be provided at Heat Biologics, Inc.'s presentations

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: March 15, 2016

HEAT BIOLOGICS, INC.

By: Name: Title:

/s/ Jeffrey Wolf Jeffrey Wolf Chairman, President and Chief Executive Officer



Forward Looking Statements

This presentation includes statements that are, or may be deemed, "forward-looking statements." In some cases, these forward-looking statements can be identified by the use of forward-looking terminology, including the terms "believes," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "will," "should," "approximately" or, in each case, their negative or other variations thereon or comparable terminology, although not all forward-looking statements regarding our intentions, beliefs, projections, outlook, analyses or current expectations concerning, among other things, our ongoing and planned discovery and development of drugs targeting cancer, the strength and breadth of our intellectual property, our ongoing and planned preclinical studies and clinical trials, the timing of and our ability to make regulatory filings and obtain and maintain regulatory approvals for our product candidates, our ability to partner our product development, the degree of clinical utility of our products, particularly in specific patient populations, expectations regarding clinical trial data, our results of operations, financial condition, liquidity, prospects, growth and strategies, the length of time that we will be able to continue to fund our operating expenses and capital expenditures, our expected financing needs and sources of financing, the industry in which we operate and the trends that may affect the industry or us.

By their nature, forward-looking statements involve risks and uncertainties because they relate to events, competitive dynamics, and healthcare, regulatory and scientific developments and depend on the economic circumstances that may or may not occur in the future or may occur on longer or shorter timelines than anticipated. Although we believe that we have a reasonable basis for each forward-looking statement contained in this presentation, we caution you that forward-looking statements are not guarantees of future performance and that our actual results of operations, financial condition and liquidity, and the development of the industry in which we operate may differ materially from the forward-looking statements contained in this presentation as a result of, among other factors, the factors referenced in the "Risk Factors" section of our Annual Report on Form 10-K for the year ended December 31, 2015 and our quarterly report on Form 10-Q for the subsequent quarters (collectively, our "SEC Filings"). In addition, even if our results of operations, financial condition and liquidity, and the development of the industry in which we operate are consistent with the forward-looking statements contained in this presentation, they may not be predictive of results or developments in future periods. Any forward-looking statements that we make in this presentation speak only as of the date of such statement, and we undertake no obligation to update such statements to reflect events or circumstances after the date of this presentation, except as required by law.

You should read carefully the factors described in the "Risk Factors" sections of our SEC Filings to better understand the risks and uncertainties inherent in our business.





Platform technologies designed to activate CD8+ T cells against multiple tumor antigens

Clinical evidence of mechanism of action

Increased CD8+ T cells in tumors associated with clinical response

Favorable safety profile to-date

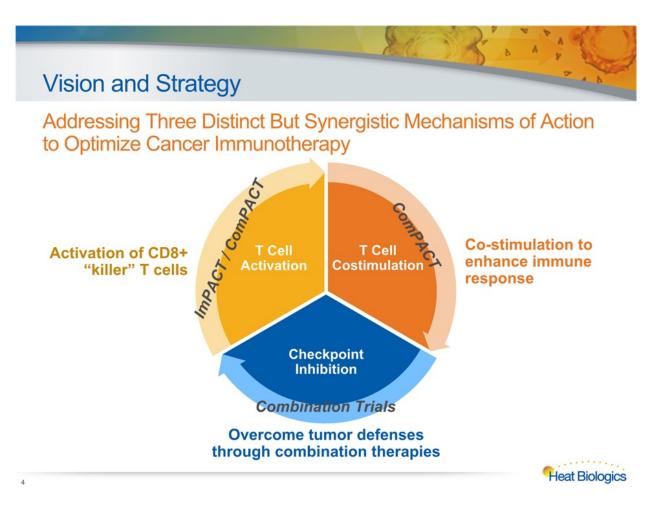
Developing first new immunotherapy in non-muscle invasive bladder cancer (NMIBC)

