

Binomial Confidence Interval (Proportion)		
General Health Improvement		
User defined parameters		
Sample Size (n)	143	
Number Defective(x)	119	
Confidence Level	99.00%	
Confidence Level		
Lower Limit	< p <	Upper Limit
0.751668528	0.832167832	0.912667136

Quality Validation: We are 99% confident that the number of participants who will experience health improvements among any 143 participants will be between 108 to 131.

Binomial Confidence Interval (Proportion)		
Reduction in Prescription Medicine		
User defined parameters		
Sample Size (n)	121	
Number Defective(x)	30	
Confidence Level	99.00%	
Confidence Level		
Lower Limit	< p <	Upper Limit
0.146817776	0.247933884	0.349049993

Quality Validation: We are 99% confident that the number of participants among any 121 participants who are taking medicine, 18 to 42 participants will experience reduction in prescription medicine.

SIX SIGMA Trainings by Human Endeavour. We offer six sigma trainings that will help to improve your processes and increase organizational efficiency and performance.

If you need information to replicate HOPE in your area or want to know more about the healthy outcome measurements, please contact Human Endeavour at 416-726-3252 or email at info@humanendeavour.org or visit www.humanendeavour.org

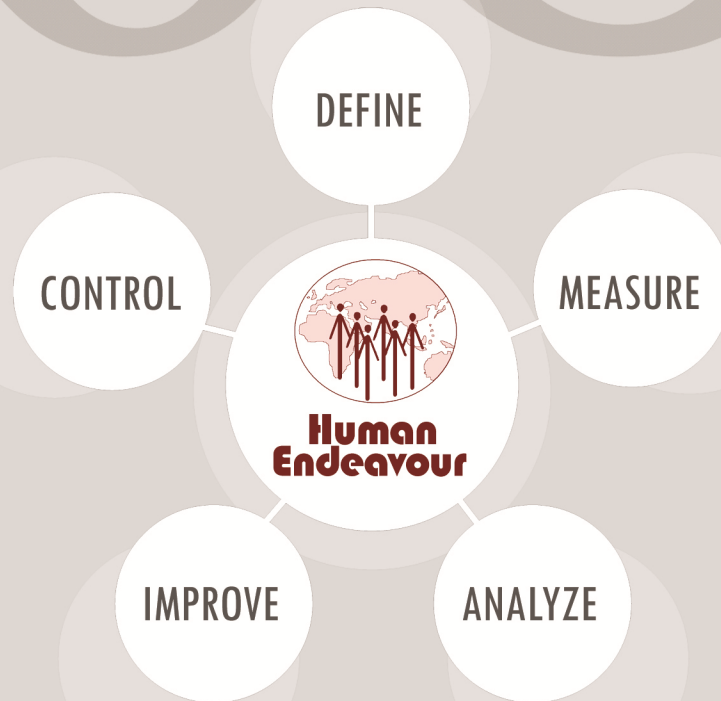
HOPE QUALITY VALIDATION PARTNERS



Central LHIN, Michael DiBiase Foundation

HOPE

QUALITY VALIDATION THROUGH SIX SIGMA



**HOPE IS 2010 INNOVATION AWARD RECIPIENT
IN EVIDENCE BASED PRACTICE**
FROM THE ONTARIO MINISTRY OF HEALTH AND LONG-TERM CARE &
ONTARIO HOSPITAL ASSOCIATION

HUMAN ENDEAVOUR

INTRODUCTION

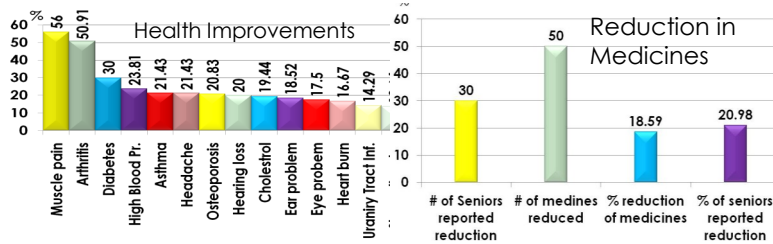
HOPE - Healthy Outcomes of Preventive Engagements is a research initiative that measures the quantitative & qualitative healthy outcomes in physical and mental health as a result of innovative preventive engagements that have been implemented for 603+ South Asian seniors in Central LHIN (York Region) at 5 location over the last 6 years.

