



CARDIOGENICS HOLDINGS INC.

*OTCBB:CGNH*

2015

# FORWARD LOOKING STATEMENTS

Certain statements made in this presentation that are not historical are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995 and may contain forward-looking statements, with words such as "anticipate," "believe," "expect," "future," "may," "will," "should," "plan," "projected," "intend," and similar expressions to identify forward-looking statements. These statements are based on the Company's beliefs and the assumptions it made using information currently available to it. Because these statements reflect the Company's current views concerning future events, these statements involve risks, uncertainties and assumptions. The actual results could differ materially from the results discussed in the forward-looking statements. In any event, undue reliance should not be placed on any forward-looking statements, which apply only as of the date of this press release. Accordingly, reference should be made to the Company's periodic filings with the Securities and Exchange Commission.

# THE QL CARE™ ANALYZER

***Chemiluminescence  
+ Whole Blood  
+ solution phase***



First Point- Of-Care (POC) testing Platform to provide Lab-Like testing results at the POC

# CARDIOGENICS HOLDINGS INC.

- A biotechnology company dedicated to the development of products for the *In-Vitro Diagnostics* Testing market
- Became a public company in 2009 (OTC:BB)
- Two operating subsidiaries
  - CardioGenics Inc. (CGI) founded in 1997
  - LuxSpheres Inc., founded in 2007
- Since inception:
  - Developed several novel technologies
  - Deployed its proprietary technology in the QL CARE™ ANALYZER
  - Developed proprietary magnetic beads (a stand-alone product)
  - Built up a patent portfolio to protect its intellectual properties

# TEAM

## MANAGEMENT

**Yahia A. Gawad, MB.ChB, MD, MSc , *Founder, CEO and Director*** . Dr. Gawad is a Physician/Scientist, primary training in Cardiology, Biochemistry and Immunology. Previously, a co-founder of Syn X and prior to that, Director of Clinical Research at Spectral Diagnostics Inc. For the last 23 years, he has been focused on cardiac diagnostic test products, he took several products from concept regulatory approval processes and to commercialization

**James A. Essex, CA, MBA, CFO.** James has been with CardioGenics since 1999. Previously, he was President and COO of Calais Investigations, Inc., a private company (from 1993 to 1998), a Vice President of Confederation Trust (1989) and a Vice President of Chemical Bank of Canada (now Chase Manhattan Bank of Canada) from 1977 through 1987.

# CARDIOGENICS HOLDINGS INC.

**Ms. Linda J. Sterling, F.Inst.L.C.O., *Corporate Secretary/Director.*** Linda has been managing CardioGenics' legal affairs since 2003. She is licensed as a Legal Executive (F.Inst.L.C.O.) with the Institute of Law Clerks of Ontario

**Neil Tabatznik, *Acting Chairman.*** Mr. Tabatznik has been with CardioGenics since 2005. He was the Chairman/CEO of Arrow Pharmaceuticals Inc. Prior to that, the Chairman/CEO of Genpharm Inc. (1993-2000), which was acquired by Merck KGaA

**Karim Murabet, BA, MBA, *Director.*** Karim has extensive business experience in diverse fields. He began his career as a professional soccer player around the world and went on to work in the sporting goods industry as the owner of Lanzera Italia. Karim is a graduate of College du leman in Versoix, Switzerland and received a BA in human behavior and later an MBA in business from U.S. International University-San Diego

# CARDIOGENICS HOLDINGS INC.

## Advisory Boards

Prof. Robert Roberts, MD, *CEO and CSO, Ottawa Heart Institute*

Prof. William Kostuk, MD, *Professor of Medicine, U. Western Ontario*

# THE QL CARE™ ANALYZER

***Chemiluminescence  
+ Whole Blood  
+ solution phase***



First Point- Of-Care (POC) testing Platform to provide Lab-Like testing results at the POC



# THE QL CARE™ ANALYZER

- A small, portable , Quantitative Immunoassay POC analyzer
- Cartridge employs non-metered sample (whole blood/ plasma)
- Disposable pre-loaded test cartridge
- Quantitative result in 15 minutes
- Highly competitive among other POC products



# THE QL CARE™ ANALYZER

- Open architecture
- New application require no changes to Analyzer/ Cartridge
- Device placement in ERs
- Consumables business model, disposable cartridge tests
- Strong licensing potential
- Can be deployed to 200 Human clinical lab immunoassays
- Can be deployed for Non-Human applications:
  - Animal testing market/Food testing/Military use



# THE QL CARE™ ANALYZER

## **A. High testing SENSITIVITY:**

- CL-based light emission
- Electronic CL trigger -no moving parts
- Photon-counted light emission
- Silver-plated beads
- Accelerated binding

## **B. High testing ACCURACY:**

- walk-away testing- no operator steps
- Self-metering Cartridge (patented)
- No sample processing- Whole blood
- Automated Flash separation
- Bar-code scanning



# QL CARE™ ANALYZER DIFFERENTIATION



High



ACCURACY

Low



< 30 min.

> 30 min.



