

# Introducing the South Dakota Quality Improvement Toolkit

A RESOURCE FOR QUALITY IMPROVEMENT IN SOUTH DAKOTA

#### South Dakota Cardiovascular Collaborative

State Strategic Plan 2017-2021

Download the entire South Dakota Cardiovascular Collaborative Strategic Plan at doh.sd.gov/diseases/chronic/heartdisease

Vision: Healthy people, Healthy communities, Healthy South Dakota

Mission: Improve quality of life of all South Dakotans through prevention and control of heart disease and stroke

#### Goals

#### I. IMPROVE DATA COLLECTION

Drive policy and population outcomes through improved data collection and analysis for heart disease and stroke.

#### **II. PRIORITY POPULATIONS**

Address prevention and treatment needs of priority populations in South Dakota for heart disease and stroke.

#### III. CONTINUUM OF CARE

Coordinate and improve continuum of care for heart disease and stroke.

#### IV. PREVENTION & MANAGEMENT

Progress: 4.9% (2017)

Enhance prevention and management of hear disease and stroke

#### **Objectives**

- Identify and track data to support at least one heart disease and stroke policy change or recommendation by 2021.<sup>1</sup> In Process\*
- Increase input into at least 4 data collection tools by organizations and/or individuals by 10% by 2021.<sup>2</sup> In Process\*
- \*Integrated across other goal areas

- Decrease the age-adjusted death rate due to heart disease in the American Indian population from 212.5 per 100,000 to 202.0 per 100,000 by 2021.3 Progress: 241.4 per 100.000 (2017)
- Decrease the age-adjusted death rate due to stroke in the American Indian population from 48.5 per 100,000 to 46 per 100,000 by 2021.<sup>3</sup> Progress: 48.2 per 100,000 (2017)
- Decrease emergency response times by decreasing average ambulance chute times from 5.23 minutes in 2018 to 4.25 minutes by 2021.<sup>4</sup>

  Progress: 5.23 mins (2018)
- Increase the number of EMTs in South Dakota from 3,281 EMTs in 2016 to 3,850 EMTs by 2021.<sup>4</sup> Progress: 3,301 EMTs (2018)
- Identify and designate 5 cardiac ready communities by 2021. Progress: 1 community pursuing designation (2019)

- 1. Decrease prevalence of heart attack from 4.7% (2015) to 4.45% (5% decrease) by 2021.<sup>5</sup>
- Decrease prevalence of stroke from 2.6% (2015) to 2.47% (5% decrease) by 2021.<sup>5</sup>
   Progress: 2.7% (2017)

#### **Strategies**

- A. Identify and promote tracking of a common set of minimum cardiovascular health data for use for both prevention and improvement of post-cardiac event outcomes.
- A. Promote the different models of team-based, patient-centered care (health cooperative clinic, health homes, PCMH).
- B. Maximize community-clinical linkages (e.g. CHW, different sectors).
- C. Support policies that increase access to heart disease and stroke care for priority populations.
- D. Improve collaboration with tribal communities.

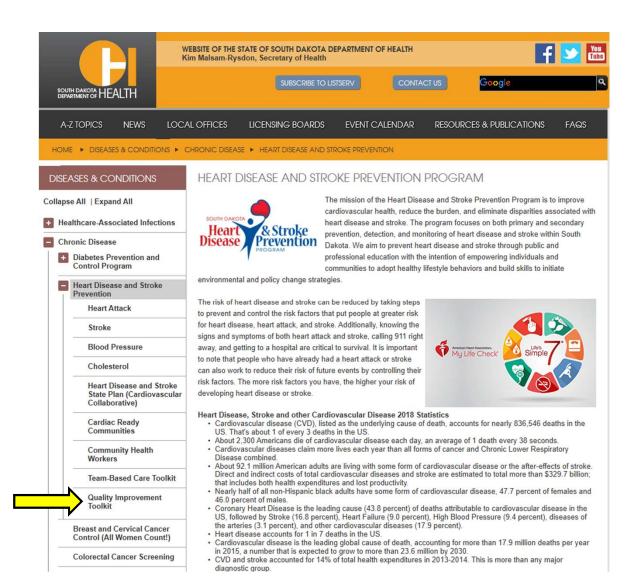
- A. Utilize results of needs assessment to address infrastructure and sustainability of EMS.
- B. Ensure utilization and sustainability of communitybased resources and programs such as Mission: Lifeline, LUCAS, and pit-crew CPR for EMS services.
- C. Identify and expand mobile integrated health programs.
- D. Promote the cardiac ready community program to South Dakota communities ensuring at minimum 5 are enrolled in the program.

- A. Encourage the implementation of quality improvement processes in health systems.
- B. Promote awareness, detection and management of high blood pressure (clinical innovations, team-based care, and self-monitoring of blood pressure).
- C. Support the expansion of prevention and lifestyle interventions in communities and for all ages across the lifespan.

