

DIGITAL INNOVATION IN HEALTH

TOM BRAEKELEIRS
DIRECTOR BHIC

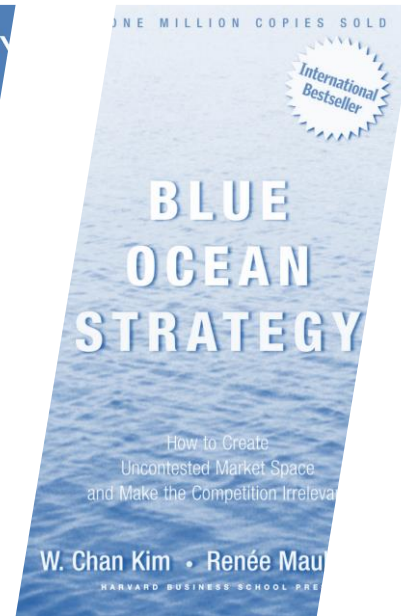
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INSPIRATION



SUSTAINABILITY



INNOVATION



BlueHealth Innovation Center

supported by  Microsoft



STRATEGY



STUDENTS



START-UPS



HEALTHCARE PROVIDERS

PARTNERS



GOVERNMENT



HEALTHCARE PROVIDERS & ACADEMIA



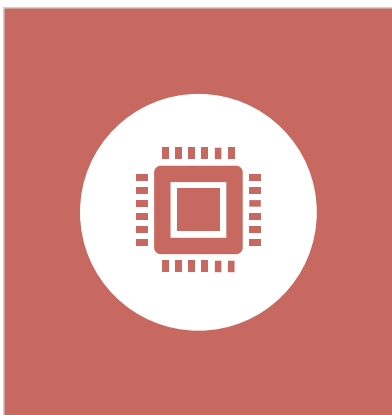
INDUSTRY



AGENDA



SOCIETY



TECHNOLOGY



MINDSET



SOCIETY & TECHNOLOGY



"SENATOR, WE RUN ADS."



EVERY BUSINESS IS A DIGITAL BUSINESS



Firmware Update to Address Cybersecurity Vulnerabilities Identified in Abbott's (formerly St. Jude Medical's) Implantable Cardiac Pacemakers: FDA Safety Communication



Date Issued

August 29, 2017

Audience

- Patients with a radio frequency (RF)-enabled St. Jude Medical implantable pacemaker
- Caregivers of patients with an RF-enabled St. Jude Medical implantable cardiac pacemaker
- Cardiologists, electrophysiologists, cardiothoracic surgeons, and primary care physicians treating patients with heart failure or heart rhythm problems using an RF-enabled St. Jude Medical implantable cardiac pacemaker

Medical Specialties

Cardiac Electrophysiology, Cardiology, Cardiothoracic Surgery, Heart Failure

Devices

Abbott's (formerly St. Jude Medical's) implantable cardiac pacemakers, including cardiac resynchronization therapy pacemaker (CRT-P) devices, provide pacing for slow or irregular heart rhythms. These devices are implanted under the skin in the upper chest area and have connecting insulated wires called "leads" that go into the heart. A patient may need an implantable cardiac pacemaker if their heartbeat is too slow (bradycardia) or needs resynchronization to treat heart failure.

BioMind™

BioMind™ is a state-of-the-art diagnostic support system that uses deep learning technology to analyse MRI and CT images.



225

66%

87%

TECHNOLOGY IS CHANGING THE WAY...

A photograph of a male physician with a beard, wearing a white lab coat and a stethoscope, looking down at a tablet device. The image is overlaid with a semi-transparent blue filter.

**PHYSICIANS
PRACTICE**

A photograph of a person's hands holding and using a smartphone. The image is overlaid with a semi-transparent teal filter.

**PATIENTS
LEARN & DO**

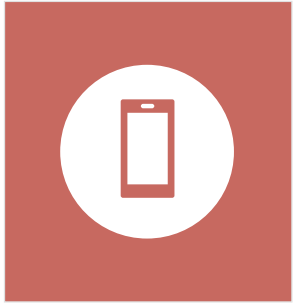
A photograph of a caregiver assisting an elderly patient. The caregiver is wearing a white protective gown and mask, and the patient is wearing glasses. The image is overlaid with a semi-transparent red filter.

**CAREGIVERS
ASSIST**

A photograph of a hospital room with various medical equipment, including monitors and IV stands. The image is overlaid with a semi-transparent dark blue filter.

**CARE
INSTITUTIONS
MANAGE**

THE FUTURE OF HEALTHCARE IS...



MOBILE



SOCIAL



FUN



INTERACTIVE



DATA DRIVEN

FIBRICHECK



MOBILE



EARFY

“

Ik heb voor het eerst sinds jaren kunnen "spreken" met mijn 84-jarige vader. Je had zijn ogen moeten zien! Enorm bedankt daarvoor!



