



THE WORLD BANK



Evaluating Impact: Turning Promises into Evidence

Prevention of massive noncommunicable diseases program

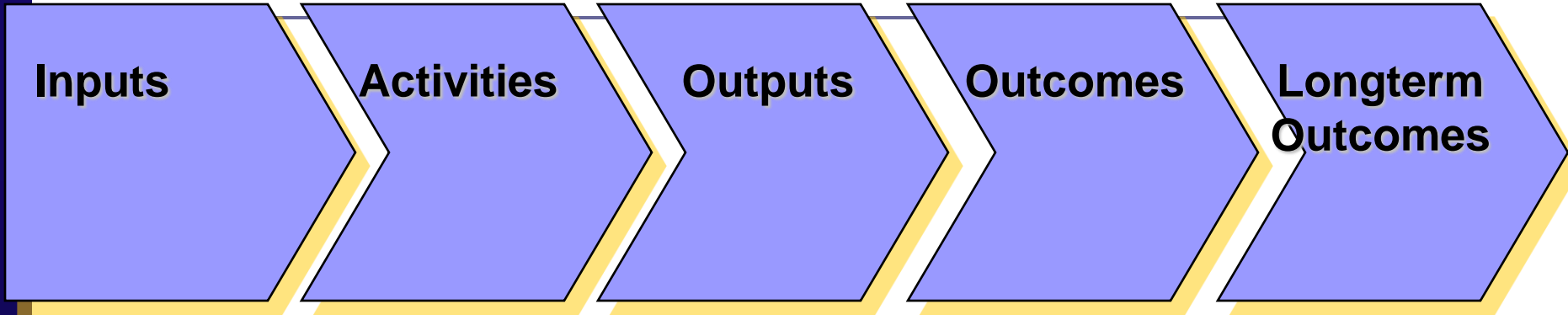
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Sarajevo, Bosnia and Herzegovina
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1. Background

- ❑ A regular health survey showed high number of smokers
- ❑ Health statistics shows increasing number of smokers as well as mortality caused by non communicable diseases
- ❑ Health Insurance Fund reports increased payments for health services for treating stroke, diabetes type 2 complications, hypertension and hearth failure
- ❑ An urgent action is needed!

2. Results Chain



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3. Primary Research Questions

1. Did training resulted that GPs provide standardised preventive health service using clinical guidelines (check patients' blood pressure, smoking habits, BMI at the first visit and follow up identified risk patient)?
2. Did the training resulted with increased number of preventive examinations?
3. Did the training resulted with change of health behaviour of targeted population (in targeted risk factors)?
4. Did the training result with fewer number of (a) strokes, (b) complications of diabetes type 2, (c) hypertension and (d) hearth attack?

4. Outcome indicators

Question 1

- Indicator: Percentage of visits where procedures are indicated where GPs use clinical guidelines for preventive screening

Question 2

- Indicator: Number of preventive medical exams performed by GPs

Question 3

- Indicator: Percentage of GPs' patients with improved health behaviour (measuring BMI, weight, glycerides, blood sugar)

4. Outcome Indicators

Question 4

- ❑ IMPACT: Improved health status of overall population: Selected diseases
 - Diabetes type 2 (target group)
 - ❑ Indicator: Number of complications of diabetes type 2 (diabetic foot, chronic renal failure)
 - Hypertension:
 - ❑ Indicator: Number of newly discovered cases in 19-45 population
 - ❑ Indicator: Number of patients with reduced hypertension after one year
 - Myocardial infarctus
 - ❑ Indicator: Number of patients that suffered myocardial infarctus
 - Stroke
 - ❑ Indicator: Number of smokers

5. Identification Strategy/Method

- Selection criteria of treated group
 - Random selection of 300 doctors
- Treatment group will be trained in sept 2009 to sept 2010
- Control group is 300
 - Is going to be trained in 2013-2014
- Media campaign covers the whole population

6. Sample and data

Question 1

Data source: medical file review and the Registry at Agency for Accreditation and Quality Assurance

Question 2

- Health Statistics at Statistics Institute and
- Preventive services reported Health Insurance Fund

Question 3

- Patients survey on health habits + BMI, weight, glycerides, blood sugar
 - Selection of patients: patients will be randomly selected for measuring. In addition surveyors will randomly check medical files
 - Who does it: external evaluation presented by Public Health Institute & Agency of Accreditation and Quality Control

7. Time Frame/Work Plan

□ Evaluation

- Starts 2009 – baseline
- First comparison 2010
- Second comparison 2011
- Patients survey

□ Intervention

- Starts 2009
- End 2015
- Training 300 GPs per cycle and lasts one year

8. Sources of Financing

- Health Insurance Fund
- World Bank
- WHO
- Budget of the state