



Forward Looking Statements and Disclaimers

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The forward-looking statements included in this presentation, involve known and unknown risks that relate to future events or our future financial performance and the actual results could differ materially from those discussed in this presentation. Some of those forward-looking statements include: our commercialized and pipeline products and technologies; the timing and conduct of our clinical trials, and the associated financial, clinical and regulatory burdens; other parties' abilities to conduct clinical trials involving Cytori Cell Therapy; the various medical indications and markets that may be addressed by Cytori Cell Therapy; the potential effectiveness of Cytori Cell Therapy, including clinical outcomes; our regulatory, reimbursement and commercial strategies and pathways; potential costs and other adverse effects of diseases targeted for treatment by our products, and; anticipated future funding and contract revenues. Some risks and uncertainties related to such forward looking statements include risks and uncertainties regarding the funding, conduct and completion of our clinical trials and other parties' clinical trials involving Cytori Cell therapy, uncertain clinical outcomes, regulatory uncertainties, unfavorable reimbursement outcomes, inability to access sufficient capital on acceptable terms (including inability to fund, or find third party sources to fund, our proposed clinical trials or continued development of our technologies), failure to maintain our substantially reduced cash burn; our partners' failure to launch products in China and other markets where we currently forecast sales; our abilities to service, pay and/or refinance our corporate debt; availability of future government funding and changes in government priorities; the U.S. federal government's ability to reduce, modify or terminate the BARDA contract if it determines it is in its best interests to do so, potential performance issues with our products and technologies, and other risks and uncertainties described under the "Risk Factors" section in our Securities and Exchange Commission Filings on Form 10-K and Form 10-Q. These risks and uncertainties may cause our actual results to differ materially from those discussed in this presentation. We advise reading our most recent annual report on Form 10-K and quarterly report on Form 10-Q filed with the United States Securities and Exchange Commission for a more detailed description of these risks.

The forward-looking statements contained in this presentation represent our estimates and assumptions only as of the date of this presentation and we undertake no duty or obligation to update or revise publicly any forward-looking statements contained in this presentation as a result of new information, future events or changes in our expectations.

Disclaimers

Caution: Within the U.S., the Celution System is an investigational device limited by U.S. law to investigational use.

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Summary

- Unique cell therapy platform- clear commercial model, late-stage lead indication and growing development pipeline
- Completed corporate restructuring- better positioned to achieve key milestones 2016
- Substantial clinical data- indicates Cytori Cell Therapy provides symptomatic benefit, improved quality of life and may impact disease progression
- Scleroderma product introduction- 2016 EU managed access program and anticipated US product launch 2018
- Product & contract revenue growth- increasingly offset burn through 2018

Cytori Cell Therapy: Late-Stage Clinical Pipeline

Therapeutic Agent	Pre-Clinical	Phase I/II	Phase III	М	arket (Estimate)	
Scleroderma A	ssociated Hand Dysfunct	ion				
ECCS-50			Enrolling		>\$1B	
ECCS-50			Enrolling ¹		>\$500M	
Knee Osteoart	hritis					
ECCO-50	Enrollmen	at Complete			>\$3B	
Urinary Incont	inence					
ECCI-50			Enrolling ²		>\$75M	
Cutaneous Rad	liation & Thermal Injury					
DCCT-10	Preclinical ³				>\$50M	

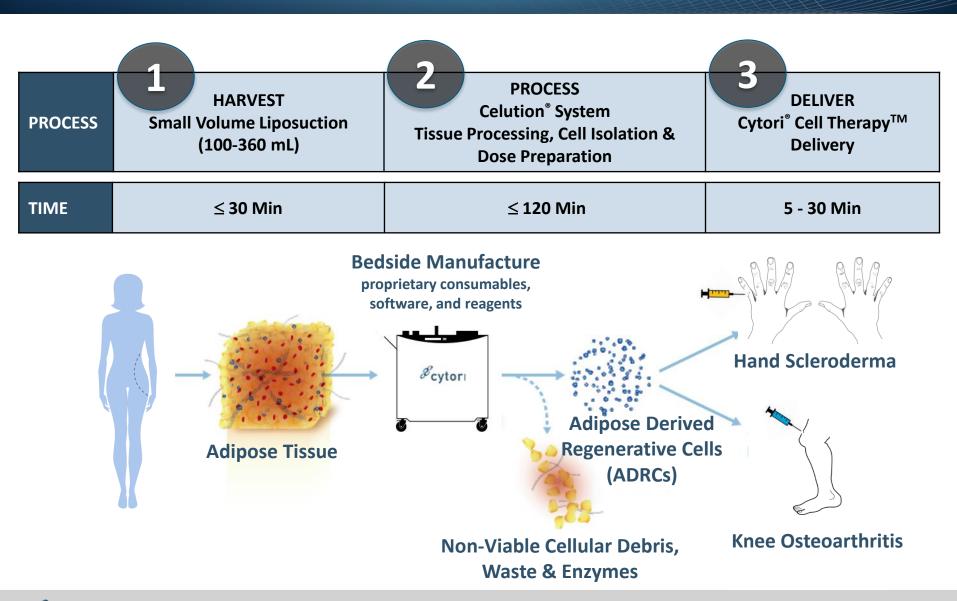
¹ Cytori-funded, Investigator-initiated trial

