Community Genogram:
An Innovation to Guide Health Promotion and Risk Reduction Interventions in Rural Thailand

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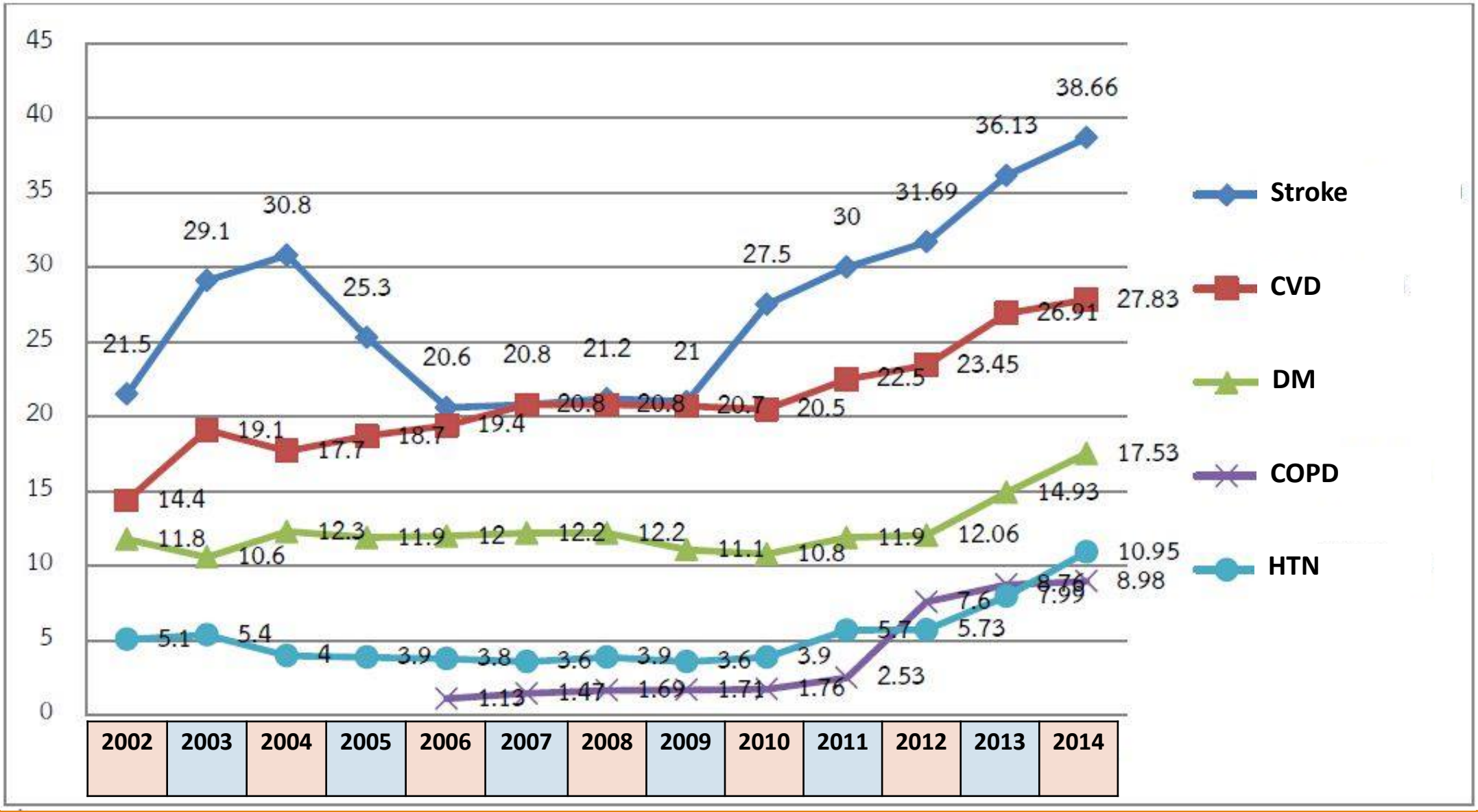