Ruth, heeft een dove vader



MOBILE

Earfy

EPIHUNTER



MOBILE

 epihunter®

HELPPER

Ik woon in postcode en zoek een Helper voor mezelf ▼

Helper zoeken



SOCIAL

helper

KARATON



KARATON



FUN

PLAY IT SAFE



FUN



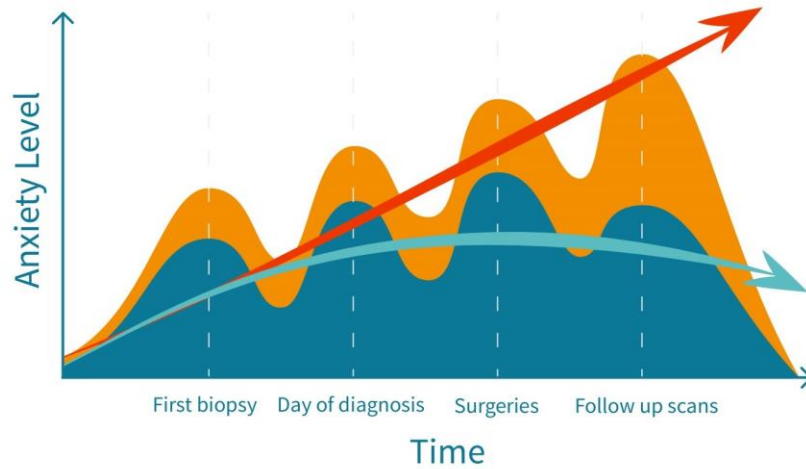
MEMORIDE



FUN

MEMORIDE

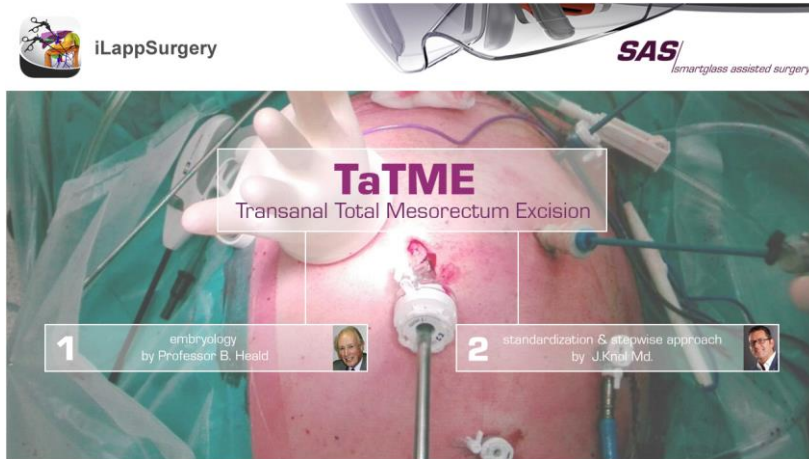
ONCOMFORT



INTERACTIVE



DLIVEMED



INTERACTIVE

DLivemed

BINGLI



DATA DRIVEN



BINGLI

Prepared patients – informed doctors
for better consultations

LYNXCARE

Box 155
1055 East 19th Avenue
Denver, Colorado
80218-1088

Telephone Number
303-861-8895

NEUROLOGY CONSULTATION

REGARDING: [REDACTED]

TCH MR NO: [REDACTED]

DATE OF BIRTH: [REDACTED]

DATE OF VISIT: 11/13/2002

Dear

We had the opportunity to follow up with [REDACTED] today in the neurology clinic regarding his syringomyelia, Chiari I malformation, and history of tethered cord status post surgical repair. He was accompanied by his mother.

HISTORY OF PRESENT ILLNESS: As you know, [REDACTED] is a 7-year-old right-handed Caucasian male. [REDACTED] was diagnosed with tethered cord and syringomyelia one year ago. The tethered cord release was performed by Dr. [REDACTED]. The family was later seen by the Chiari Center in New York. We saw [REDACTED] today for routine neurologic evaluation.

[REDACTED] has been doing well since our last visit in September 2002. It was noted that there was hair kinking which was evaluated by dermatology (Dr. [REDACTED]). He was diagnosed with woolly nevus, a benign condition. He has also reported leg pain which he describes as shooting and stabbing in quality. There has also been transient leg weakness over the past week. Approximately one week ago [REDACTED] reported right shoulder and rib pain which resolved. Mother noted that at that time [REDACTED] appeared quite sick with dark circles under his eyes and facial pallor.

DIAGNOSTIC EVALUATIONS: Repeat MRI r(magnetic resonance imaging) of the brain and cerebrospinal column were obtained on November 5, 2002, here at The Children's Hospital. The brain MRI showed unilateral Chiari type I malformation, punctate signal abnormality in bilateral frontal lobes, left side greater than the right, without abnormal enhancement, a nonspecific finding, normal circle of Willis MRA (magnetic resonance angiography) angiogram. The cervical spinal MRI showed stable cervicothoracic spinal cord syrinx and prominence of the lower thoracic spinal canal; asymmetric Chiari type 1 malformation with the left cerebellar tonsil low in position; probable os odontoideum with no abnormal enhancement seen related to the dens; stable conus position with unchanged fatty filum.

Laboratory work was obtained to rule out Menkes' variant. A ceruloplasmin level was 26 which is within normal limits. The copper level is currently pending.



