

Integrated Care Initiatives and Its Effectiveness - The Disease-specific Care Certification Experiences

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QUALITY, WE TOGETHER!

攜手共進，追求品質



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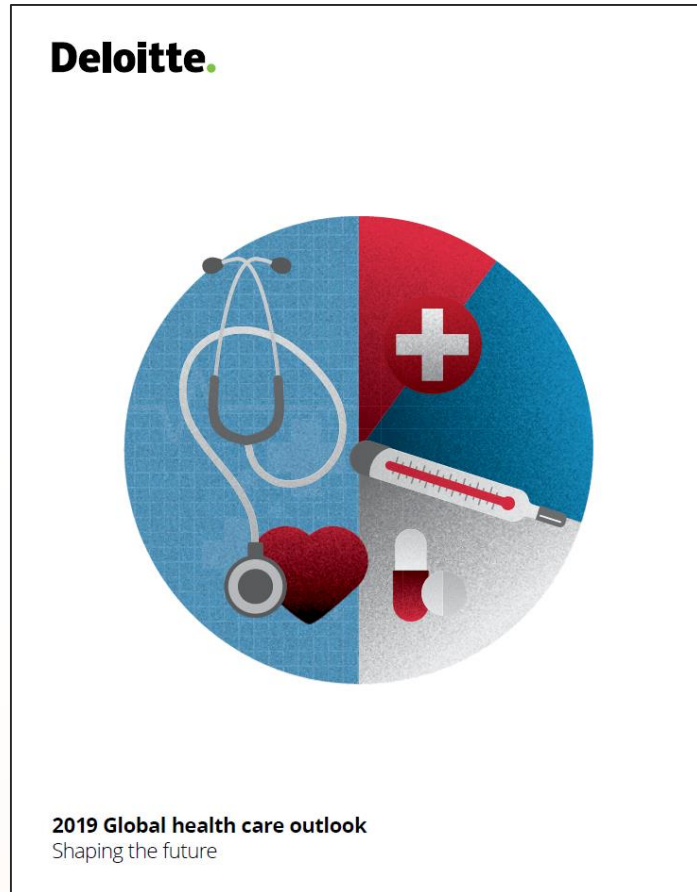
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Future