³ Funded by BARDA (US Govt.)



² Japan Govt Sponsorship

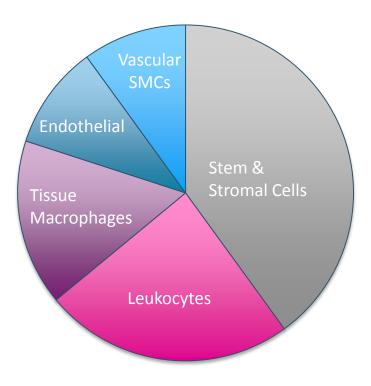
Cytori 3-Step Bedside Process





Cytori Cell Therapy: Cellular Composition

A clinical grade, heterogeneous cell population highly-enriched for adiposederived stem, stromal, vascular, and immunoregulatory cell types

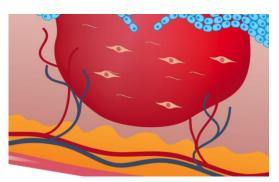


- Cells sourced from autologous adipose tissue
- Therapeutic manufactured in bedside GMP process
- Process yields a diverse, unique cell population
- All consumables are clinical grade

Cytori Cell Therapy: Mechanism of Action

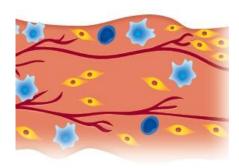
Cytori Cell Therapy beneficially modulates multiple key pathologic processes leading to anticipated sustained reduction in pain and disability and improved quality of life

Angiogenesis/Vasculopathy



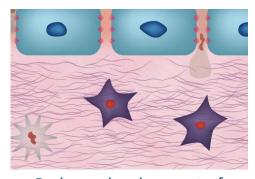
- Promotes angiogenesis
- Normalization of vessel architecture
- Improved vasomotor function¹⁻⁵

Inflammation



- Modulates expression of proand anti-inflammatory factors
- Modulates the function of proand anti-inflammatory cells^{3, 6-9,}

Fibrosis/Wound Remodeling



- Reduces development of fibrosis
- Remodels existing fibrosis^{2,10,11}

^{1.} Foubert et al (2015); 2. Koh et al (2011); 3. Premaratne (2011); 4. Morris et al (2015); 5. Eguchi et al (2015); 6. Feng et al (2010); 7. Hao et al (2014); 8. Dong et al (2013); 9. Data on file (Cytori); 10. Serratrice et al (2014); 11. Data on file (Cytori)



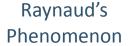
Lead Indication: Scleroderma

Scleroderma

Scleroderma or Systemic Sclerosis

- Rare autoimmune condition
- Affects Women: Men, 4:1
- US Prevalence: 50,000 patients
- >90% of patients have hand disability
 - Fibrosis, pain, and edema result in diminished mobility and hand function even with standard medical care
 - Severe vasomotor symptoms







Ulceration and Edema

Pathophysiology

Endothelial Dysfunction

Vascular Damage Chronic Inflammation

Fibrosis

Diminished Hand Function

Ulcers & Amputation

Cytori Cell Therapy

Preclinical and in vitro studies report modulation of perivascular inflammation, improved endothelial function, and reduction of extracellular matrix (fibrosis)

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Image on left by D Niklas, https://commons.wikimedia.org/wiki/File:Raynaud-Syndrom.JPG used under CC license
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Scleroderma: Market Overview

