



NAVIFY® Infection Management*

Powered by *Innovaccor*

**Combining the power of clinical
science and clinical data**

Announcing the development of NAVIFY Infection Management, a new product that will help redefine the management of acute infections.

This digital acute infection management solution is being designed with an initial focus on Antimicrobial Stewardship to streamline workflows, support collaboration and analytics and help physicians make the most accurate antibiotic decisions for patients based on guidelines.

*Product in development and not commercially available

NAVIFY®

COVID-19 and **NAVIFY Infection Management*** *Powered by **Innovaccer***

In the wake of the COVID-19 pandemic, **acute infections have contributed to increasing healthcare burdens.**

These include higher rates of hospitalization, length-of-stay and readmission.

With our shared, deep understanding of clinical science and medical care, Roche is developing NAVIFY Infection Management* with the goal of helping to improve patient care by capturing opportunities that lie in integrating and activating healthcare data to support more efficient care delivery.



We create value for healthcare institutions and patients:

We provide an integrated portfolio of data-driven and healthcare decision support solutions to standardize and simplify care for healthcare organizations and patients

Rich patient summaries and patient journeys, across extended care workflows

Contextualized clinical and operational insights for providers and patients



We leverage the Innovaccer Health Cloud:

Data activation platform to aggregate, normalize and activate disparate structured and unstructured data from EHRs, labs, claims, pharmacies and beyond.

We deliver a complete and accurate longitudinal patient record to inform clinical, financial and operational workflows.



Unleashing the power of clinical data and clinical science to elevate patient care

Acute infections result in significant healthcare burdens

Optimizing management can improve patient care and reduce healthcare costs

Focus: Stewardship, Sepsis, Pneumonia, HAIs, Antimicrobial-resistant (AMR) infections

Morbidity/Mortality

>**7M** hospitalizations for infection^{1,3,4,5}

LOS¹¹ ~3 days longer with infection⁷

Up to 25% of pneumonia readmitted³

1 in 3 hospital deaths from sepsis¹

Financial Burden

>**41B** Medicare costs for Sepsis²

>**9.8B** Cost for HAIs⁴

2B Cost for AMR infections⁵

Impact on reimbursement in VBC¹⁶

Quality of Care

Accreditation

CMS Quality Star ratings

Other quality/safety rankings

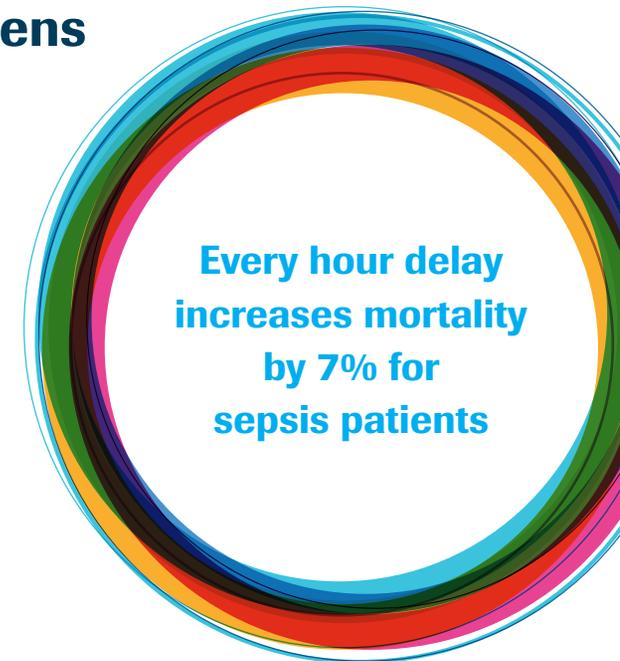
HEDIS measures

Public Health Implications

>**30%** of inpatient rx inappropriate⁹

2.8M AMR infections and rising⁵

AMR linked to poor outcomes⁶



Acute infections drive:

Hospitalizations
Prolonged LOS¹¹
Readmissions

Key challenges in clinical care delivery

Inefficiencies and lack of actionable insights lead to suboptimal outcomes¹⁰

Through our collaboration with Roche's portfolio of data-driven decision support solutions and the tremendous power of the Innovaccer Health Cloud, NAVIFY Infection Management* will help leverage the advantage of analytics, contextualized insights, streamlined workflows and data activation.