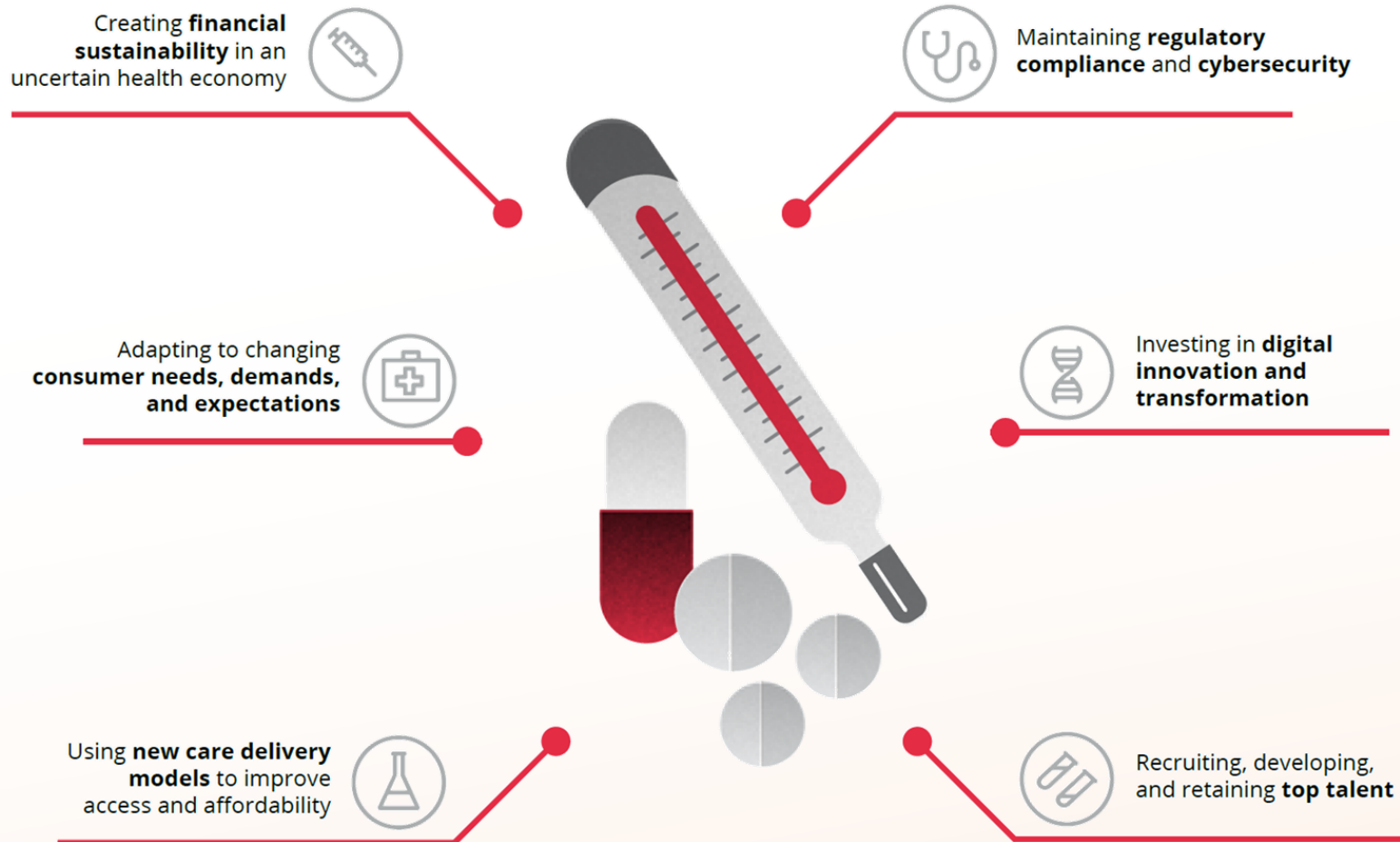
Trend in Global Healthcare

Global Healthcare



- **Global health care spending** is projected to increase at an annual rate of **5.4% in 2018-2022**, a considerable rise from 2.9% in 2013-2017.
- **Life expectancy** appears to continue to climb. It is projected to increase from 73.5 years in 2018 to **74.4 in 2022**.
- Bringing the number of people **aged over 65** globally to **more than 668 million**, or **11.6% of the total global population**.

Trend in Global Healthcare



Population Health Problem

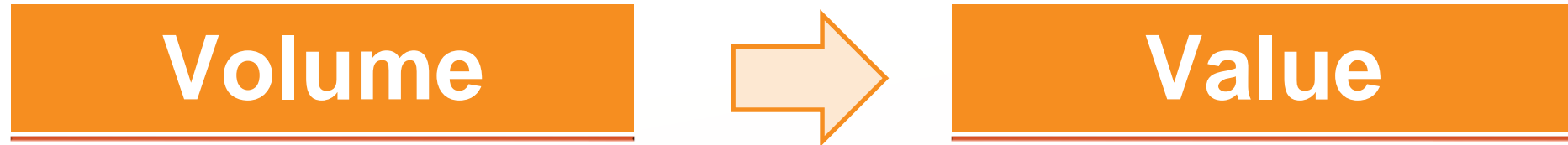
Aging population



Multiple
comorbidities

Rise in medical
expenditure

Payment System Problem



The shift to “value of healthcare” is the centerpiece of our strategy.

