



Figure 2. Levels of determinants and sectors of society implicated in the complex systems of obesity. Reprinted with permission (2). [A [text description of this figure](#) is also available.]

http://www.cdc.gov/pcd/issues/2009/jul/09_0013.htm#2

This model shows the determinants that influence population energy balance at different levels. From left to right, they are International Factors, National/Regional, Community/Locality, Work/School/Home, and Individual, which lead to the population outcome Obesity Prevalence.

Within International Factors, the sectors are Globalization of markets, Development, and Media programs and advertising.

- Globalization of markets is linked in International Factors to Development, in Community/Locality to Public Transport, and in Work/School/Home to Leisure Activity/Facilities.
- Development is linked in National/Regional to Urbanization, to Health, and to Food and Nutrition, in Community/Locality to Agriculture/Gardens/Local markets, and in Work/School/Home to Leisure Activity/Facilities and to Labour.
- Media programs and advertising is linked in National/Regional to Media and Culture, to Education, and to Food and Nutrition.

Between the International Factors and National/Regional is a marker denoting the National perspective that is also a factor in the model.

Within National/Regional, the sectors are Transport, Urbanization, Health, Social Security, Media and Culture, Education, and Food and Nutrition.

- In National/Regional, the Transport sector and the Food and Nutrition sector are linked together, and the link between these two is linked in Community/Locality to Manufactured/Imported Food. The Urbanization sector, Health sector, and Food and Nutrition sector are linked together.
- Transport is linked in Community/Locality to Public Transport and to Public Safety.
- Urbanization is linked in Community/Locality to Public Transport, to Public Safety, and to Sanitation.
- Health is linked in Community/Locality to Health Care and to Sanitation.
- Social Security is linked in Work/School/Home to Leisure Activity/Facilities, to Family and Home, and to School Food and Activity.
- Media and Culture is linked in Community/Locality to Manufactured/Imported Food, and in Work/School/Home to Worksite Food and Activity and to Family and Home.
- Education is linked in Work/School/Home to Family and Home and to School Food and Activity.
- Food and Nutrition is linked in Community/Locality to Manufactured/Imported Food and to Agriculture/Gardens/Local markets, and is linked in Work/School/Home to Family and Home and to School Food and Activity.

Within Community/Locality, the sectors are Public Transport, Public Safety, Health Care, Sanitation, Manufactured/Imported Food, and Agriculture/Gardens/Local Markets.

- Public Transport is linked in the Individual sector to Energy Expenditure.
- Public Safety is linked in Work/School/Home to Leisure Activity/Facilities and in the Individual sector to Energy Expenditure.
- Health care is linked in Work/School/Home to Infections.
- Sanitation is linked in Work/School/Home to Infections.
- Manufactured/Imported Food is linked in Work/School/Home to Worksite Food and Activity, to Family and Home, and to School Food and Activity, and in the Individual sector to Food intake: Nutrient density.
- Agriculture/Gardens/Local markets is linked in Work/School/Home to Family and Home and to School Food and Activity, and in the Individual sector to Food intake: Nutrient density.

Within Work/School/Home, the sectors are Leisure Activity/Facilities, Labour, Infections, Worksite Food and Activity, Family and Home, and School Food and Activity.

- Leisure Activity/Facilities is linked in the Individual sector to Energy Expenditure.
- Labour is linked in the Individual sector to Energy Expenditure.
- Infections, Worksite Food and Activity, Family and Home, and School Food and Activity are each linked in the Individual sector to Energy Expenditure and to Food intake: Nutrient density.

Within Individual are 2 sectors, Energy Expenditure and Food intake: Nutrient density. Both are linked separately and together to the population outcome, Obesity Prevalence.