

Table 1: CDC science beyond citations – Examples of key indicators*

Degree of Impact	Potential Measureable Indicators
Disseminating Science	<ul style="list-style-type: none"> • Scientific publications (open access journals) • Trade publications • Professional meetings/conferences • General communication (social media, web, print) • Presentations • Training, coursework • Other scientific output (e.g., CDC Public Health Grand Rounds, Vital Signs, Science Clips)
Creating Awareness	<ul style="list-style-type: none"> • Continuing Education (CME, CEU) • Awards • Stakeholder resources, curriculum, training • Feedback (Survey, focus groups, anecdote) • Information sharing and communications among professional societies • Electronic communications (information shared on listservs and other electronic resources, social media, news coverage) • Queries • Requests to contribute to efforts that further the science output
Catalyzing Action	<ul style="list-style-type: none"> • Technology creation • New funding (pilots/research) • Advocacy groups/NGOs • Congressional hearings • Partnerships and collaborations • Research & Development • Office practice/point of care changes
Effecting Change	<ul style="list-style-type: none"> • Building public health capacity (e.g., workforce development, funded research, improved staff competency) • Creation of registries/surveillance • Legal/policy changes • Accreditation • Cultural/social change • Behavioral change • Economic change <ul style="list-style-type: none"> • CMS reimbursement • Other payer actions • Change instilled <ul style="list-style-type: none"> • (New) formal guidelines and recommendations (e.g., WHO) • Hospital standards • Funding • Anecdotes/case studies • Sustainable and scalable science translation
Shaping the Future	<ul style="list-style-type: none"> • New hypotheses/Continuous Quality Improvement • Implementation of public health programs/initiatives • Health outcomes** <ul style="list-style-type: none"> • Prevalence and incidence • Morbidity and mortality (e.g., frequency of outbreaks, trends) • Life expectancy • Quality of Life improvements • Reductions in economic burden

*The degree of impact is not necessarily a progression; therefore, events captured may not be reflected at every domain

** Health outcomes is the ultimate goal - driven by the 5 domains of impact