The Need for Integrated Care

01

Healthcare services
are fragmented, no
continuity

02

Need for multi-
discipline integration

Care process needs
standardization

03



Necessity for Integrated Care

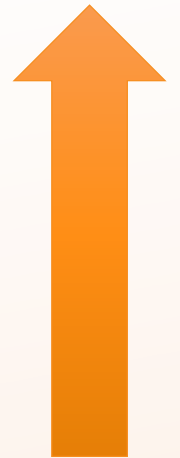
Definition of Integrated Care



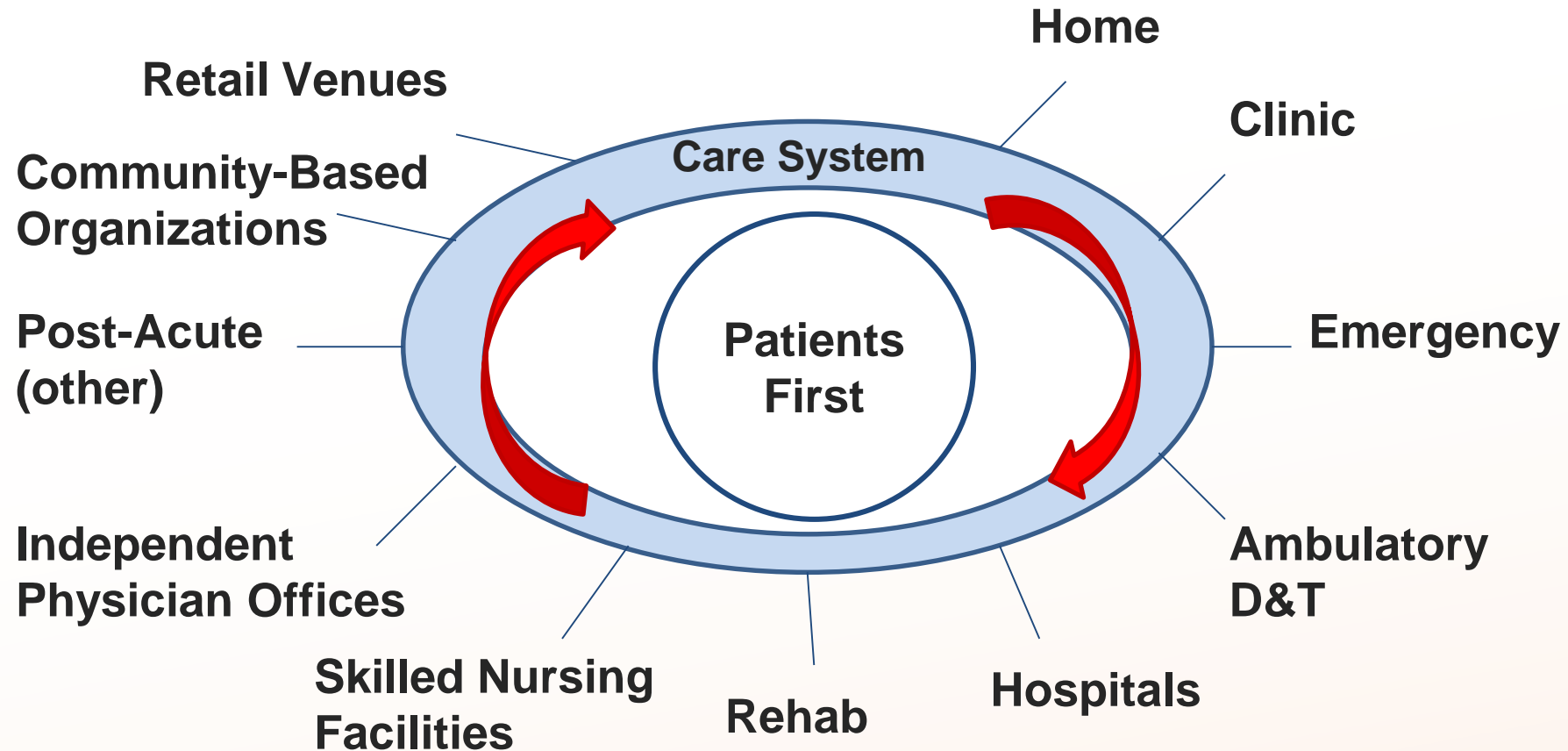
- Alignment and collaboration
- A set of interconnecting processes



- Quality of care
- Quality of life
- Consumer satisfaction
- System efficiency
- Outcome experienced



Ideal Model of Integrated Care



Target Diseases

Chronic diseases

High-risk diseases

NEED

Severe complications illness

Teamwork

Case management

Self-management support

Disease-specific Care in Taiwan- An Integrated Care Model



Disease-Specific Care (DSC)



Launched in 2009

Forward-thinking,
paradigm-shifted care
process, better choice
for the public

Enhance public
awareness of individual
hospital competency

Standard level of
excellent care



Self pay,
voluntary
involvement

Patient-centered
approach

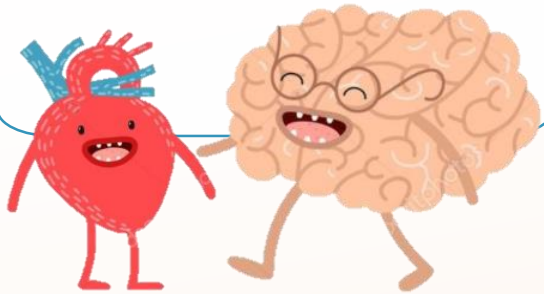
Multi-discipline,
continuous care



History of Taiwan DSC

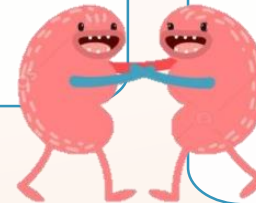
2009

- Coronary Artery Disease
- Acute Coronary Syndrome
- Acute Myocardial Infarction



