

Outcomes-driven Asthma data application, Emirates Health Services (EHS)- United Arab Emirates



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CONFLICT OF INTEREST STATEMENT

All authors and my self declare that we have no conflicts of interest



UAE CABINET ADOPTS NATIONAL ARTIFICIAL INTELLIGENCE STRATEGY 2031

- The National Artificial Intelligence Strategy 2031 aims at positioning the UAE as a global leader in artificial intelligence by 2031, and to develop an integrated system that employs artificial intelligence in vital areas in the UAE.
- The strategy focus on the following fields of priorities during the first phase of implementation: resources and energy, logistics and transportation, tourism and hospitality, healthcare, and cyber security.



Minister of AI

His Excellency Omar Sultan Al Olama has been appointed as Minister of State for Artificial Intelligence in October 2017, and then was appointed as Minister of State for Artificial Intelligence, Digital Economy and Remote Work Applications in July 2020.





EHS Vision:

At the forefront of delivering healthcare services

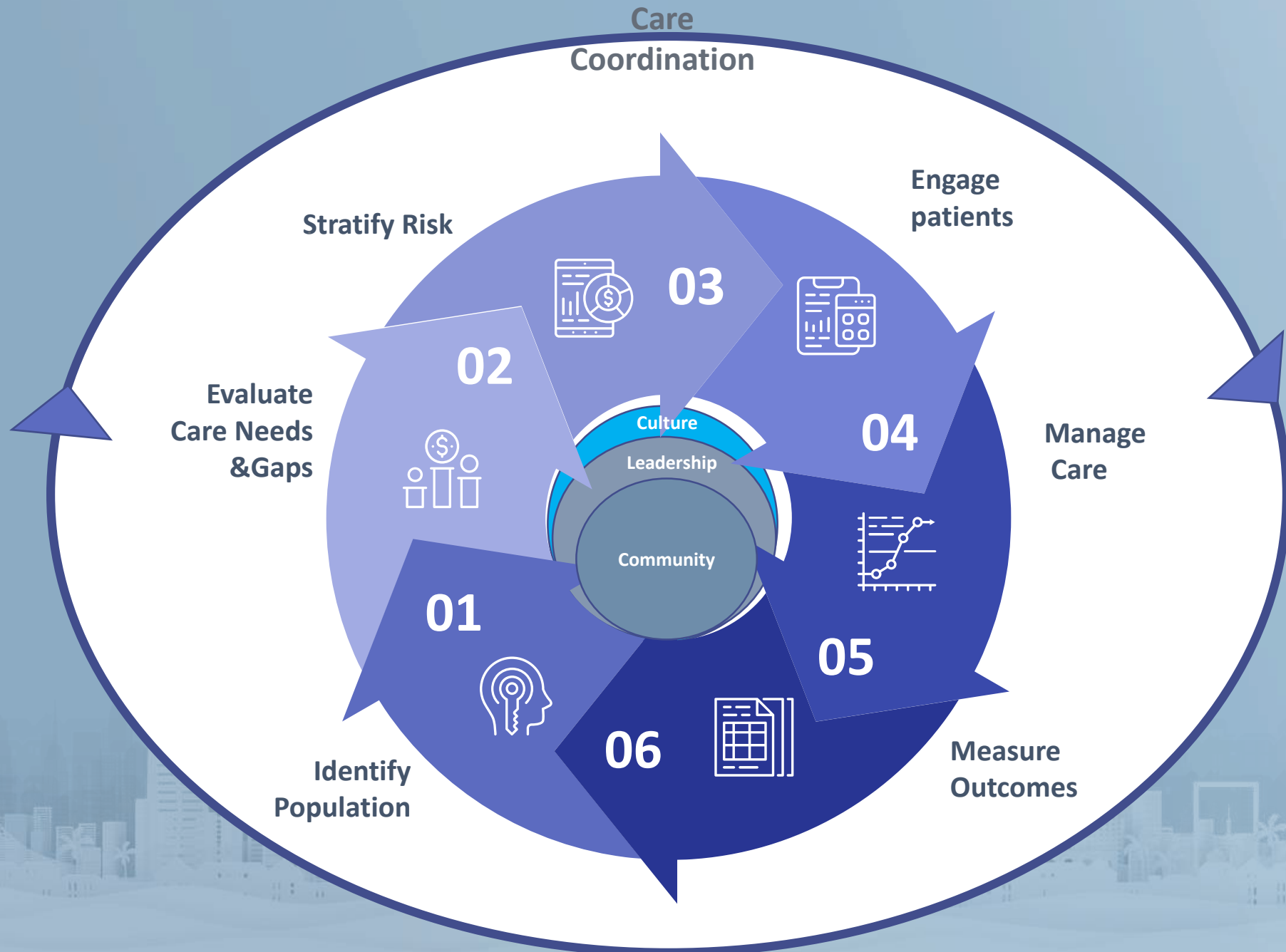
EHS Mission:

To provide sustainable, integrated, accessible, efficient, innovative and high-quality healthcare services in line with UAE's vision and international standards.