Current Standard of Care

- No therapies approved for treatment of hand dysfunction in scleroderma patients
- Existing 1st and 2nd line treatments for treatment of Raynaud's Phenomenon or other aspects of scleroderma are often inadequate and poorly tolerated
- Existing 3rd line treatments are costly (\$30-\$100k) and often very poorly tolerated

Diagnosis

Average age: 30's-50's

1st/2nd Line Therapies

Inadequately effective or poorly tolerated in ~50% of patients^{1,2}

- Calcium channel blockers (eg: nifedipine)
- PDE5 inhibitors (eg: sildenafil)
- Topical nitrates
- Side effects: headache, dizziness, flushing, tachycardia, and edema

3rd Line Therapies

Expensive, often poorly-tolerated; doses titrated to tolerance rather than to symptom relief

- Intravenous (IV) prostaglandin (PG) analog (eg: Iloprost)
- Endothelin-1 receptor antagonist (eg: Bosentan)
- Surgical sympathectomy
- Pain due to severe ischemia may require the use of narcotic analgesics
- Immunosuppressive agents (eg: methotrexate, cyclophosphamide)

^{2.} Herrick (2008) BMJ Clin Evidence 09:1125



^{1.} Thompson et al Arthritis Rheum. 2001;44(8):1841-7

Scleroderma: Treatment Approach

- Ambulatory
- Procedure room
- Local or mild conscious sedation
- Single administration ECCS-50
- 0.5cc injection to each NVB
- No bandage



Pilot/Phase | SCLERADEC | Trial

	SCLERADEC I		
Study size	12		
Randomization	Open label		
Administration	Single administration (~4m cells/finger)		
Sites	Single site (IIS) - Marseille, France		
Endpoints	 Cochin Hand Function Scale Raynaud's Condition Score Scleroderma Health Assessment Questionnaire Pain Modified Rodnan Skin Score Capillaroscopy Adverse events Other 		
Follow-Up	24 months		
Status	Complete		

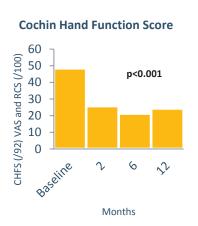


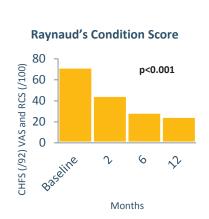
- Six and 12 month data published^{1,2}
- 24 month data to be presented at Systemic Sclerosis World Congress in Lisbon, Portugal,
 February 19, 2016
- 1. Granel et al (2014); Ann Rheum Dis Aug 11: doi: 10.1136/annrheumdis-2014-205681
- 2. Guillaume-Jugnot et al (2015) Rheumatol. 10.1093/rheumatology/kev323

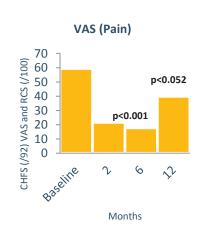


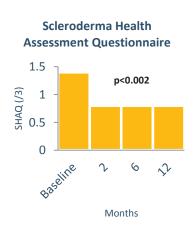
SCLERADEC I Improved PROs over 24 months

ECCS-50 Treatment led to improvement in hand function, Raynaud's phenomenon, and pain









Key Observation:

- Concordant reduction (~50%) in four key symptomatic patient reported outcomes
- Topline data show efficacy sustained to two years following a single treatment

Granel et al. Ann Rheum Dis 2014; Guillaume-Jugnot et al. Rheumatology 2015 mean ± std err



SCLERADEC I- Other Endpoints

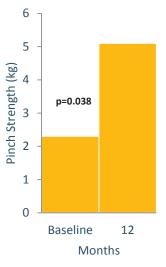
Sustained improvement in hand strength & skin stiffness

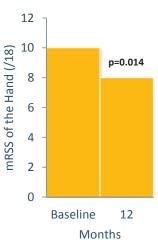


- 130% improvement in pinch strength
- 30% improvement in grip strength



23% improvement in mRSS of the hand





Granel et al. Ann Rheum Dis 2014; Guillaume-Jugnot et al. Rheumatology 2015 All data presented as mean \pm std err