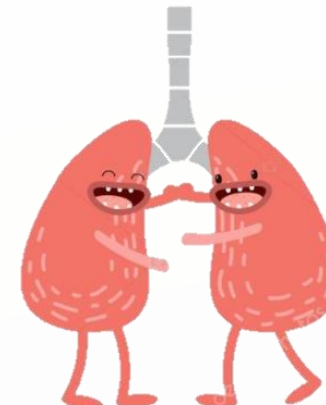
2017

- Heart Failure
- Kidney Disease
- Diabetes Mellitus
- Cerebrovascular Accident
- Chronic Obstructive Pulmonary Disease



2018

- Joint Replacement
- Asthma
- Pain Management
- Traumatic Brain Injury



Rationale

■ Taiwan

- Healthcare services are fragmented, no continuity
- Aging population: aged society in 2018, super-aged society in 2026
- Multiple comorbidities
- Need for multi-discipline integration
- Care process needs standardization



Focuses of Taiwan DSC

- Clinical excellence
- Guideline adherence , continuous care plan
- Multi-discipline team, holistic care
- Case management
- New technology, SDM
- Patient satisfaction
- Quality of life
- Improve cost-effectiveness



Participants

Total 111 teams

Central Taiwan

CAD, ACS, HF	7
Kidney disease	3
DM	3
CVA	3
COPD	2
Pain	1
Joint	1
Asthma	1

Northern Taiwan

CAD, ACS	3
Kidney disease	2

Taipei area

CAD, ACS, AMI, HF	16
Kidney disease	11
DM	7
CVA	7
COPD	7
Pain	2
Joint	3
Asthma	1
TBI	3

Southern Taiwan

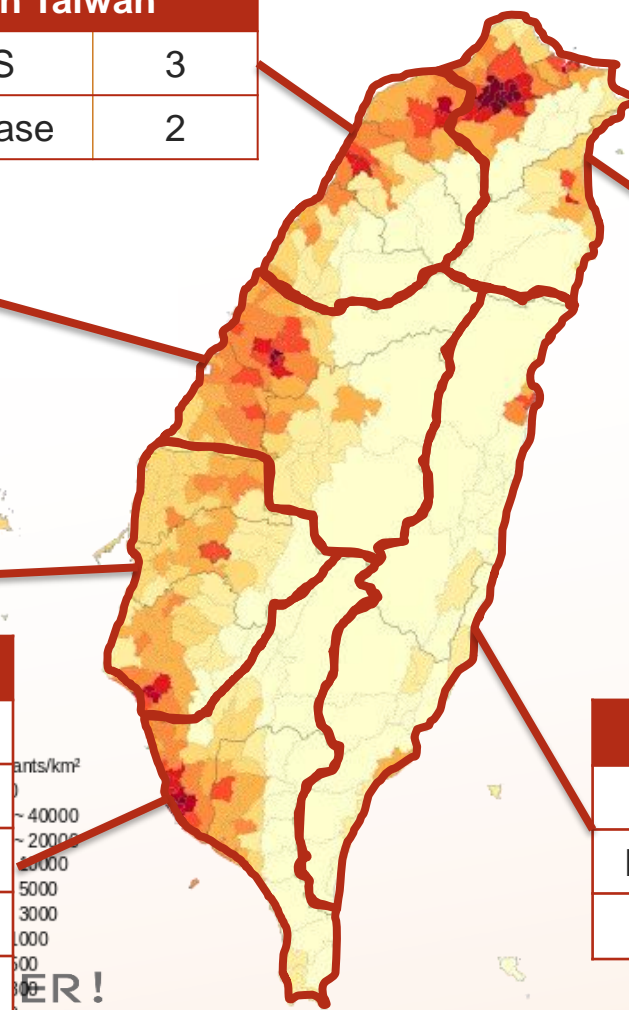
CAD, ACS, HF	5
Kidney disease	2
DM	2
CVA	2
COPD	1
Pain	1
TBI	2