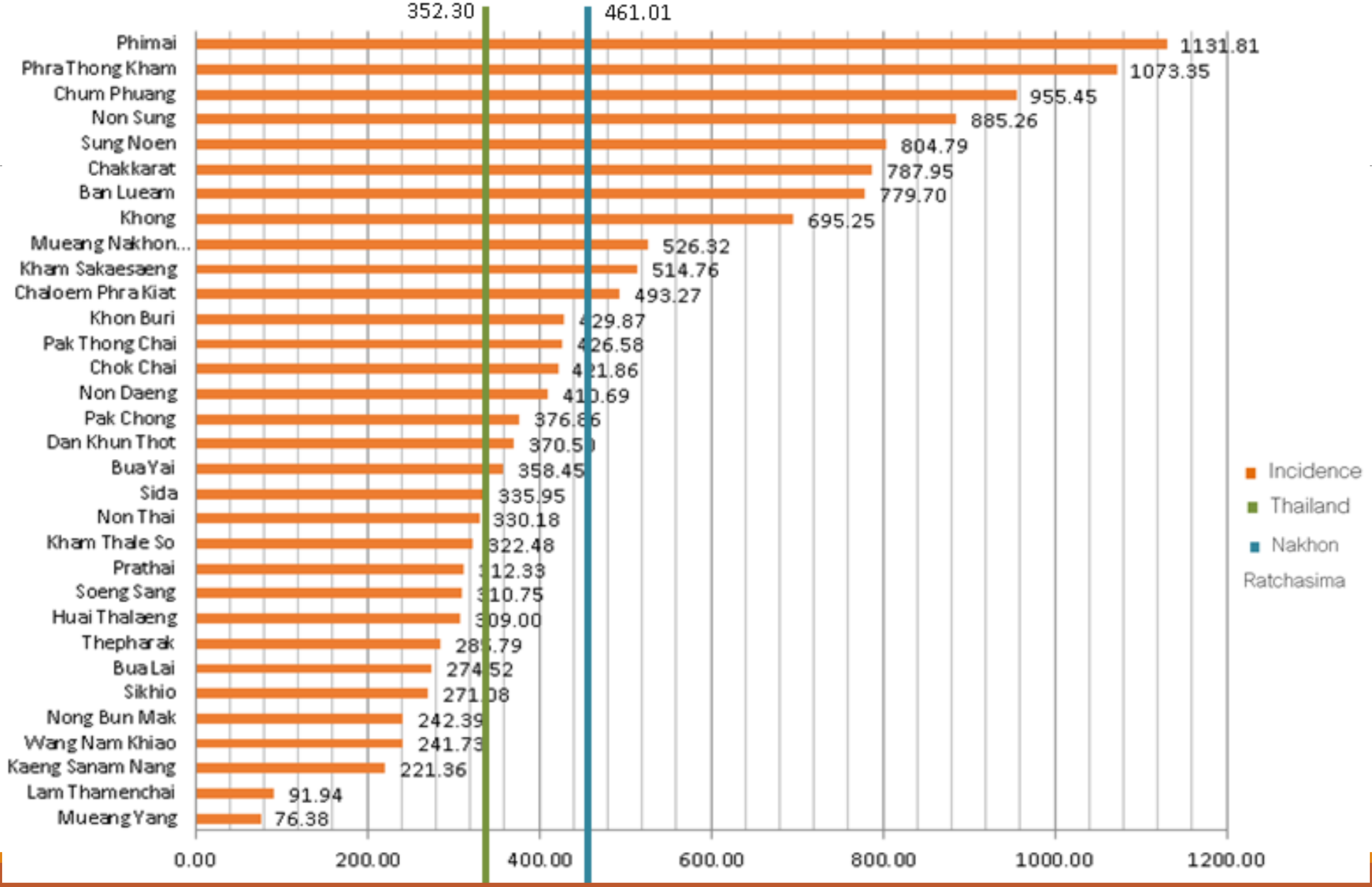
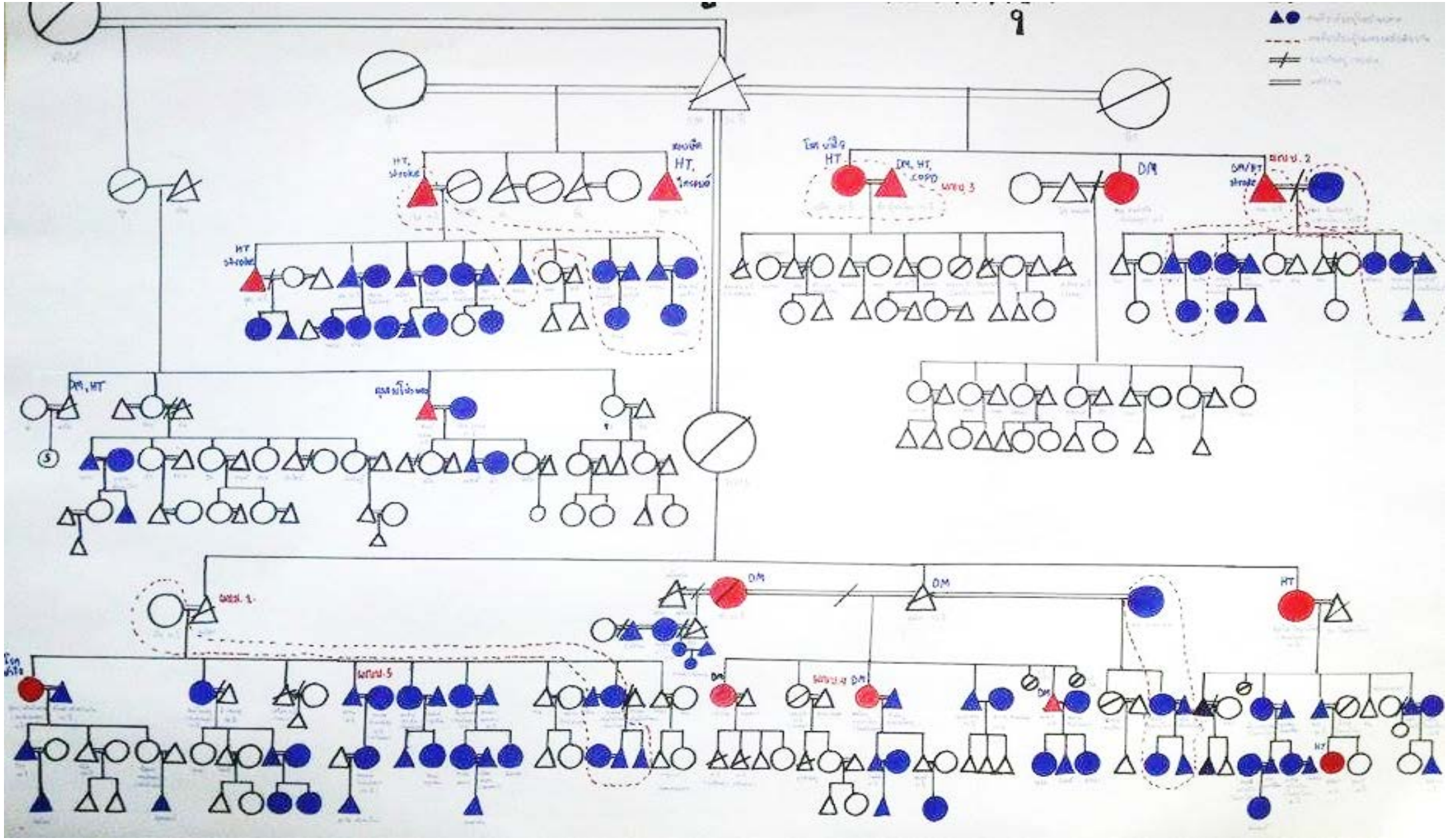
NCD Incidences in Thailand