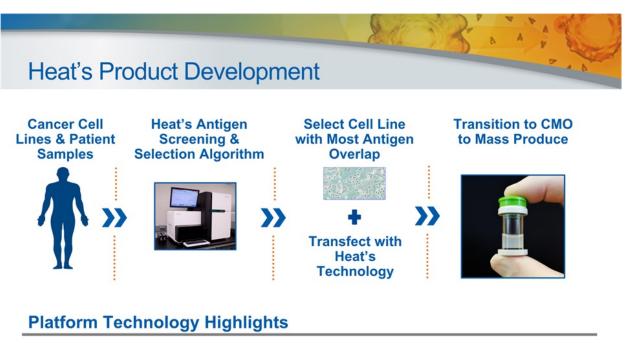
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Conducting first vaccine + PD-1 checkpoint inhibitor combo trial in nonsmall cell lung cancer (NSCLC)

Immuno-oncology company developing novel therapies to activate a patient's immune system against cancer





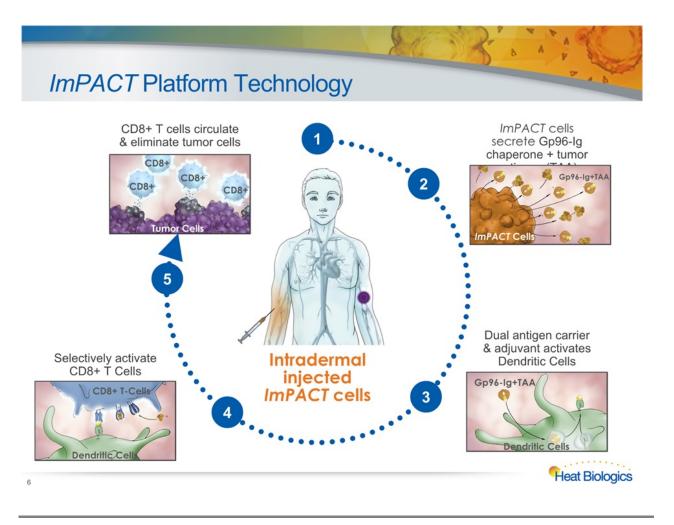


Applies to multiple cancers

5

- Designed to activate killer T cells
- Targets multiple tumor antigens
- Enables scalable, low cost manufacturing relative to autologous cell therapies









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>1,000 doses administered in approximately 200 patients

7 1. NMIBC is non-muscle invasive bladder cancer; 2. NSCLC is non-small cell lung cancer



ImPACT

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_	Product	Combination	Indication	Preclinical	Mfg	Phase 1	Phase 2	Phase 3
Bladder	HS-410 (vesigenurtacel-L)	BCG; Monotherapy	NMIBC	Combination A	rms	Monotherap	by Arm	
Lung	HS-110 (viagenpumatucel-L)	nivolumab and other checkpoint inhibitors	NSCLC			\rightarrow		
			NSCLC					

HS-410 received fast track designation from U.S. FDA



Bladder Cancer – NMIBC Opportunity

Large Market

- Over 500,000 bladder cancer patients in U.S.¹
- 74,000+ new cases and 16,000 deaths per year in U.S.¹

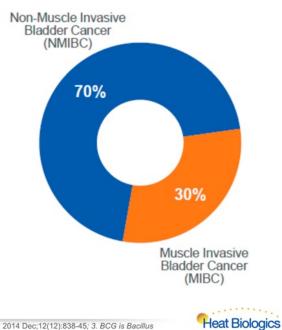
High Unmet Medical Need

- No new NMIBC treatments in 25 years
- Prevent progression to MIBC
- Priority for FDA
- Highest lifetime treatment cost per patient of all cancers (\$96,000 to \$187,000 per individual per year in U.S.)²

