

4.2.7 COMPOSITE RISK ASSESSMENT

This section provides information on composite risk assessment, which comprises of clustering of risk factors for respondents aged 18-69 years and ten-year CVD risk proportion for adults aged 40-69 years.

The clustering of risk factors contains the presence of ≥ 3 risk factors among adults, which include daily tobacco use, inadequate fruits and/or vegetable intake, insufficient physical activity, overweight (≥ 25.0 Kg/m²), raised blood pressure, and raised fasting blood glucose including those on medication.

A 10-year CVD risk* of <10%, (10 - <20%), (20 - <30%), (30 - <40%) and $\geq 40\%$ has been defined according to the age (40-69 years), gender, systolic blood pressure, current smoked tobacco use and diabetes (previously diagnosed/fasting plasma glucose concentration ≥ 126 mg/dl) as for South-East Asia Region.

KEY FINDINGS

- **40.2%** aged 18-69 years had presence of ≥ 3 risk factors.
- **12.8%** aged 40-69 years were at $\geq 30\%$ ten-year CVD risk or with existing CVD.
- Older adults (60-69 years) at a higher risk than younger adults (40-49 years).

Clustering of risk factors

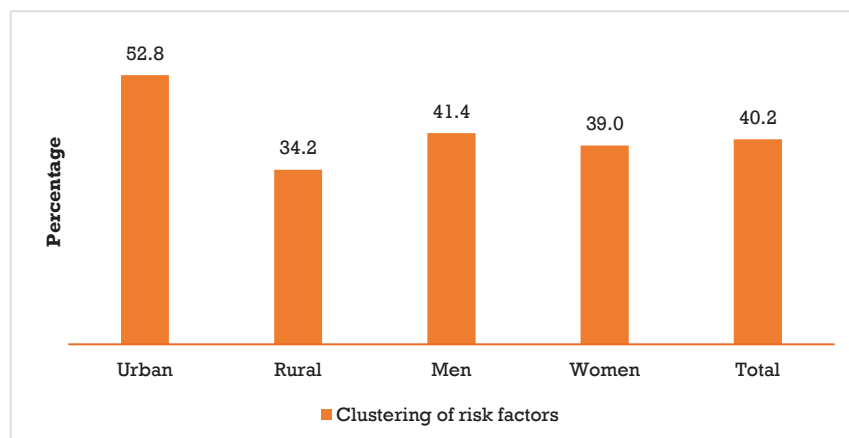


Figure 4.2.7.1 Clustering of at least ≥ 3 risk factors among adults (18–69 years) by area of residence and gender (Percentage)

40.2% of surveyed adults had the presence of at least ≥ 3 risk factors; urban areas (52.8%) and rural areas (34.2%) (Figure 4.2.7.1). Across the age groups the proportion of clustering of risk factors increased with age. (Annexure table 4.2.7.1a)

*WHO/ISH Risk prediction charts for 14 WHO epidemiological sub-regions [internet]. 2007. [cited 11 December 2018]. Available from: http://ishworld.com/downloads/activities/colour_charts_24_Aug_07.pdf

Ten-year CVD risk assessment

Table 4.2.7.1 Adults (40–69 years) with 10-year CVD risk (as per WHO guidelines) by area of residence and gender (Percentage)*

10-year CVD risk	Urban			Rural			Total		
	Men	Women	Combined	Men	Women	Combined	Men	Women	Combined
<10%	76.1	69.7	73.1	78.5	72.7	75.7	77.6	71.5	74.7
10 - <20%	8.6	12.2	10.3	11.0	13.8	12.3	10.1	13.2	11.5
20 - <30%	7.7	9.9	8.7	5.2	8.2	6.6	6.2	8.9	7.4
30 - <40%	3.3	1.2	2.3	2.5	2.1	2.3	2.8	1.8	2.3
≥40%	4.2	7.1	5.6	2.8	3.2	3.0	3.4	4.7	4.0

*excluding those with existing CVD

Among survey respondents aged between 40–69 years, 11.5% had 10 - <20%, 7.4% had 20 - <30%, 2.3% had 30 - <40% and 4.0% had ≥40% ten-year CVD risk. The percentage of adults in the urban areas were at a higher risk than those in the rural areas. Similarly, women were at a higher risk when compared to men (*Table 4.2.7.1*). The 10-year CVD risk of ≥40% increased with age, older adults of age 60-69 years were at a higher risk when compared to the younger adults (40-49 years). (*Annexure table 4.2.7.2a and b*)

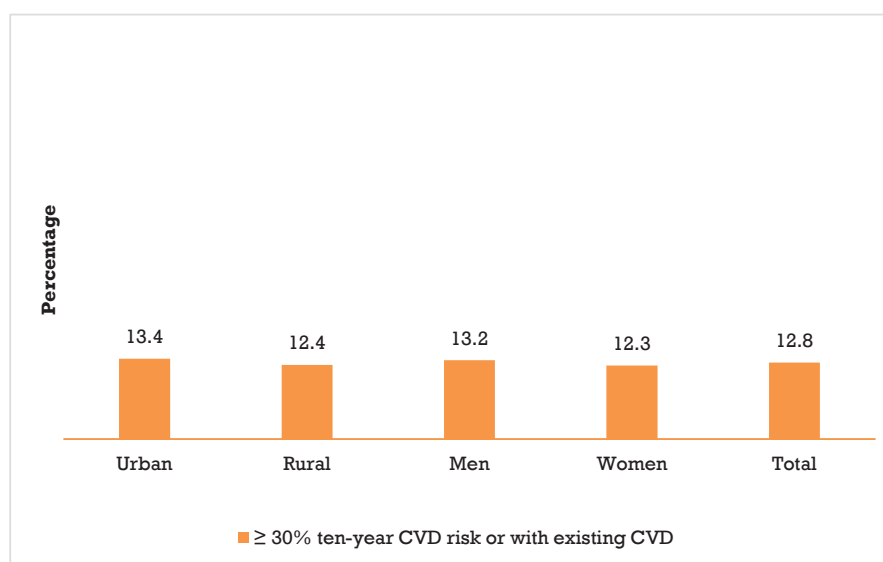


Figure 4.2.7.2 Adults (40–69 years) with 10-year CVD risk of ≥30% or with existing CVD by area of residence and gender (Percentage)

12.8% of adults aged 40-69 years were at $\geq 30\%$ ten-year CVD risk or with existing CVD, higher percentage from urban areas (13.4%) and were men (13.2%) (*Figure 4.2.7.2*). Across the age groups of 40-49, 50-59 and 60-69 years, the risk was higher with increasing age (6.4%, 12.7% and 22.8% respectively). (*Annexure table 4.2.7.3a*)