Gaps and opportunities

Information access issues

Disparate data sources
Interoperability challenges
Lack of longitudinal patient information

Inefficient workflows

Variable practices
Inconsistent adherence to guidelines
Delays in communication

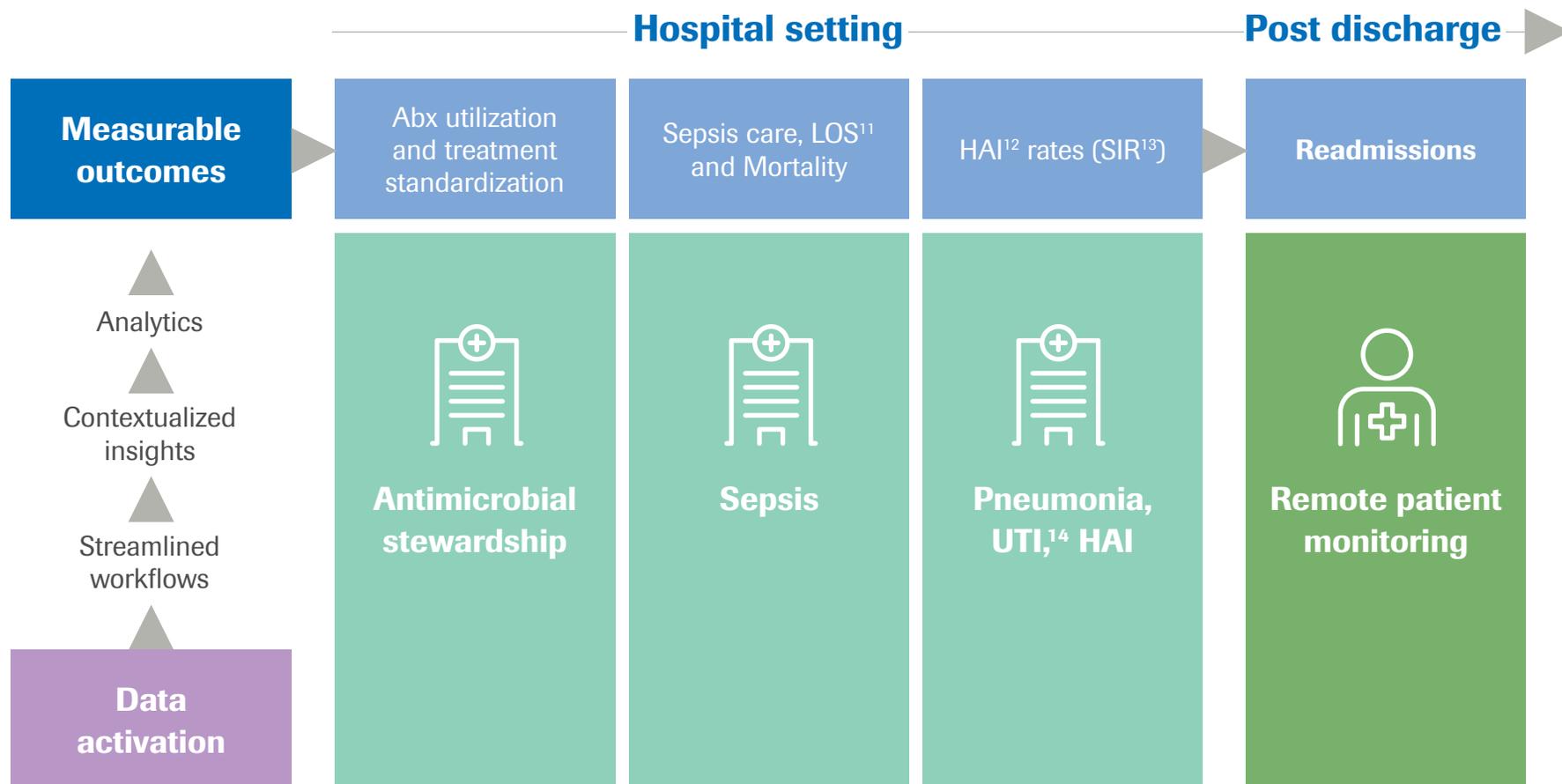
Inadequate digital tools

Poor user experience
Solutions are not purpose built
Limited IT resources and support