Ideal Setting

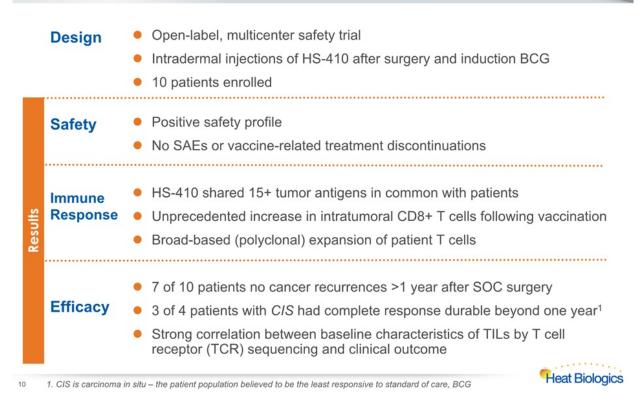
- Minimal residual disease
- Responsiveness to immunotherapy (BCG)³

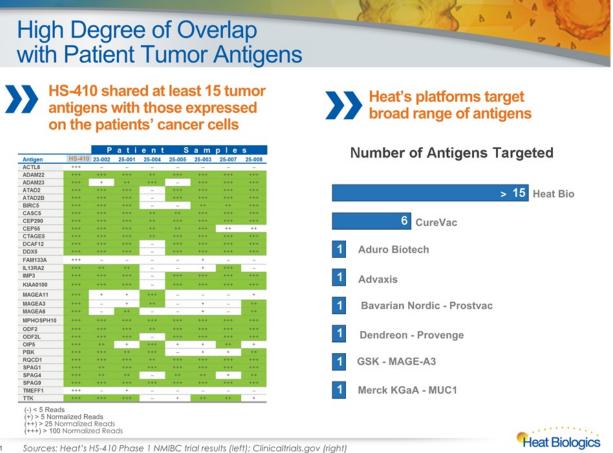
Bladder Cancer



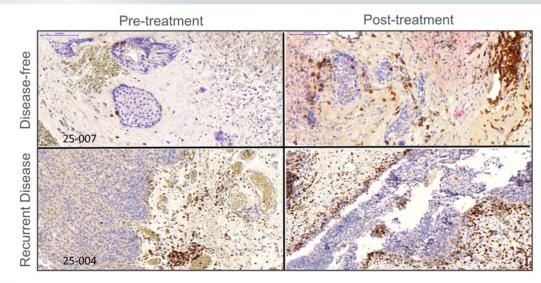
1. American Cancer Society 2015 Statistics; 2. Park JC, et al. Clin Adv Hematol Oncol. 2014 Dec;12(12):838-45; 3. BCG is Bacillus Calmette-Guérin