SCLERADEC I- Other Endpoints

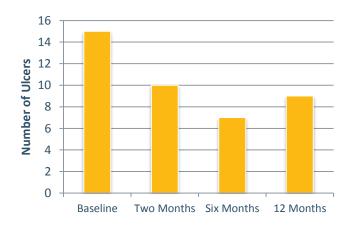
Reduction in digital ulcers, improved microvascular architecture

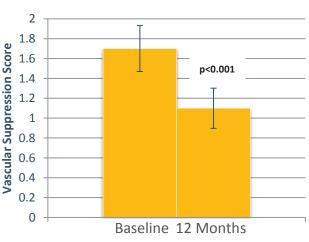


• 40% improvement in number of ulcers



• 30-35% improvement in vascular suppression score





All data presented as mean ± std err

Granel et al. Ann Rheum Dis 2014; Guillaume-Jugnot et al. Rheumatology 2015

Image at top reproduced with permission of the nonprofit International Scleroderma Network at sclero.org



Scleroderma: Ongoing Clinical Trials

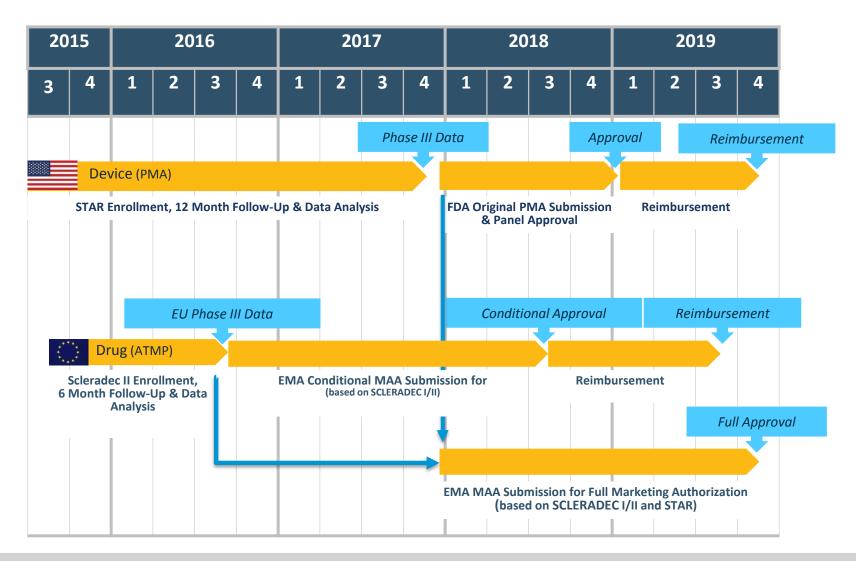
Clinical/Regulatory Strategy

- EU SCLERADEC I trial data used to support US FDA STAR trial approval
- US FDA STAR trial for US PMA approval
- US STAR trial ± SCLERADEC II to obtain EU Conditional Marketing Authorization/Normal Marketing Authorization

	STAR (Phase III)	SCLERADEC II (Phase III)		
Study size	80	40		
Randomization	1:1, active: placebo	1:1 (dose from Pilot, placebo)		
Crossover	Placebo, crossover at 48 weeks	Placebo, crossover at 24 weeks (cryo)		
Sites	Up to 20 in USA	6 France		
Primary Endpoint	Cochin Hand Function Score (CHFS) at 6 months	Cochin Hand Function Score at 3 months		
Secondary Endpoints	CHFS, Raynaud's Condition Score, Scleroderma Health Assessment Questionnaire, Pain, Modified Rodnan Skin Score, Hand Mobility in Scleroderma Test, Adverse events	CHFS, Raynaud's Condition Score, Scleroderma Health Assessment Questionnaire, Pain, Modified Rodnan Skin Score, Capillaroscopy, Adverse events		
Follow-Up	48 weeks	24 weeks		
Status	Enrolling	Enrolling		



Scleroderma: Anticipated Development Timeline





Managed Access Program Overview



Situation

- Scleroderma rare disease, orphan designation
- SCLERADEC-I results show positive ECCS-50 risk-benefit ratio
- Two pivotal trials enrolling
- Clear unmet patient needs and verified broad EMEA demand for ECCS-50

Opportunity

- Provide ECCS-50 access to patients unable to participate in clinical trials
- Fulfill company mission

Partner

- IDIS— global market leader with headquarters in UK, NJ
- 22 years of Managed Access Program experience
- > 200 total Programs executed (>74 orphan/rare disease)