Provincial Stroke Incidence per 100,000 Population, 2014



Source of data : Health Data Center system, the Permanent Secretary Ministry of Public Health


HT, stroke
HT, stroke
HT
stroke
DM, HT
DM
DM
HT

Study Aims and Setting:

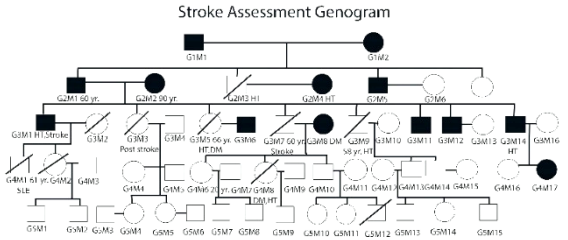
1. Study aims:

- To evaluate the usefulness of a genogram for its capacity to serve as an aid to better understand family structure and dynamics at a community level
- To guide community and individual health promotion and risk reduction interventions to prevent stroke and improve patient outcomes

2. Setting:

- A high-risk, underserved population
- Rural close-knit communities, Nakhon Ratchasima, Thailand.

Methods and Procedures



Informed Consent

Genogram
Assessment & Analysis

At Risk Individual, Family

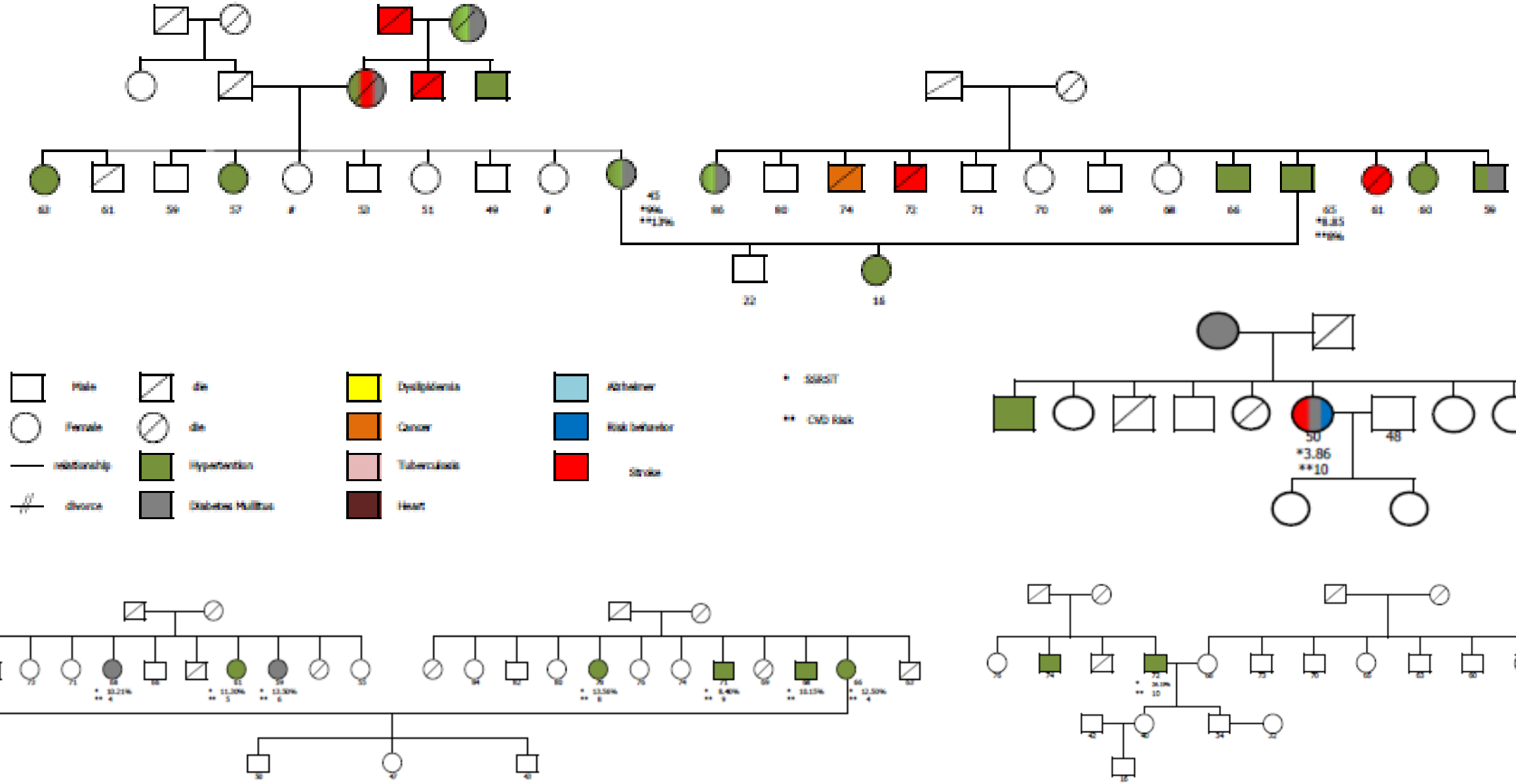
Diabetes, Hypertension, Stroke risks, CVD risk
Screening