HS-410 Phase 1 NMIBC Trial Overview





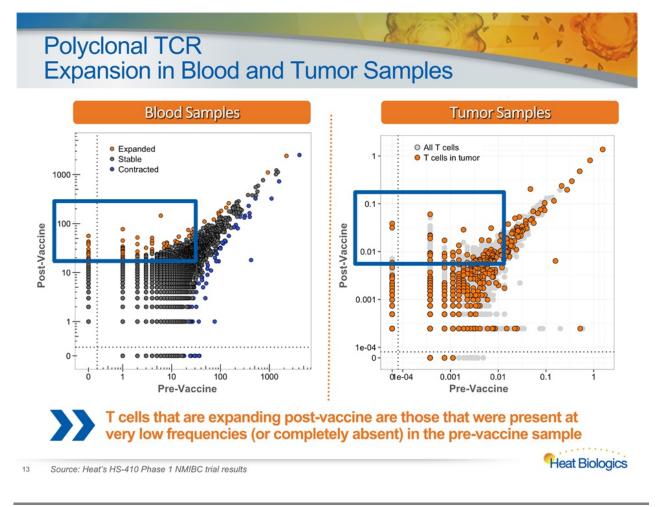
Post-treatment Induction of CD8+ TIL

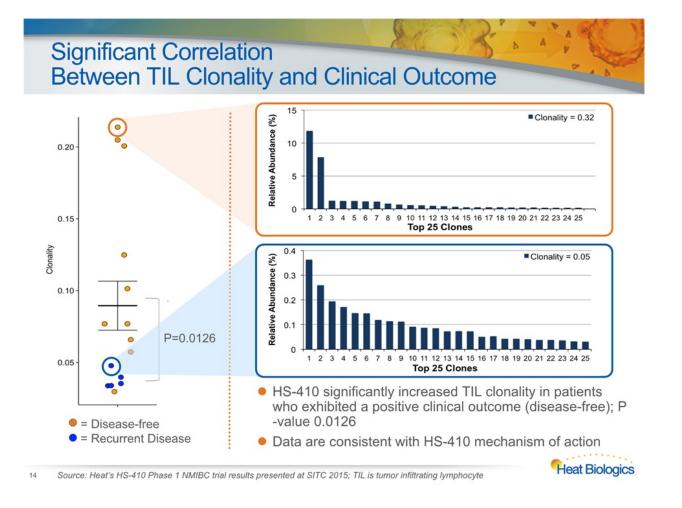


- Before treatment there are few CD8+ (red) TIL in the disease-free patient (25-007, upper left), whereas TIL are abundant in the recurring patient (25-004, lower left)
- Following treatment with HS-410, there is robust induction of TIL in the disease-free patient, with moderate induction in the recurring patient

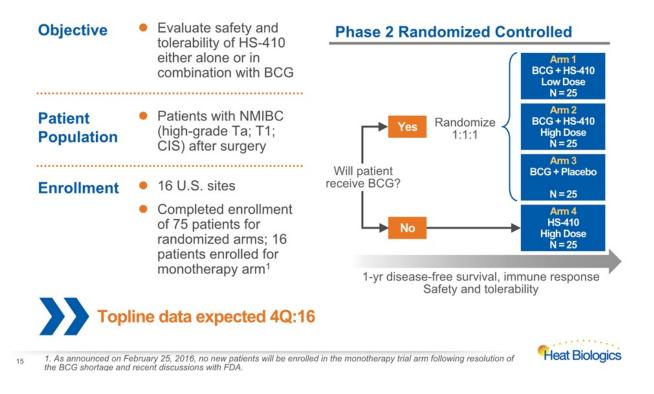
12 Source: Heat's HS-410 Phase 1 NMIBC trial results presented at SITC 2015







HS-410 Ph 2 NMIBC Trial Overview





3-mo recurrence rate (RR) – combo arms still blinded

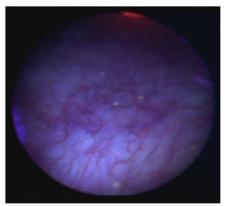
Population	Historical RR ¹	Monotherapy RR
High-risk papillary only	~20%	1/6 (17%)
CIS	~50%	0/1 (0%)
Intermediate risk	UNK (~<20%)	N/A
Composite	~30%	1/7 (14%)

- No recurrences to date beyond six months in either the Ph 1 or Ph 2 monotherapy trials
- Six different investigators performing cystoscopies have commented:
 - "The bladders look different...bumpy...nodular..."

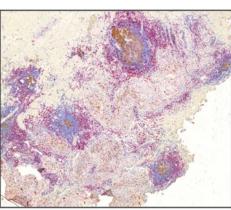
16 Source: 1) SWOG 8507 (Lamm 2000 J.Urol), EORTC 30906 (de Reijke 2005 J. Urol), EORTC 30962 (Oddens 2013 Eur Urol)



HS-410 Ph 2 NMIBC Monotherapy 3-Month Interim Data



Blue-light cystoscopy from patient treated with HS-410



Tumor biopsy from patient treated with HS-410

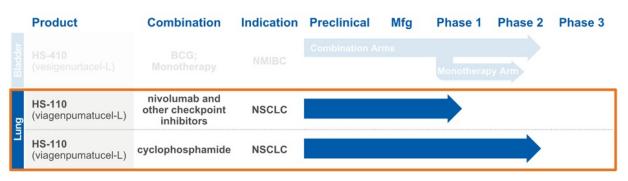
 Images of the bladder (above) showed changes that resemble lymphoid (T cell rich) structures, which we believe indicates that HS-410 leads to a localized immune response within the bladder

