Catchment Area Definition and Determinants
Catchment area definition

• The geographic area and population from which a cancer center attracts patients
• Catchment areas are typically based on local or state boundaries e.g. county, city or state
• May be based on distance or time traveled
• Primary unit of comparison for a center’s enrollment of racial and ethnic minorities
Catchment Area

• The National Cancer Institute (NCI) allows each cancer center to define its own catchment area
• Catchment area definition and population data are required as part of the Cancer Center Support Grant (CCSG) 5 year renewal process
Relevant Populations for NCI Cancer Centers

- Cancer patients in the community
- The community
- Cancer patients treated at the center
- Cancer patients enrolled in clinical trials
How the Five EMPACT Centers Define Catchment Area
How the Five EMPACT Centers Define Catchment Area

By State Cancer Registry
How the Five EMPACT Centers Define Catchment Area

By State Cancer Registry

Same definition, different location
How the Five EMPACT Centers Define Catchment Area

By Adjacent Counties
How the Five EMPACT Centers Define Catchment Area

**By Counties Directly Adjacent to the City**
How the Five EMPACT Centers Define Catchment Area

By State Population
Learn More

• For a detailed description of how one cancer center determined catchment area, read *Spatial Analyses Identify the Geographic Source of Patients at a National Cancer Institute Comprehensive Cancer Center.*

• Su SC, Kanarek N, Fox MG. Clin Cancer Res 2010;16:1065-1072

• http://clincancerres.aacrjournals.org/content/16/3/1065clincancerres.aacrjournals.org
Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?
Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?

UC Davis
Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?

University of Alabama, Birmingham
Catchment Area-Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?

University of Minnesota
Catchment Area—Geographic Clusters of Patients

How would the geographic clusters of patients differ by institution?
Catchment Area - Population Density and Concentration of Cancer Centers

How would a center’s catchment area differ by location?

- **Low** population density
- **Low** concentration of cancer centers

- **High** population density
- **High** concentration of cancer centers

- **High** population density
- **Low** concentration of cancer centers

- **Low** population density
- **Low** concentration of cancer centers
Catchment Area-Population Vs. Cancer Cases

- What is the impact of using only cancer cases to define catchment area?
- How does immigration and aging population affect cancer case distribution?

![Graph showing cases per 100,000 people by age group, comparing White Population, Latino/Hispanic Population, and Cancer Cases - All Races.](chart)

**Cases per 100,000 people**

Summary

• Each center must define its catchment area in response to inclusion of women and minorities
• A catchment area should encompass the area from which center cancer patients are drawn
• Catchment areas may range from a metropolitan area to a state area or multi-state area
• Use of cancer cases vs. general population to define will change the catchment area population
• Careful definition and understanding of the catchment area are needed to correctly create goals and assess progress