DATA DRIVEN



LYNXCARE

EMMA.HEALTH



DATA DRIVEN

emma²



MINDSET SHIFT

CHALLENGES





OPPORTUNITY ANALYSIS



**"THE OPPORTUNITY IS BIGGER THAN
WHAT IS STANDING IN YOUR WAY."**

“

WE HAVE TO SHOW COURAGE
IN THE FACE OF REALITY.

- SATYA NADELLA

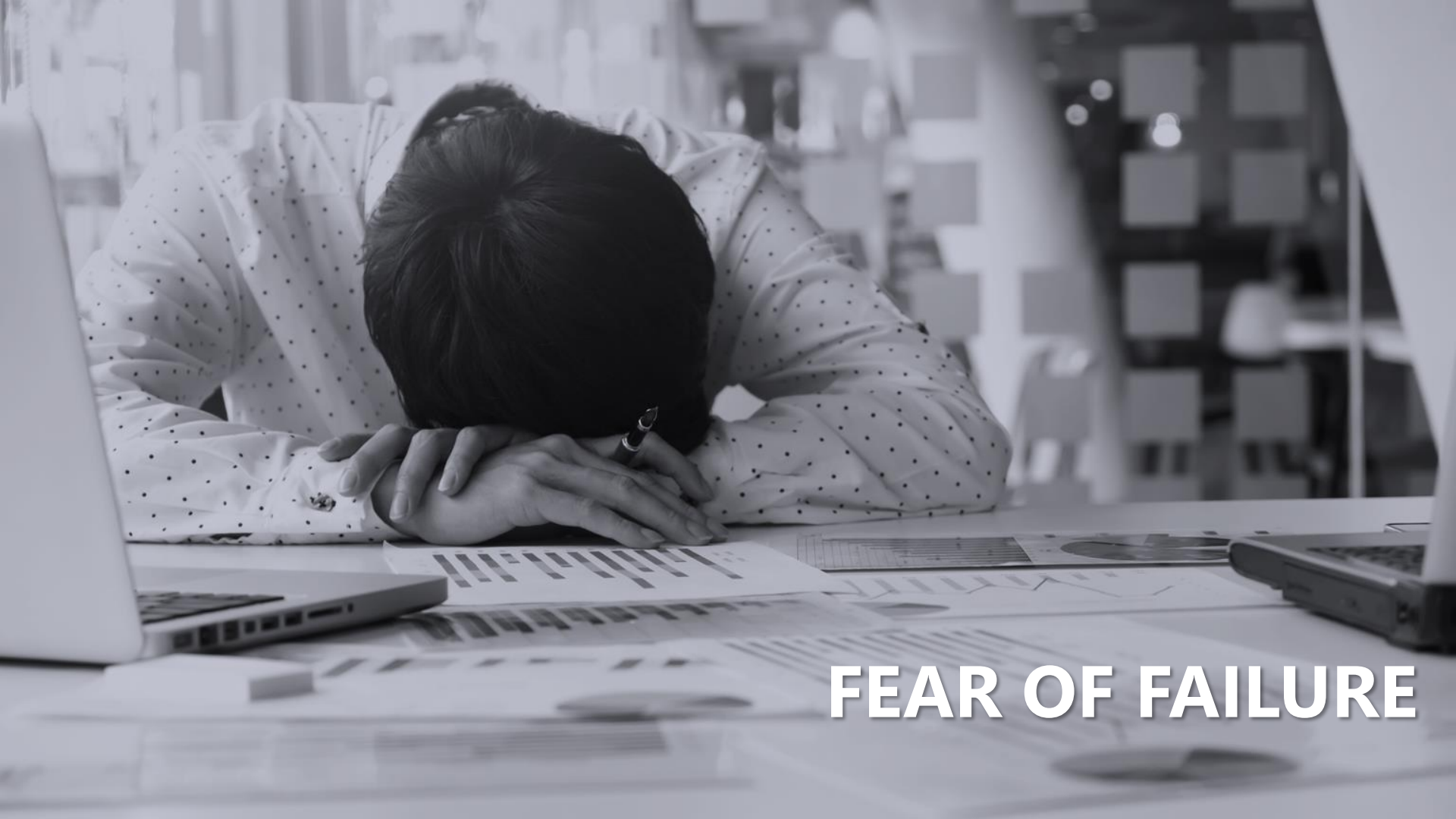
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WHAT IF







FEAR OF FAILURE



POSITIVE MINDED ENTREPRENEURSHIP

THE NEW SUPERHEROES



**WE
NEED
MORE
SNEAKERS**



“

SCREW IT, LET'S DO IT!

- RICHARD BRANSON

”





“

YOU CAN MAKE EXCUSES,
OR YOU CAN MAKE PROGRESS.
YOU DECIDE!

- TOM BRAEKELEIRS

”

THANK YOU!

Tom Braekeleirs - tom@bhic.care

C-Mine Crib
C-Mine 12
3600 Genk

StartUpVillage
Lange Gasthuisstraat 29
2000 Antwerpen

De Krook
Miriam Makebaplein 1
9000 Gent