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17 Source: Heat's HS-410 Phase 2 NMIBC interim monotherapy trial results announced January 26, 2016
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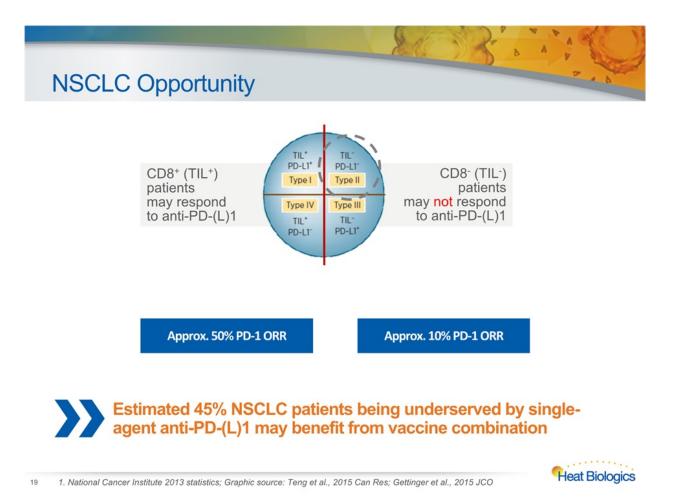


ImPACT



Heat Biologics

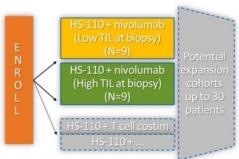
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HS-110 Ph 1b NSCLC "DURGA" Trial Overview

Objective	 Evaluate safety and tolerability of HS-110 + a PD-1 checkpoint inhibitor 	One Year Top Expected 4Q
Patient Population	 Potential to expand each cohort up to 30 patients¹ 	E N
Secondary Endpoints	 Immune response, overall response rate, overall survival and progression-free survival 	
Enrollment	 5 – 10 U.S. sites Partnership with Yale Cancer Center on TIL analysis 	HS-110 we nivolumab i.v.

pline Data 2:16



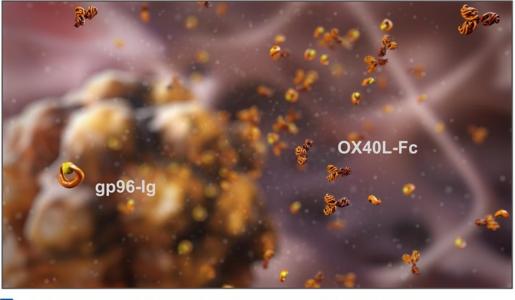
veekly intradermally for 18 weeks; v. every other week until progression

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1. Our immediate intent is to advance the eight patients currently enrolled in the Phase 1b clinical trial and report topline data for these patients in the fourth quarter of 2016 20