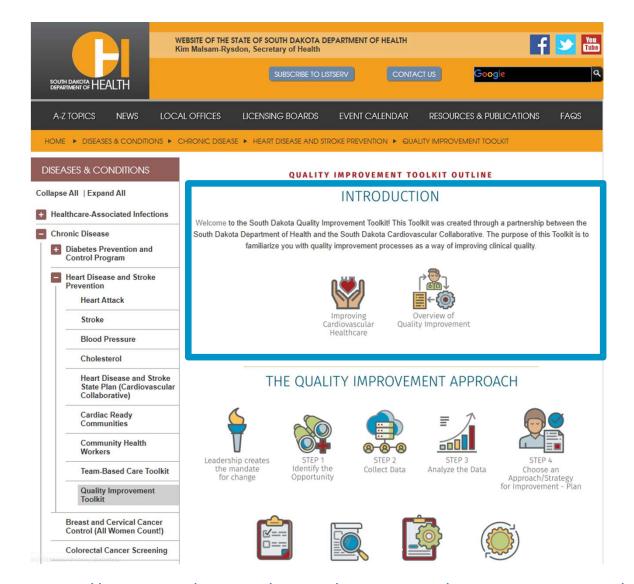
https://doh.sd.gov/diseases/chronic/heartdisease/state-plan.aspx

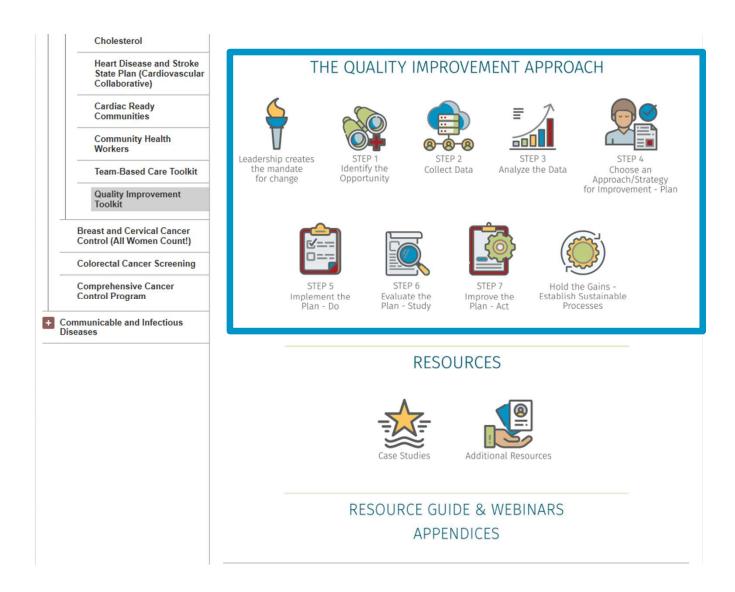
### Quality Improvement Toolkit





https://doh.sd.gov/diseases/chronic/heartdisease/







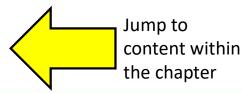


### OVERVIEW OF QUALITY IMPROVEMENT





- What is Quality Improvement?
- What is the Difference Between QI and QA?
- The Quality Improvement Approach
- RESOURCES



#### What is Quality Improvement?

Quality improvement, or QI (also known as continuous quality improvement, quality management), is an organizational approach to managing and improving the systems that support the work of an organization. It focuses on creating system-level changes so that the organization's work meets or exceeds the needs and expectations of everyone who depends on that work.

Process and system thinking is critical to QI. All work of any kind is regarded as a process; a series of related activities or tasks aimed at producing a particular outcome. Everything that we do in health care involves processes, whether they are the defined steps in making an appointment or the multiple steps in managing the more complex needs of a person with cardiovascular disease.

QI is all about continuous improvement, a never-ending quest to improve processes by identifying root causes of problems. Process improvement involves making gradual improvements in everyday processes to reduce variation and redundancies, improve quality of services, and increase customer satisfaction.

#### What is the Difference Between OI and OA?

There is often confusion about the difference between Quality Improvement (QI) and Quality Assurance (QA).

Here are some distinguishing factors:

Overview of Quality Improvement

https://doh.sd.gov/diseases/chronic/heartdisease/QualityImprovement/1-3\_Introduction\_Overview\_QI.pdf



#### Suggested First Meeting Activity Details

#### 1. Introduce team members and roles, review agenda, and set ground rules

- Assign a recorder/scribe and a timekeeper for the meeting. Team members may choose to rotate these tasks from
  one meeting to the next.
- · Review the agenda and describe the purpose and objectives of Step 1.
- Make introductions and outline team member roles. It is important that everyone knows who is in the room and why
  they have been invited to participate.
- Describe the team's reason for existence and what they are expected to accomplish.
- Set meeting ground rules and determine how you will make decisions as a group. This is an important task at the beginning so that everyone understands the expectations. See **Appendix A** and the Resources section for more information.