Home-based, Community-based
Interventions

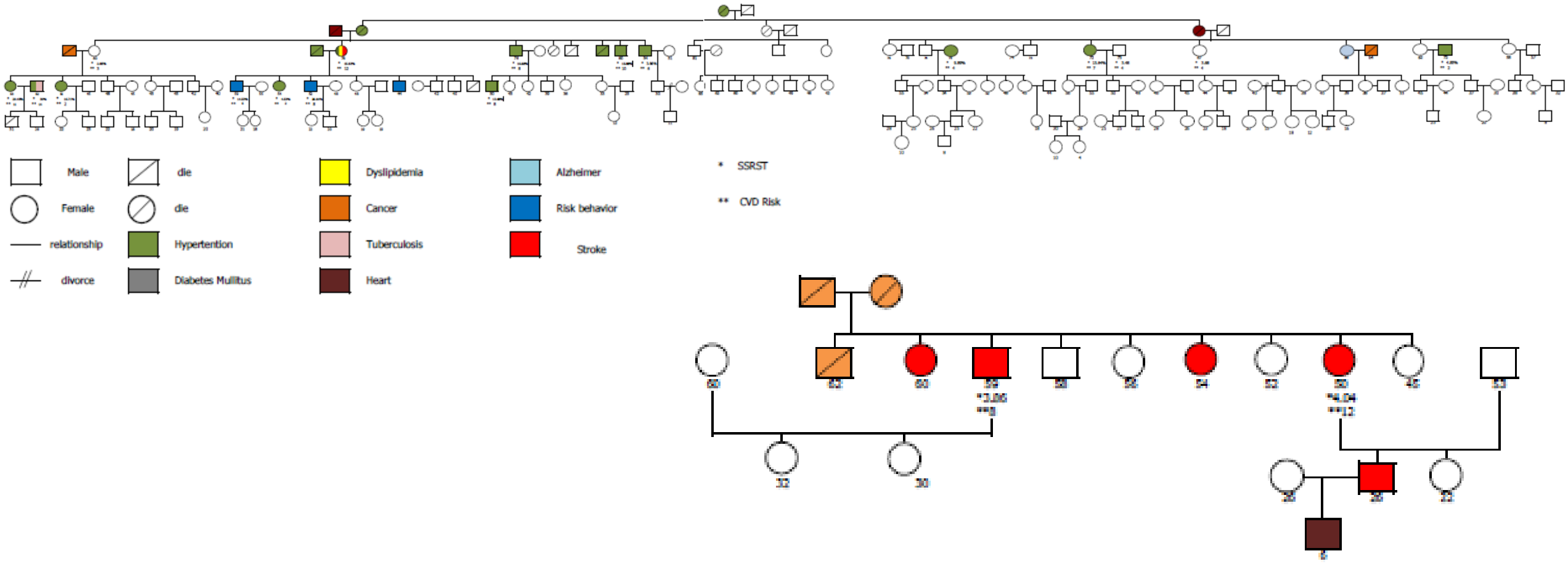
Outcome Evaluation
[Knowledge, Behaviors, Risk Level]

Design, Measurements, & Analysis

Design	**Mix-method** **Pre-test, post-test design**
Measurement	➢ **Genogram, Group discussion guideline** ➢ **Verbal NCD Screening** ➢ **CDV risk, SUT Stroke Risk Scale** ➢ **Questionnaire**
Analysis	**Descriptive,** **comparative, inferential statistics**

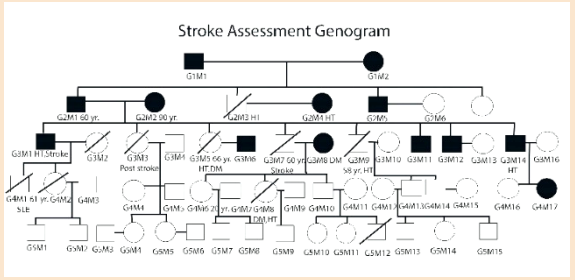

Male
die
Female
die
relationship
Hypertention
divorce
Diabetes Mulitus
Dyslipidemia
Cancer
Tuberculosis
Heart
Alzheimer
Risk behavior
Stroke
* SSRST
** CVD Risk
50
*3.86
**10
48