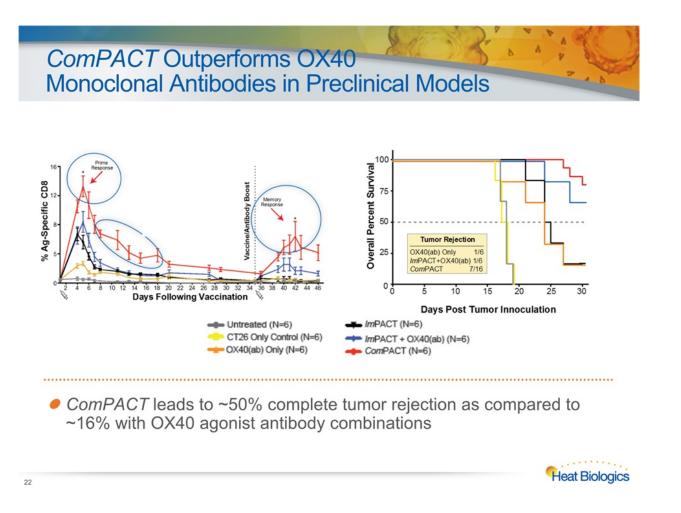
ComPACT Platform Technology

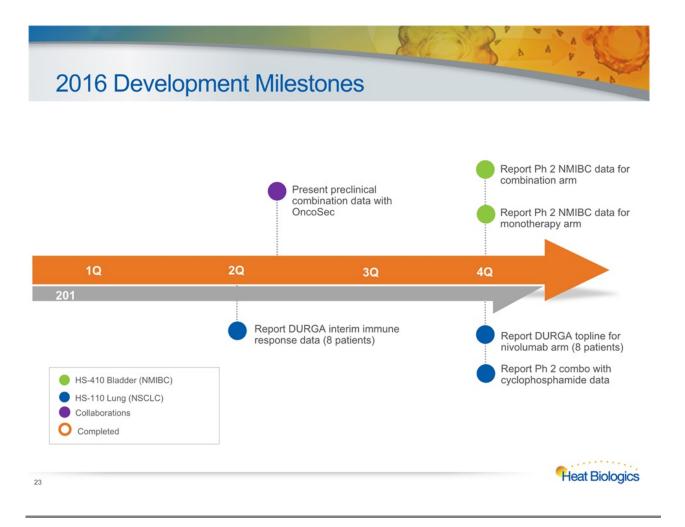
21



The first potential dual-acting immunotherapy designed to deliver T cell activation and costimulation in a single product – combination therapy without additive costs







Summary: Value Proposition

Highlights:

- \checkmark Clinical evidence of mechanism of action
- ✓ Favorable safety profile to-date
- √ Pan-antigen, T cell activation
- ✓ Applicable to multiple cancers
- √ Ready-to-use; scalable, low cost manufacturing
- ✓ Retain worldwide commercialization rights

Upcoming Milestones:

- Randomized Ph 2 HS-410 bladder data
- Monotherapy Ph 2 HS-410 bladder data
- □ Ph 1b HS-110 + PD-1 checkpoint inhibitor combination data (8 patients)
- Ph 2 HS-110 + cyclophosphamide data

24



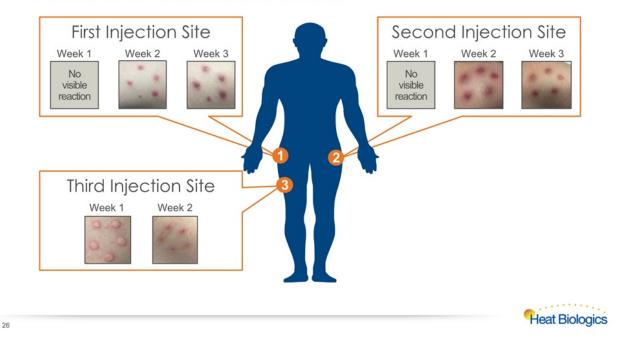




APPENDIX

HS-410 Injection Site Reactions

Kinetics Follow Delayed-type Hypersensitivity Reaction; Consistent with Mechanism of Action



Clinical and Immune Response

Disease Characteristics and Recurrence Status

Patient	T- Class	CIS	Grade	Disease Status	Induction BCG	Vaccine Doses	Maintenance BCG	3-month Cysto	6-month Cysto	Recurrence Status
12-001	T1	No	High	Newly Diagnosed	5	15	4			No
23-001	T1	Yes	High	Newly Diagnosed	6	15	3			No
23-002	T1	No	High	Newly Diagnosed	6	15	6		TIS	Yes
25-001	ТА	No	High	Recurrent	3	6	0	TIS High		Yes
25-002	T1	Yes	High	Newly Diagnosed	3	15	3			No
25-003	T1	No	High	Newly Diagnosed	6	15	0			No
25-004	T1	Yes	High	Newly Diagnosed	5	12	0	Ta high	T1 high CIS	Yes
25-005	T1	No	High	Newly Diagnosed	6	15	2	Ta low		No
25-007	T1	No	High	Newly Diagnosed	6	15	0			No
25-008	TIS	Yes	High	Newly Diagnosed	6	15	0			No

 7 out of 10 patients had no documented recurrence of cancer >1 year after standard of care surgery

• 3 out of 4 patients with *carcinoma in situ* (CIS), the patient population least responsive to standard of care BCG, did not recur

27 Source: Heat's HS-410 Phase 1 NMIBC trial results presented at SITC 2015







THANK YOU