#### 2. Describe the Aim statement and seek consensus

- This is a critical step and it is important to take the time to clearly define your Aim statement.
- In developing your Aim statement you should consider these three questions:
  - What are we trying to accomplish?
  - How will we know that a change is an improvement?
  - What change can we make that will result in improvement?
- It will be important that the Aim is measurable with a
  defined time frame. It is also important to identify how
  it will be measured and how you will know when you
  have achieved it. Consider using the SMART goal format
  when developing an aim statement. See Appendix B for
  more information.

Jump to Appendix with information related to the content

TIP: The Institute of Healthcare Improvement (IHI) uses a model developed by the Associates for Process Improvement (API):

http://www.apiweb.org.

While IHI and API both emphasize the importance of this step, they agree that it is not critical to get it perfect right away, or even to go in the order they are listed here.

Your final Aim statement should be based on data, so the Aim statement may change as you learn more about the
process. It will be important to continually check in with the team and with the Project Sponsor to obtain consensus
on any changes that are made. Use the data as part of your justification for the change.

https://doh.sd.gov/diseases/chronic/heartdisease/QualityImprovement/2-2\_QIApproach\_Step1\_IdentifyOpportunity.pdf



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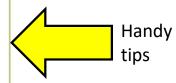
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#### **ACCELERATED OI OPTION**

Step 5 is where the alternative rapid approach differs from the more methodical steps to quality improvement. It avoids planning an entire multi-component process in great detail before implementation. Instead, it relies on a more incremental approach.

To accelerate Step 5, simple changes from the overall improvement design from Step 4 are tried out on a trial basis, one at a time. Each trial includes simple measurements to evaluate its success. For the process you want to test out, such as the information Summary, you will need at least one provider and care team to agree to test it out. They will need to provide you feedback on how the process went, including an approximate amount of time it took to complete the tasks. If tests and improvements are made in rapid succession, you can more rapidly get to your goal with something that can be implemented system-wide. For many processes, this should only take weeks rather than months.

#### The keys to this accelerated approach involve four principal activities:

- Plan small strategies that can be tested within a week's time. Be sure each change is compatible with the
  overall improvement plan, and that each trial would help to answer concerns about the new process. Ask one
  or two people to undertake the week-long test and provide them with the instructions, information, and tools
  they will need. Carefully choose a few measurements to evaluate the trial. Make sure the data will be simple
  to collect.
- Try one or more changes on just a small number of cases (usually 5-10).
- 3. Evaluate the results of the trials.
- If the trial is successful, refine the process to prepare it for full implementation (which will happen in Step 6).

Rethink those strategies that did not work well and make the necessary improvements.

#### RESOURCES

#### Plan-Do-Study-Act Cycle

#### Plan-Do-Study-Act (PDSA) Worksheet

From the Institute for Healthcare Improvement

http://www.ihi.org/resources/Pages/Tools/PlanDoStudvActWorksheet.aspx

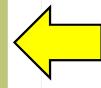
This page describes the PDSA cycle and provides a worksheet to document a test of change. Brief videos explaining PDSA cycles are also available on the page.

#### Science of Improvement: Testing the Changes

From the Institute for Healthcare Improvement

http://www.ihi.org/resources/Pages/HowtoImprove/ScienceofImprovementTestingChanges.aspx

This page describes the Science of Improvement: Testing the Changes.



Accelerated QI
Option for teams
who already have
experience in Quality
Improvement

https://doh.sd.gov/diseases/chronic/heartdisease/QualityImprovement/2-6\_QIApproach\_Step5\_ImplementPlan.pdf



## Thank You Case Study Participants!

Melissa Gale and Heather Bowar at Avera St. Benedict Health Center

Sandra Ruesch and Karen Weber at Brookings Health System

Sandy Josko, Susanne Parks, Elliot Nelson, Sarah Johnson, Bridget O'Brien, and Jill Swanson at Sanford Health – Sioux Falls Region

Nancy McDonald at Great Plains Quality Innovation Network

### Quality Improvement Webinar Series

#### The Value Case for Initiating Quality Improvement (QI)

This webinar gives an overview of how payers perceive quality improvement (QI) efforts and how it impacts reimbursements. It also discusses the importance of different QI initiatives and how QI can impact the bottom line for organizations fiscally. The webinar is presented by Kathi Mueller from the South Dakota Department of Social Services and Dr. Preston Renshaw, Chief Medical Officer for Avera Health Plans and Dakotacare.

#### **Telling the Quality Improvement (QI) Story**

This webinar discusses the basics of QI, what it is and how it is used. It also discusses quality improvement and its impact on population health. The webinar is presented by Holly Arends from the South Dakota Foundation for Medical Care and Patti Brooks from Avera Health Plans.

#### **Implementing Quality Improvement in Rural Areas**

This webinar allows us to hear from practitioners in the field as we present case studies of how quality improvement has been used in rural settings, examining the successes and challenges.

### Contact information



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