Primary Health care Goals :

- Implementing a family medicine model of integrated, high-quality care
- Provide comprehensive, integrated and coordinated care
- Improving the timeliness of service delivery and increasing access to care
- Strengthening centers of excellence to support primary health care service

POPULATION HEALTH MODEL



Asthma



- ✓ Chronic Lung disease – limiting effect on the quality of life
- ✓ Global Burden: affected an estimated 262 million people in 2019 and caused 455 000 deaths.
- ✓ Regional Burden: 7.6%

Asthma Control



- ✓ Good control -reduced hospitalizations, improved quality of life
- ✓ PHC physicians follow, guided workflow embedded in the EHR

Problem Statement



- ✓ No direct, automated method of identifying care compliance and clinical risks for our patients
- ✓ Low Care compliance (below 20%)

Asthma Data Application



- ✓ Proactive, actionable, Asthma data application
- ✓ Data-driven, Care coordination Model
- ✓ Pilot implementation

Aims & Objectives

Aims

- ✔ To create facility-level asthma information that could provide actionable insights for program coordinators

Objectives

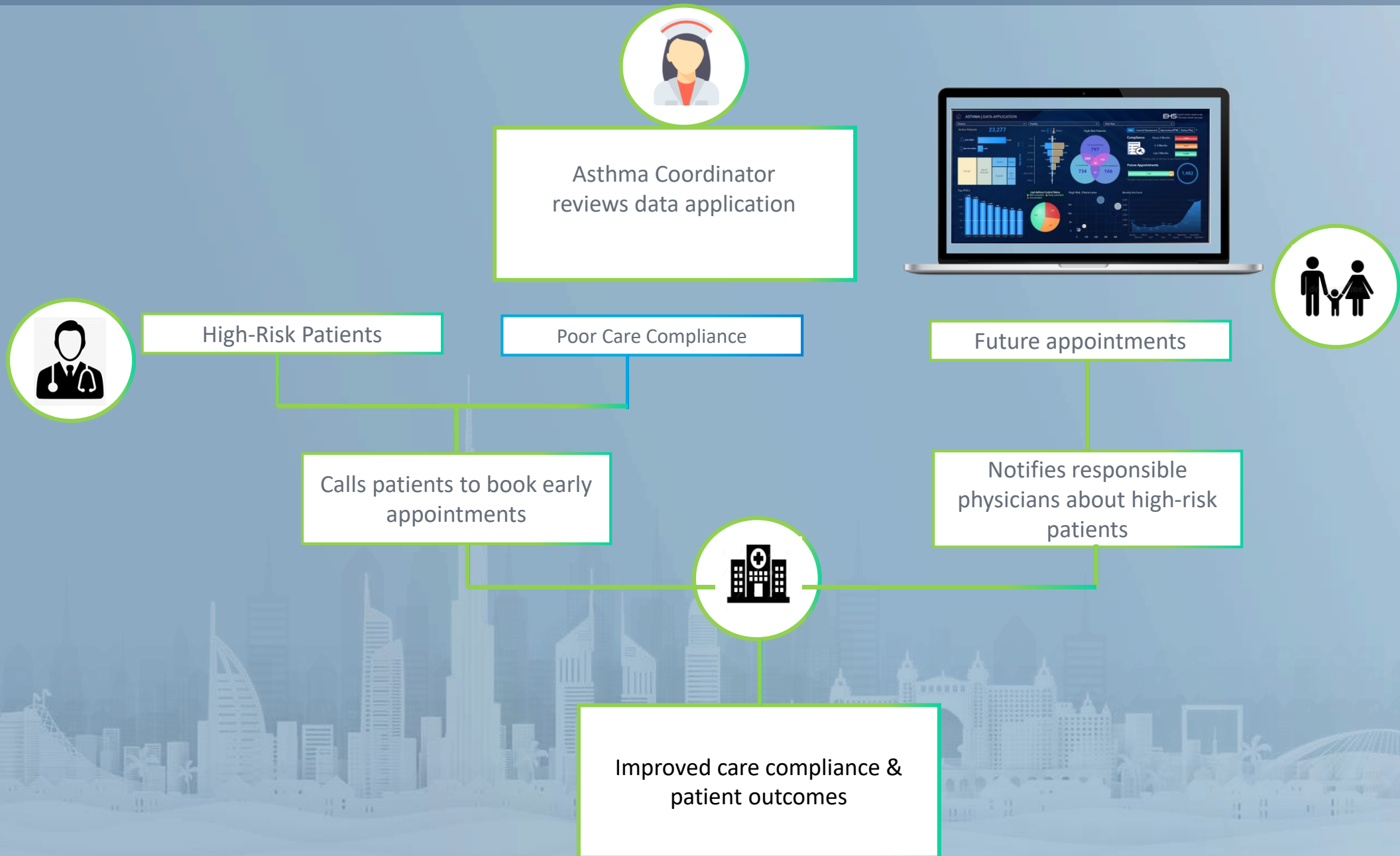
- ✔ Increased Asthma Visit Compliance
- ✔ Improved Control Assessment documentation
- ✔ Increased Pulmonary testing compliance
- ✔ Increased Action Plan Compliance
- ✔ Improved asthma control status in our population



APPLICATION INTERFACE

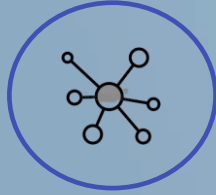


PROGRAM WORKFLOW



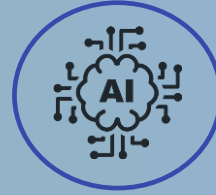
APPLICATION FEATURES

Disease Distribution



Active patients
Demographics

Risk Profiling & Scoring



ED visits
IP admissions
Oral Steroids

Actionable Insights with Deficiency viewer



Visit compliance
Control assessment
Spirometry
Action plan

Control Status Distribution



Control status in past 6 months

Trends



Facility utilization

Future appointment Insights



Future appointments with patient risk scores

PROGRAM OUTCOMES

PILOT IMPLEMENTATION



Increased % of Visit Compliance **30%**

Increased control assessments **40%**

Increased Pulmonary testing **20%**

Increased Action plan Compliance **30%**

Improved control status **10%**





of Asthma patients managed according to their best practice guidelines.

<https://vimeo.com/820899480/45ca95576d>



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THANK YOU