Managed Access Program Objectives

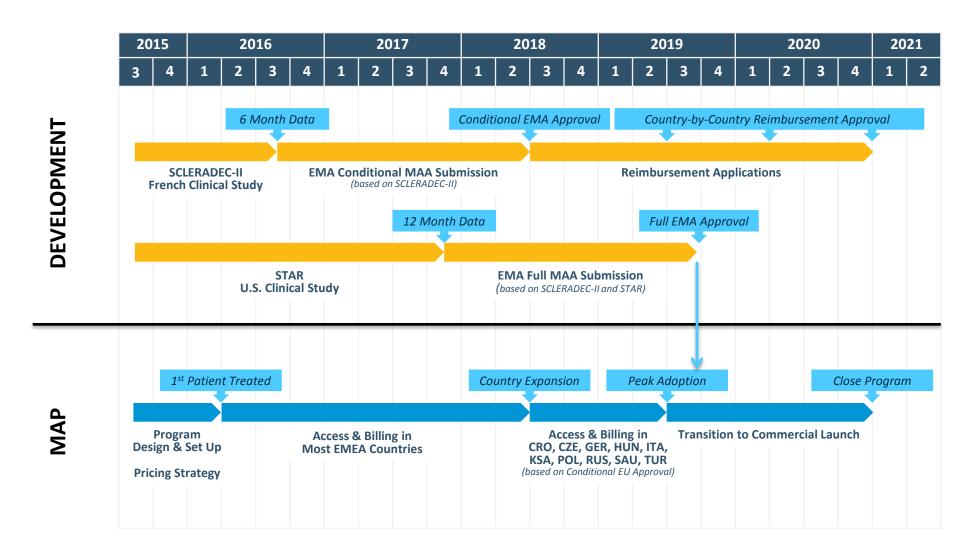


- **1** Provide ethical and compliant access to Cytori Cell Therapy[™], ECCS-50, for hand scleroderma patients prior to EMA marketing authorization
- 2 Increase awareness of and facilitate a positive experience with Cytori Cell TherapyTM among healthcare providers in advance of commercial launch
- Track and collect key program data and documentation providing valuable insight regarding the demand for and use of Cytori Cell TherapyTM
- 4 Implement a chargeable program in EMEA countries where regulations allow
- **Launch the program in Q1 and begin treating patients in Y1** and close the program once reimbursement is attained in each EMEA country



Scleroderma Anticipated Managed Access Program Timeline





Pipeline Indications

Knee Osteoarthritis
Urinary Incontinence
Radiation/Nuclear Burn

Knee Osteoarthritis

Osteoarthritis

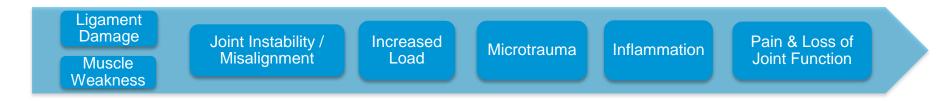
Progressive loss of joint function Imbalance between anabolic (cartilage-forming) and catabolic (cartilage-destroying) processes driven by synovial inflammation

Epidemiology

OA is the most common form of arthritis

- 13.9% of adults >25 years
- 33.6% (12.4 million) >65 years
- Estimated 26.9 million US adults (2005)

Pathophysiology



Cytori Cell Therapy

Preclinical, veterinary, and in vitro studies report modulation of inflammation and promotion of improved balance between anabolic and catabolic processes within the extracellular matrix of the cartilage



Knee Osteoarthritis: Market Overview

Situation: OA affects 10% of global population and clear unmet need

- Few non-surgical treatments recommended by AAOS
 - Treatment spectrum from oral analgesics/anti-inflammatory meds to total knee replacement
- Health systems are paying for expensive and inadequate treatments that are not recommended by professional bodies

L	example:		201	.4E Market Size:	\$2B
	Knee OA Treatment Modality	AAOS Guideline	US	Japan	ROW
	Hyaluronic Acid (HA) Injection *	Not recommended	\$900M	\$700M	\$400M