Prevention strategies have demonstrated a direct relationship in specific health improvements, reducing emergency department visits, hospitalization & readmissions. HOPE conducted surveys, one-on-one interviews and the results demonstrate the success of participation in healthy activities, especially in group settings.

HOPE RESULTS (selected)

A total of 143 random surveys were conducted to learn about seniors' physical health and improvements

- 93% seniors became more aware about their health
- 83% seniors' health improved due to these engagements



BACKGROUND HOPE QUALITY VALIDATION

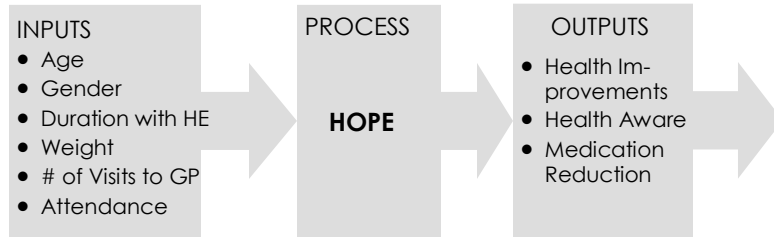
After winning the Innovation Award in Evidence Based Practices category, the next step was to ensure quality validations of 2010 quantitative results by using Six Sigma techniques or other statistical & scientific methods.

WHAT IS SIX SIGMA?

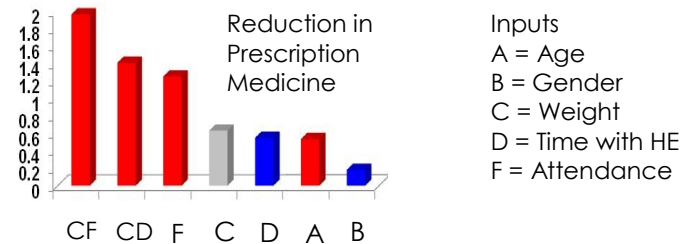
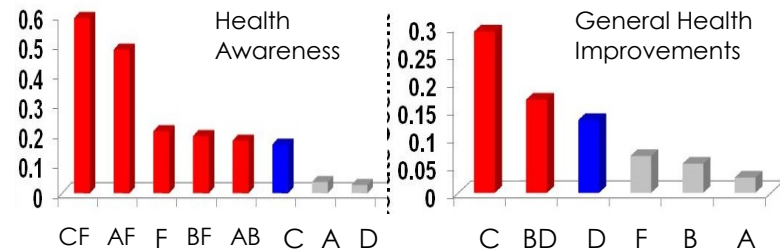
The term "Sigma" is a *measurement* of how far a given process deviates from perfection – a measure of number of "defects". "Six Sigma" implies near zero defects (unwanted consequences).

"A *quality improvement methodology* that applies statistics to measure and reduce variation in processes."

SIX SIGMA APPLICATION TO HOPE PROCESS



HEALTH IMPROVEMENT RELATIONSHIPS



SIX SIGMA CONFIDENCE LEVELS OF HOPE RESULTS

Binomial Confidence Interval (Proportion)		
For Health Awareness		
User defined parameters		
Sample Size (n)	143	
Number Defective(x) (HOPE RESULTS)	132	
Confidence Level	99.00%	
Confidence Level		
Lower Limit	< p <	Upper Limit
0.86567898	0.923076923	0.980474866

Quality Validation: We are 99% confident that the number of participants who will be more health aware among any 143 participants will be between 124 to 140.