From Family Genograms to Community Genogram



Community-based Tailored Interventions

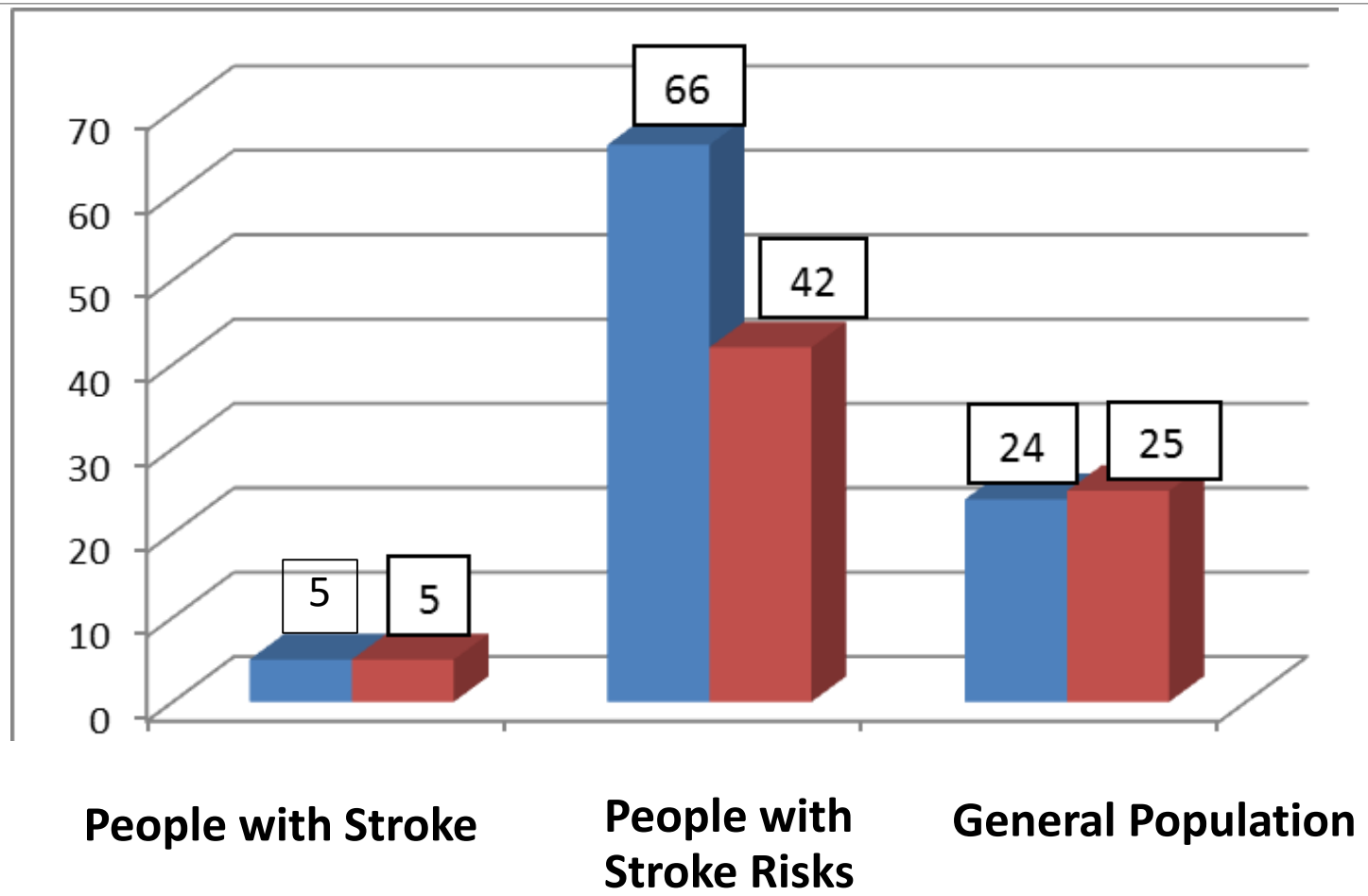
Results



- Visualizing risks through community genogram increased family and community awareness regarding NCD as well as other illnesses.

- The genogram facilitated the identification of key resource persons for disease control and prevention.