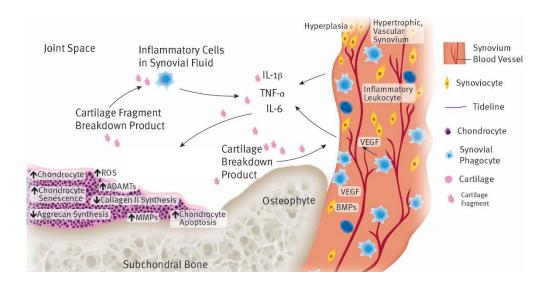
Opportunity: Biologic/Cell Therapy to better address gap between oral analgesics and surgical management

- Reduce use of NSAIDs with anticipated reduction in CV/Renal/GI side effects
- Improved pain relief and function
- Delay total knee arthroplasty

*Canaccord Genuity 34th Annual Growth Conference Aug 2014



Rationale for use of Cytori Cell Therapy in OA



- The pathophysiology of osteoarthritis (persistent synovial inflammation leading to cartilage destruction) overlaps with other clinical indications in which Cytori Cell Therapy shown to have impact
- Combination of veterinary, preclinical, in vitro, and pilot clinical data indicate significant potential for symptomatic improvement and perhaps disease modification
- Clinical feasibility proven



ACT-OA Enrolled Phase II Trial

Clinical/Regulatory Strategy

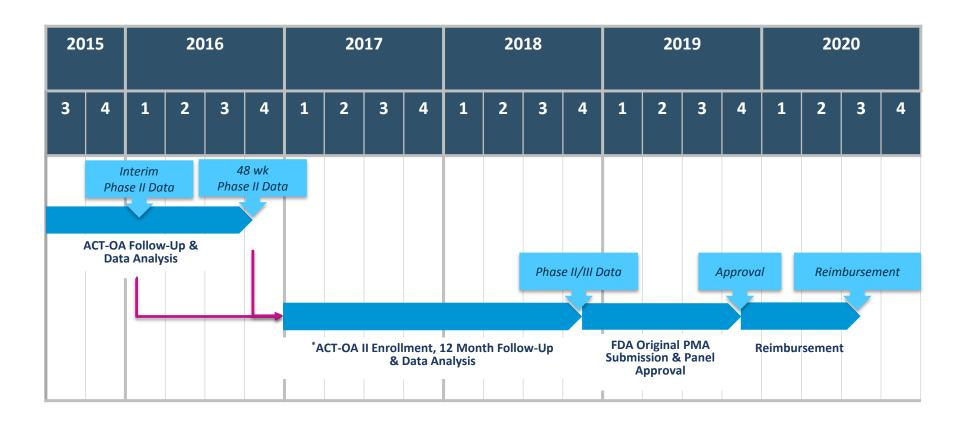
- US FDA phase II to investigate safety and potential efficacy in key endpoints of single intrarticular administration
- If positive- possible additional phase II, development, or proceed to phase III

	Phase II (ACT-OA)	
Study Size	94	
Randomization	1:1:1 (low dose, high dose, placebo)	
Crossover	None	
Sites	12 US	
Primary Endpoint	KOOS - pain on walking	
Secondary Endpoints	KOOS, pain/function questionnaires, pain meds, SF-36, MRI	
Follow-Up	48 weeks	
	Enrolled	
Status	24 wk data Q1/16	
	48 week data Q4/16	



Osteoarthritis Potential Development Path





*Pending 48 week data, funding, and FDA approval



Stress Urinary Incontinence Program: Japan

'ADRESU' Trial Objectives

- Approved, reimbursed therapy for SUI in men following radical prostatectomy
 - Significant unmet need for patients whose symptoms are not responding to conservative methods





GRADUATE SCHOOL OF MEDICINE
SCHOOL OF HEALTH SCIENCES

Support

 IIS with support from Cytori and substantial funding via grant from the Japanese Ministry of Health, Labour and Welfare

Progress/Data

- Pilot clinical trial data published 1,2
 - Increase in mean maximum urethral closing pressure
 - Reduction in mean 24-hour pad weight
 - Increased blood flow
- Ongoing 45 pt. Multicenter Pivotal Trial
 - Enrollment started Q3/2015
 - 2 years to enroll

Development Plan

- Ongoing pivotal trial anticipated as combined approval and reimbursement trial
- Assuming positive data, seek approval and reimbursement based on 12 month assessment
- Seeking commercial partnership with Japanese company