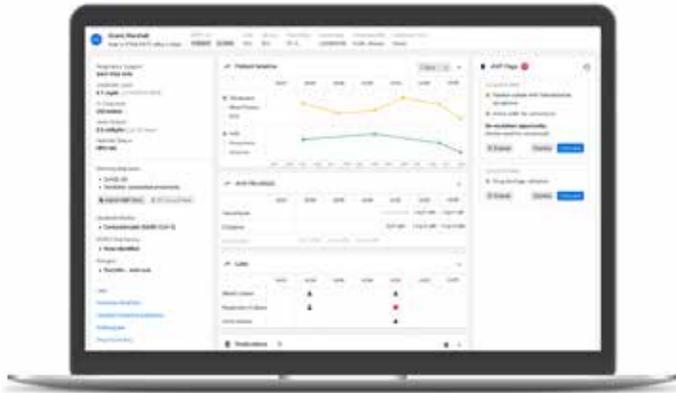
Gaps lead to:
Low adherence to best practices
Delayed and/or inappropriate care
Increased healthcare costs

NAVIFY Infection Management* *Powered by Innovaccer*

Improving quality across the care continuum for different disease areas



Antimicrobial stewardship: Bringing insights closer to the bedside*



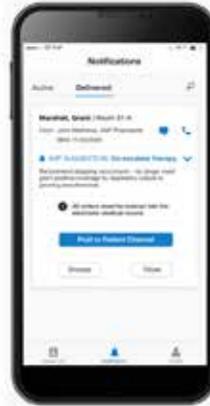
ASP team

(ID physician, pharmacist)

Patient prioritization for audit/feedback

Comprehensive patient view

Real-time interventions/collaboration



Care team

(Hospitalist, Intensivist, RN)

Rule-based alerts

Therapy guidance

Guideline navigation



Admin

(ASP/ID lead, Quality, C-suite)

Analytics (NHSN, antibiotic utilization)

Antibiogram/guideline authoring tools

CMS/TJC compliance

External studies¹⁵ show value of effective stewardship programs:

↓ **LOS¹¹** by ~3 days on average

↓ **Readmit rate** up to **2.9%**

↓ **Abx \$** by ~**35%** on average

↓ **\$/patient** up to **\$2640**

Improve CMS star ratings

Compliance to CMS CoP rule

TJC accreditation

Value-based payments

NAVIFY Infection Management*

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Infections have a significant effect on quality of care impacting accreditation, CMS Quality Star ratings and other quality and safety rankings, as well as HEDIS measures.

Data from external studies show the value of effective stewardship programs include:

- Reduced length-of-stay by approximately three days on average
- Reduced readmission rate up to 2.9%
- Reduced Abx spend by approximately 35% on average
- Improved CMS start ratings and compliance to CMS CoP rules, TJC accreditation, increased value-based payments





Advancements with NAVIFY technology and data

For more than 120 years, Roche has been a globally recognized healthcare leader. Our legacy makes us a trusted source of medical insights and knowledge. We partner with you in a committed strategy to expand what's possible for your institution and your patients.

Roche is doing now what our clients need next to enable decision support, personalized healthcare and value-based medicine.

Leverage clinical science and clinical data

Contact your Roche account manager or visit navify.com.

¹ CDC Sepsis data & reports. <https://www.cdc.gov/sepsis/datareports/index.html>

² <https://www.hhs.gov/about/news/2020/02/14/largest-study-sepsis-cases-among-medicare-beneficiaries-finds-significant-burden.html#:~:text=U.S.%20hospitals%20saw%20a%2040,of%20Health%20and%20Human%20Services;>

³ [https://www.healthcarediver.com/news/sepsis-costs-medicare-6b-topping-all-other-inpatient-discharges/504200/;](https://www.healthcarediver.com/news/sepsis-costs-medicare-6b-topping-all-other-inpatient-discharges/504200/)

⁴ <https://www.atsjournals.org/doi/10.1513/AnnalsATS.201602-135SR>; <https://www.healthaffairs.org/doi/10.1377/hlthaff.2017.11153>;

⁵ <https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/1733452>; <https://pubmed.ncbi.nlm.nih.gov/16625125/>;

⁶ <https://www.cdc.gov/drugresistance/pdf/threats-report/2019-ar-threats-report-508.pdf>;

⁷ <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2777635>

⁸ <https://aricjournal.biomedcentral.com/articles/10.1186/s13756-019-0471-0>

⁹ <https://www.cdc.gov/media/releases/2016/p0503-unnecessary-prescriptions.html>;

¹⁰ Roche market survey research

¹¹ LOS: length of stay

¹² HAI: healthcare associated infections

¹³ SIR: standardized infection ratio

¹⁴ UTI: urinary tract infection

¹⁵ <https://aricjournal.biomedcentral.com/articles/10.1186/s13756-019-0471-0>

¹⁶ VBC: value-based care