TIME

# THE QL CARE™ ANALYZER TESTS

## PRIMARY TEST:

- Troponin-I For AMI Detection - \$650M US Market

## OTHER TESTS:

- Heart Failure Risk Stratification (HFRS) - \$1B US Market
- Plasminogen Activator Inhibitor-1 (PAI-1) - \$300M US Market
- Heart Failure Genomics Risk (HFGS) - \$400M US Market



# TROPONIN-I



- Troponin-I (TnI) testing is the current standard of care  
(Market size of about \$650 million in the US)
- Quick/reliable diagnosis of Acute Myocardial Infarction is critical  
(lives/resources)
- Over 95% of market employs central laboratory tests (2.8h)  
(No POC device delivers results similar to lab. sensitivity& accuracy)

# TEST RESULTS REQUIRED IN 30 MINUTES

**AMERICAN HEART  
ASSOCIATION**



**AMERICAN COLLEGE OF  
CARDIOLOGY GUIDELINES**



# CURRENT TIME TO LAB-RESULTS

**2.8 HRS**

**AVERAGE TIME  
FOR HOSPITAL-BASED  
LAB RESULTS**





# COST SAVING TOOL

**8M** patients present with chest pain



 = MILLION PATIENTS

**1.3M AMI**  
heart attack patients



**=\$31B**



# QL Care TROPONIN-I



- A accurate (lab-quality) POC test for AMI
- Treating patients with heart attacks within the “golden hour”
- CardioGenics’ data demonstrates sensitivity/accuracy similar to central lab results
- Currently in Pilot testing
- Rapid Turn-Around-Time to assist in proper patient triage
  - Save lives
  - Reduce costs (reducing unneeded admissions to expensive high care units)

# THE QL CARE™ ANALYZER PATH TO MARKET

## PILOT TESTING

200 patients

Wayne State University

Results expected Q1/Q2 2016

## 510K FDA Trial

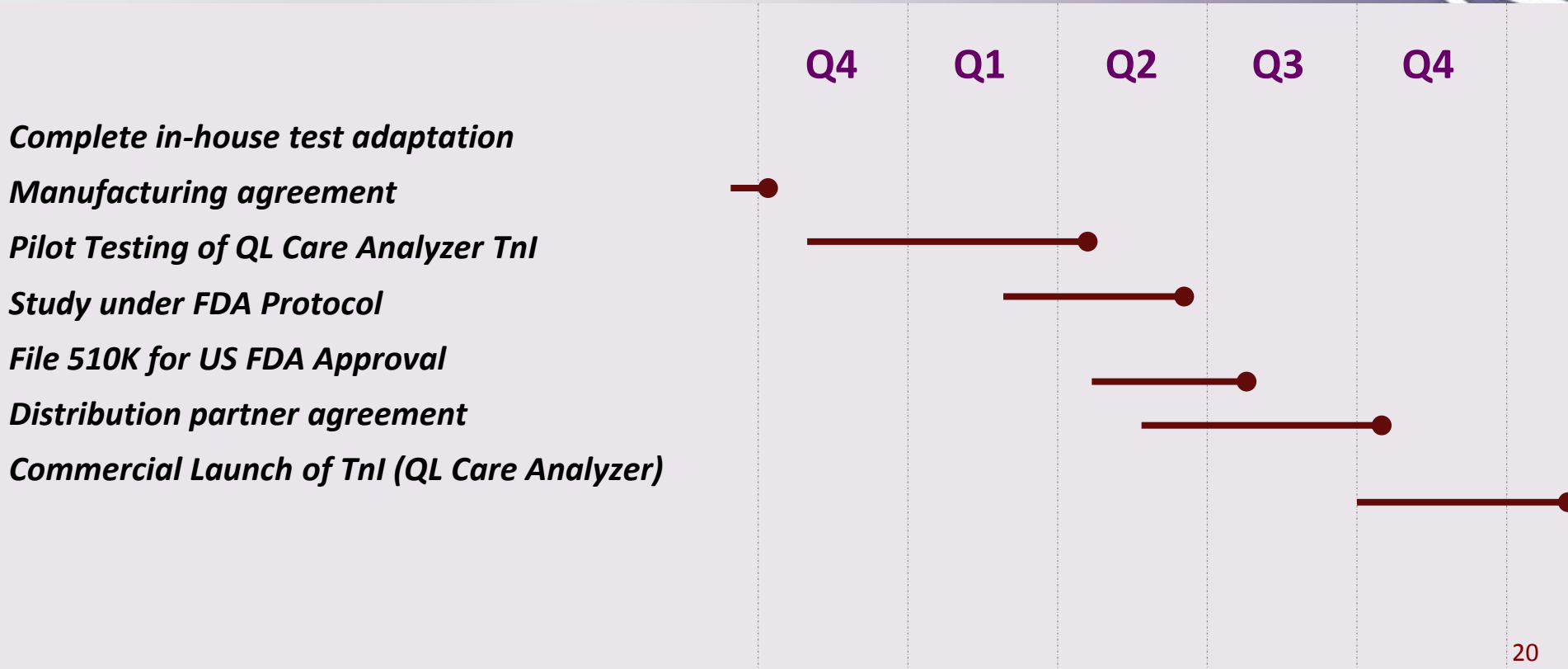
Predicate device (Siemens Centaur XP- Tnl)

200 patients

Wayne State University

Results expected Q2/Q3-2016

# THE QL CARE™ ANALYZER PATH TO MARKET



# CARDIOGENICS' PIPELINE

PRODUCT

PILOT TEST

510K TEST

COMMERCIAL

QL CARE™ Analyzer



Troponin-I



Follow-on tests



# THE QL CARE™ ANALYZER

***Chemiluminescence  
+ Whole Blood  
+ solution phase***



First Point- Of-Care (POC) testing Platform to provide Lab-Like testing results at the POC

A person wearing a white lab coat and a dark cap is operating a medical device. The device has a screen displaying the 'QL Care' interface. The screen shows a logo on the left, the text 'QL Care' at the top, and several buttons below: 'Demo', 'Database', and 'Log Out'. The time '3:19 PM' is displayed in the bottom right corner of the screen. The background is a blurred laboratory setting.

# LEADING IN VITRO DIAGNOSTICS COMPANY FOCUSED ON THE POC MARKET

Yahia A. Gawad, MB. Ch.B, MD, MSc  
*Chief Executive Officer*

2015