^{2.} Yamamoto et al. (2012) Int J Urology 19 (7) 652-9



^{1.} Gotoh et al. (2014) Int J Urology 21 (3) 294-300

Radiation/Nuclear Burn Program: USA





Objectives

- Development medical countermeasure for mass casualty event involving thermal burn ± radiation exposure
- Develop proof of concept clinical data for use of Cytori Cell Therapy in wound healing

Progress/ Preclinical Data

- Improvement in multiple tissue repair parameters following administration of Cytori Cell Therapy^{1,2}
- Effective via multiple routes of administration^{1,2}
- Efficacy sustained following substantial exposure to radiation dose³

Support

- Funded by \$106MM contract from Biomedical Advanced Research and Development Authority (BARDA)
 - Part of the Dept. of Health & Human Services
- \$18.7MM of funding allocated through September 2016

Development Plan

- Submit IDE application in 2016 for a firstin-man clinical trial
- Additional \$8.3 funding preapproved pending receipt of IDE approval for clinical trial

^{3.} Foubert et al (manuscript in preparation)



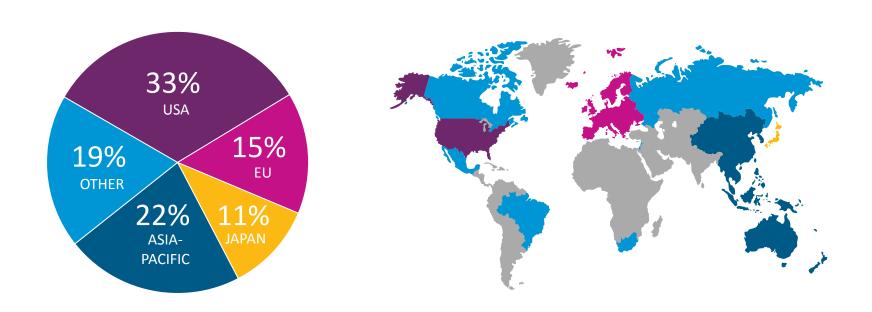
^{1.} Foubert et al. (2015) Burns doi:10.1016/j.burns.2015.05.004

^{2.} Foubert et al. (2015) Adv Wound Care doi:10.1089/wound.2015.0672

Corporate Information

Cytori Cell Therapy: Global Patent Estate

Over 80 patents issued worldwide; over 55 applications pending



Goal: Protect Cytori's proprietary methods and devices for manufacturing Cytori Cell Therapy, as well as methods of using Cytori Cell Therapy in the treatment of scleroderma, osteoarthritis, SUI and several other pipeline indications



Capitalization Summary

- Q2 2014- Corporate & management restructuring
- Change focus, eliminated/lowered outstanding liabilities and recapitalization

Select Data – as of 12/31/15		
Cash	~ \$19MM*	
Senior term loan	~ \$17.7MM	
Common Shares outstanding	~ 195MM	
Outstanding options, RSAs and warrants	~ 13MM	
Fully dilutive share count	~ 208MM	
Market capitalization	~ \$35MM	

^{*} As of September 30, 2015



Financial & Operational Performance





Narrowed S&M Loss (\$MM)



Capital Reallocation to R&D



^{**} Based on annualized figures from YTD September 30, 2015 financials



 $[\]boldsymbol{^*}$ Based on revised guidance of \$22 million in operating cash burn for 2015

Summary

- Unique cell therapy platform- clear commercial model, late-stage lead indication and growing development pipeline
- Completed corporate restructuring- better positioned to achieve key milestones 2016
- Substantial clinical data- indicates Cytori Cell Therapy provides symptomatic benefit, improved quality of life and may impact disease progression
- Scleroderma product introduction- 2016 EU managed access program and anticipated US product launch 2018
- Product & contract revenue growth- increasingly offset burn through 2018

Review Cytori Corporate Milestones

2016 Milestones

1st Half

- EU MAP program launch
- 24 WK ACT-OA interim data evaluation
- 2 YR follow up data SD-I presented
- Full STAR enrollment
- Full SD-II enrollment

2nd Half

- 48 WK ACT-OA data evaluation
- Japan & MAP progress reported
- SD-II data evaluation

2017 Milestones

- 1 YR follow up STAR evaluation
- File US FDA PMA approval scleroderma
- File EMEA approval scleroderma
- US Phase I Burn enrollment
- Full ADRESU enrollment



Thank You