





# Advancing the world of health

Didier Morel GCD Data Science December, 2018



### Healthcare challenges continue to evolve







Patient and healthcare worker safety



Connecting with patients



Antimicrobial resistance





Access to affordable healthcare



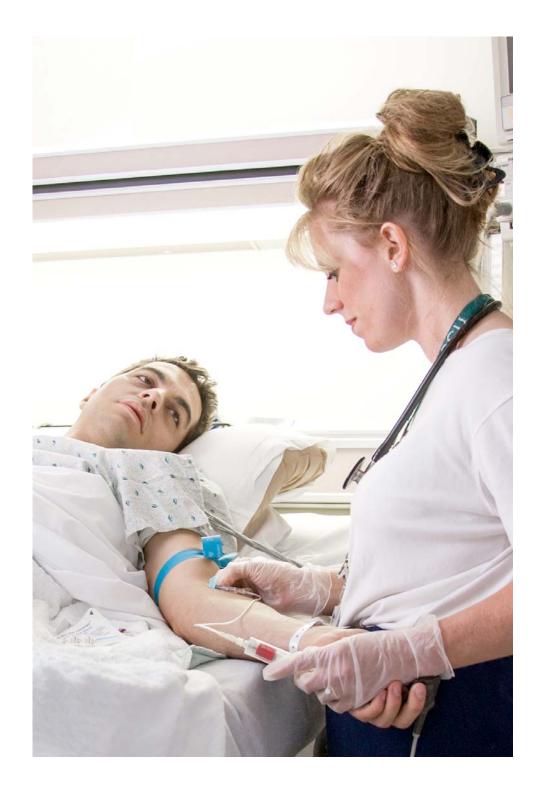
Chronic diseases



Accountable care



We also evolve to help address these critical challenges



### We continue to invest in additional capabilities

A leading provider of comprehensive healthcare solutions

2017



### Clinical outcomes and disease management

 Accelerating end-to-end medication management, infection prevention and disease management

2015-2016



### Medication management and patient safety solutions

- Integrating medication management solutions to reduce medication errors
- Maximizing outcomes in infection prevention and acute care procedural effectiveness, while improving patient and healthcare worker safety

2000-2014

**Since 1897** 

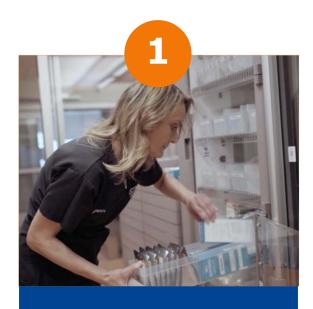


### Medical discovery, diagnostics and delivery of care

- Enabling safer, simpler and more effective drug delivery
- Improving clinical outcomes through accurate and faster diagnostics
- · Facilitating understanding of the cell, cellular diagnostics and cell therapy



### Our focus is on three strategic areas



**Reshape** medication management across care continuum



**Prevent** infections and **improve** safety



**Advance** the treatment of disease



## Our innovative solutions help to address challenges across the patient care continuum

Interventional Medical **Life Sciences** Diagnostics Discovery Medication management Therapy management Informatics: integrated workflow management and data analytics Maximizing outcomes for surgical **Enabling research** Improving diagnostic **Integrating medication management** inside and outside across the care continuum processes accuracy and the cell efficiency













**Optimizing medication delivery** 







Integrating diabetes management





Advancing urology and critical care





**Enhancing outcomes for peripheral** 





# Keeping the patient at the center of everything we do



Kills more than 250K people in the U.S. each year<sup>1,2</sup>



422M
Patients with

diabetes globally8



Patients harmed by **medication errors** each year<sup>3</sup> ≈240K

Lower extremity amputations per year, due to **critical limb ischemia** (U.S. and Europe)<sup>4</sup> 1 in 25

Number of patients who acquire at least one **infection** during care<sup>5</sup>

58%

Percent of in-hospital adverse events associated with surgical care<sup>6</sup>



Someone in the U.S. is diagnosed with a **blood cancer**<sup>7</sup>



Our goal is to help you succeed



Improve patient and healthcare worker safety



Improve patient outcomes and experience

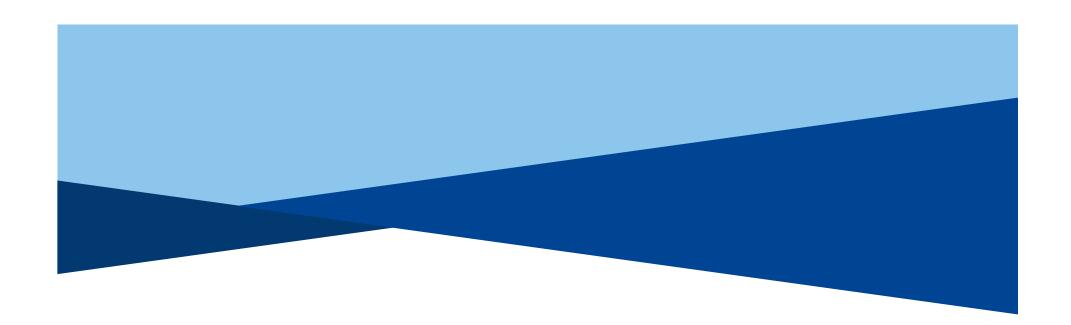


Control total cost of healthcare



Improve care delivery and capabilities





# Thank you!





### References

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- 5. Centers for Disease Control and Prevention (CDC). Healthcare-associated Infections (HAIs) Data and Statistics. Accessed 12 Dec 2017 at https://www.cdc.gov/HAI/surveillance/
- 6. De Vries EN, Ramrattan MA, Smorenburg SM, Gouma DJ, Boermeester MA. The incidence and nature of in-hospital adverse events: a systematic review. Qual Saf Health care. 2008;17(3):216-223. Print.
- 7. Leukemia & Lymphoma Society. Facts and Statistics: General Blood Cancers. Accessed 29 Dec 17 at <a href="http://www.lls.org/http%3A/llsorg.prod.acquia-sites.com/facts-and-statistics-overview/facts-and-statistics">http://www.lls.org/http%3A/llsorg.prod.acquia-sites.com/facts-and-statistics-overview/facts-and-statistics</a>
- 8. NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in diabetes since 1980: a pooled analysis of 751 population-based studies with 4·4 million participants. Lancet 2016; 387: 1513–30.

### Innovation timeline

1897

Becton, Dickinson and Company opens its first office in New York City









Yale Luer-Lok™ syringe: the first simple, secure method for attaching and removing a needle from a syringe



BD Vacutainer® blood collection tube: the first evacuated blood collection tube, improving quality and safety of blood collection



**1961**BD Plastipak™ syringe: first disposable polypropylene syringe on the market



1981 BD BACTEC™ 460TB instrument: first automated system for TB testing



1985
First to harness
the highly specific
binding properties
of monoclonal
antibodies



2015 BD completes acquisition of CareFusion



2017 BD completes acquisition of Bard

1924

A BD syringe delivers the first insulin dose ever

#### 1940s

First sterilization technology for devices



#### 1950s

First disposable syringe produced, at cost, for Dr. Jonas Salk's field test of the polio vaccine



### 1971

Babybird ventilator: first infant ventilator



#### 1980s

First safety syringe and plastic sharps disposal to protect healthcare workers



#### 1989

Pyxis MedStation® 1000 system: first automated medication dispensing cabinet



#### 2017

BD received multiple FDA 510(k) clearances, including one for its FACSLyric™ flow cytometer system with BD Multitest™ assays





# Awards, recognitions and affiliations























# Partnerships



