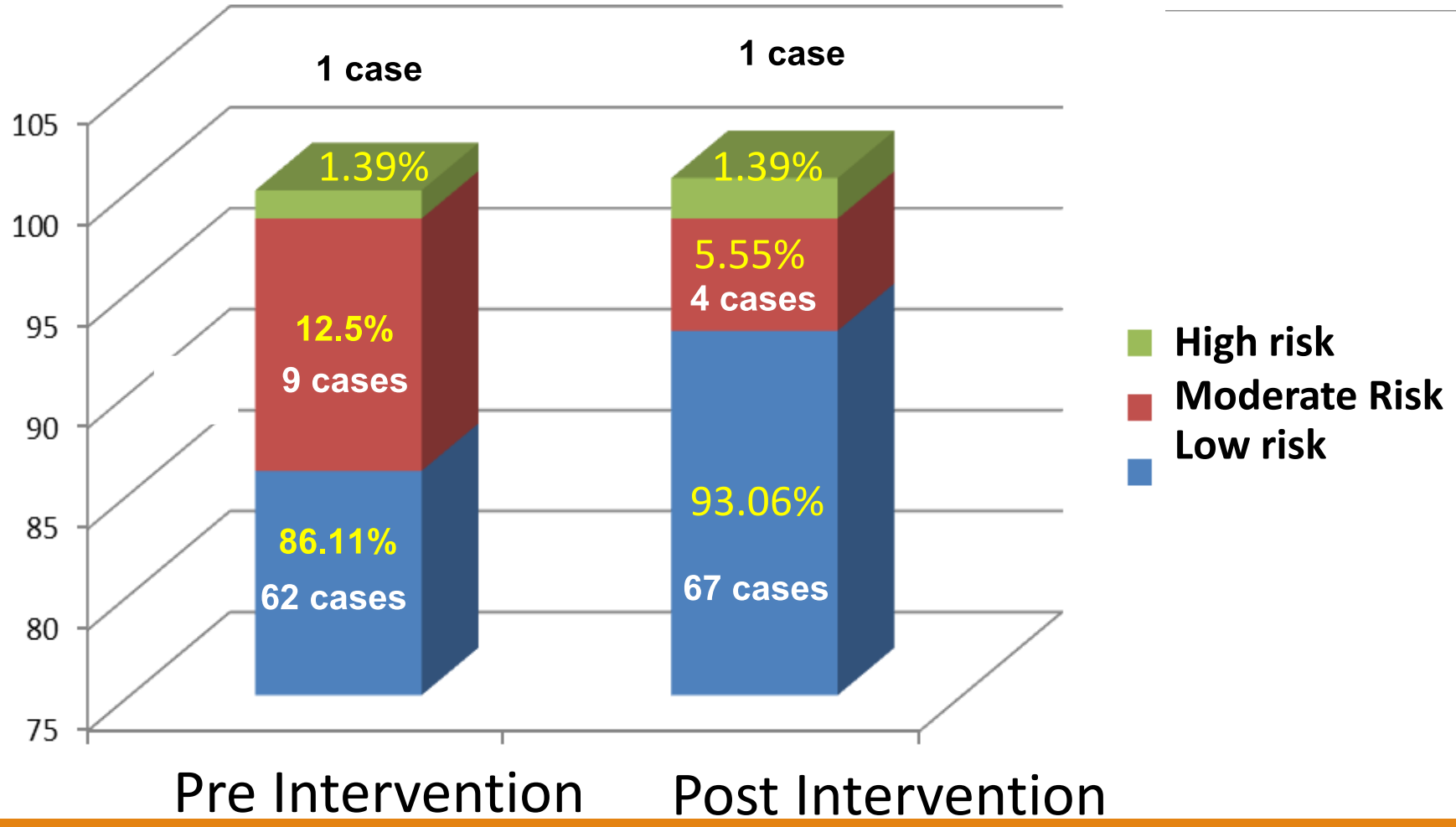
Expected vs. Actual Number of Participants