Kaohsiung-Pingtung area

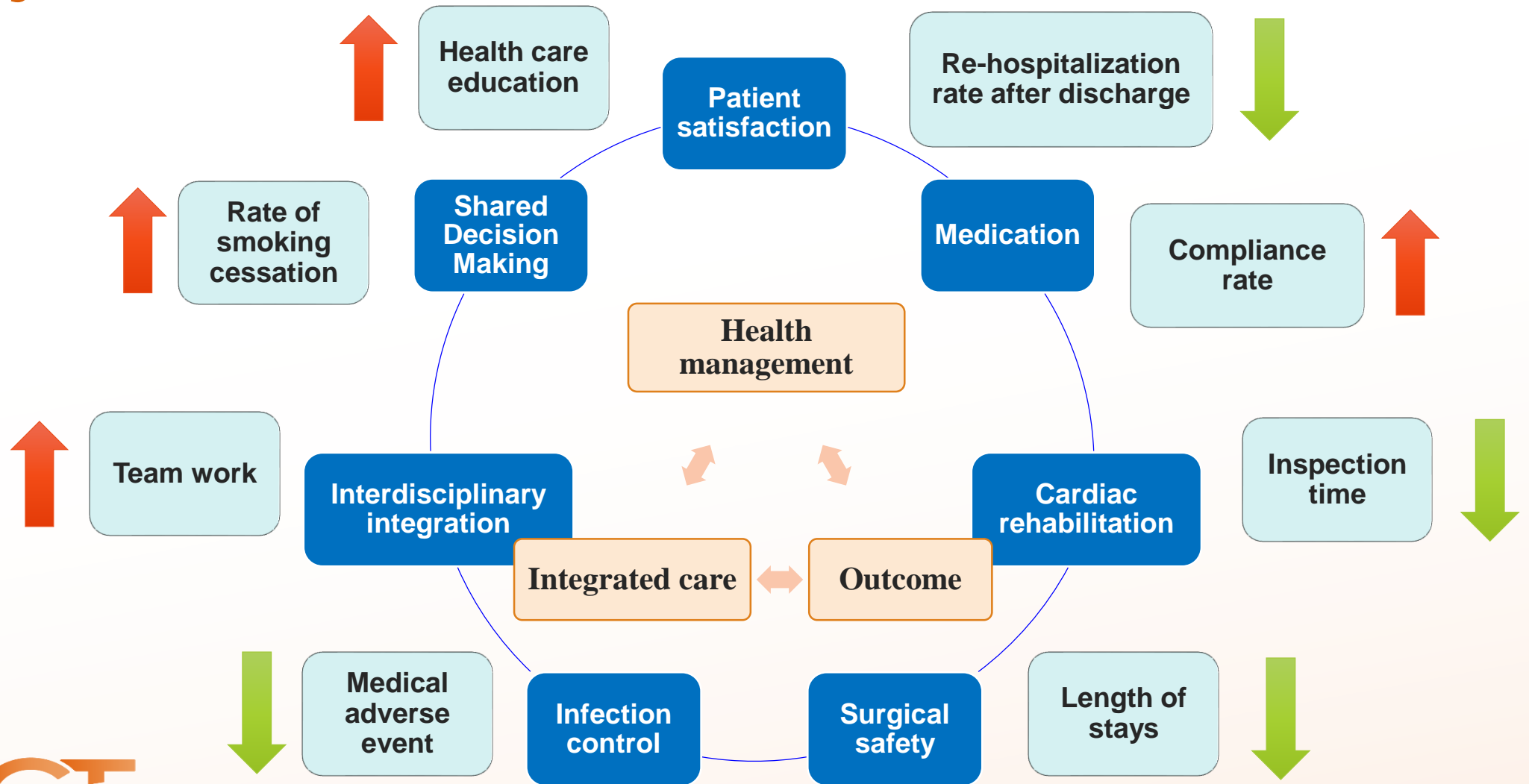
CAD, HF	3
DM	1
CVA	2
COPD	2
Joint	1
TBI	1

Eastern Taiwan

HF	1
Kidney disease	1
Joint	1



Major Outcome Performances



Comparisons of Outcomes



Cardiac -DSC VS. Non Cardiac -DSC

Clinical Outcomes

Emergency return rate
within 3 days after discharge

In hospital mortality

✓ Better than Non Cardiac-DSC
✓ Improved during certification

Care Process Performances

1 Use β -Blocker

2 Use Angiotensin converting
enzyme (ACE) inhibitor rate

3 Use Aspirin rate

4 Rate of Adenosine diphosphate (ADP)
receptor antagonist administered



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Source: Chao and Liao et al, 2019, in press.



Future

Feedback

- Team work
- Break silo
- Process standardization
- Use indicator
- Cost-effectiveness
- Improve value



Future

- Forward-thinking, paradigm-shifted care process, better choice for the public
- Integration
- Stabilize the progress of diseases
- National Health Insurance package payment



The road to improve
the medical quality is endless



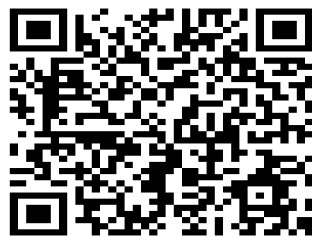


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