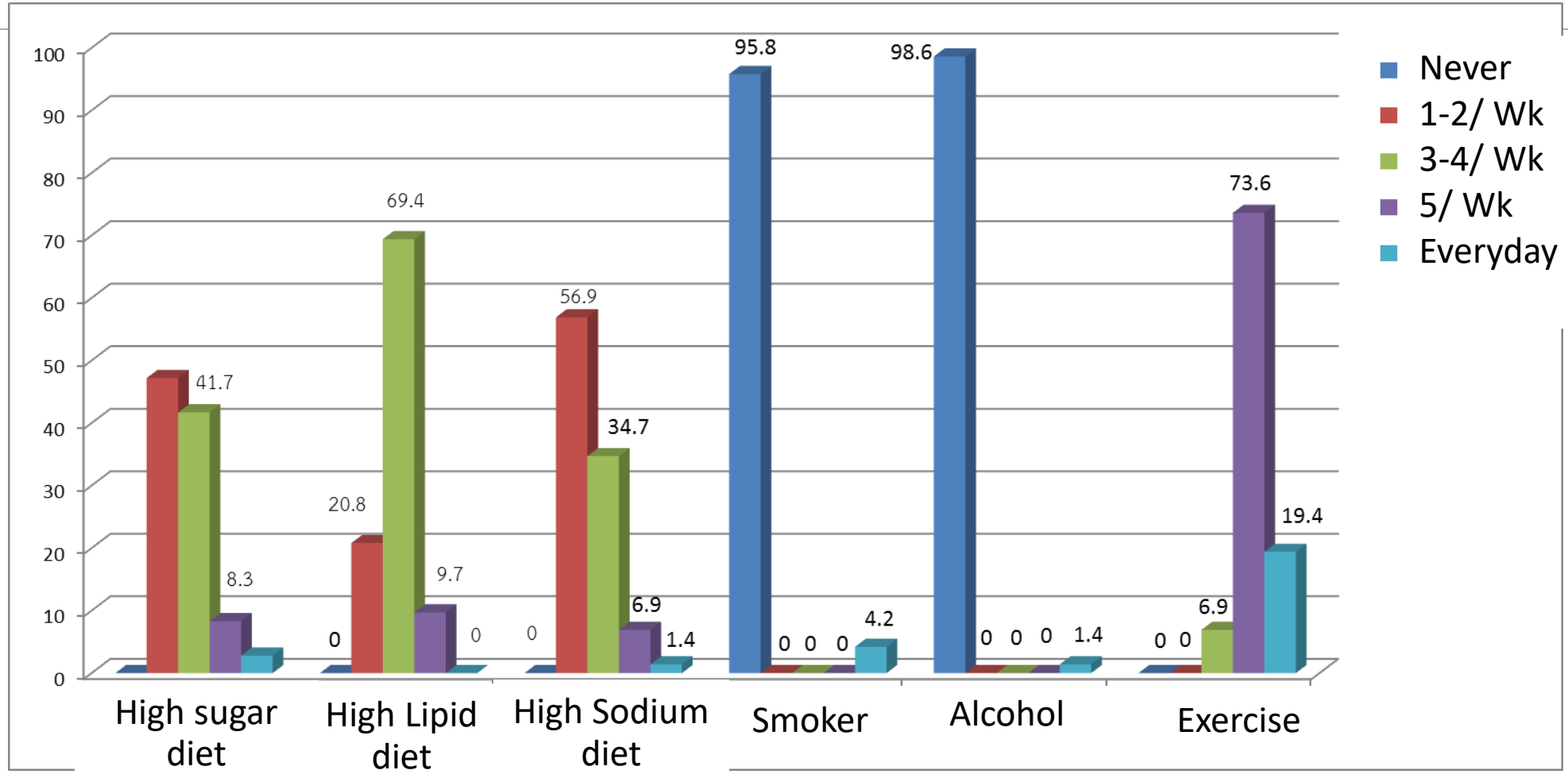
The interventions resulted in significant improvements in knowledge, risk reduction skills, lifestyle, and clinical outcomes

Paired Samples Test								
	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
pretest – post test	-1.333	1.374	.162	-1.656	-1.011	-8.235	71	.000

Improvement in SUT Stroke Risk Reduction



Improvement in Health Behavior Routines



Conclusion

- A Community Genogram allowed nurses to learn about the structure of families, the social problems faced by the community, and the areas in which health care could be improved
- Visualizing risks through a community genogram increased family and community awareness, increased community engagement and participation in health promotion and risk reduction interventions.
- The community genogram is a graphic tool that places emphasis on the positive strengths and resources that can be used to guide health promotion and risk reduction interventions.
- This application of community genogram provides a model which could be adapted with other disadvantaged or 'hard-to-reach' communities to improve health and wellbeing of their population

Questions?