

Auckland Region Vascular Atlas user guide III: Radar map

This user guide is divided into 3 short sections. By the end of this quick guide, you will be able to:

- A. Navigate through the user interface and controls;
- B. Display different data sets and view corresponding visuals;
- C. Display useful combinations of data for analysis



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Video Demonstrations

Click link below to watch video

[1. Overview of basic controls and display option \(4:20\)](#) [2. Examples of useful configurations for radar maps \(3:30\)](#)

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Wu B, Zhao J, Exeter DJ, (2013) *Auckland Region Vascular Atlas user guide III: Radar maps*. Retrieved from http://view.ac.nz/ALK_Map_User_Guides/radar_map.pdf. Last Accessed: 2 August 2013

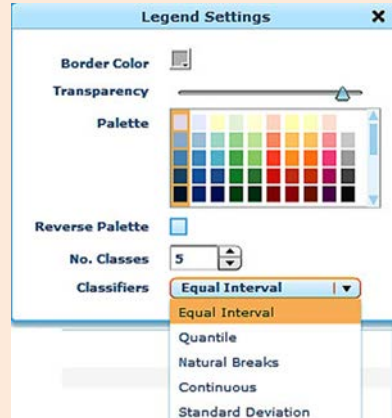
A: Basic User Interface and Controls

1 Data Panel

Changes data displayed on map. Click ► to expand grouping. Selection of a variable will be displayed on the map panel. Click to select the variable or hover to highlight. Click – or + to collapse or expand all.

2 Legend and Pie Chart

Click to display legend class or pie segment on map. Click to open legend settings panel



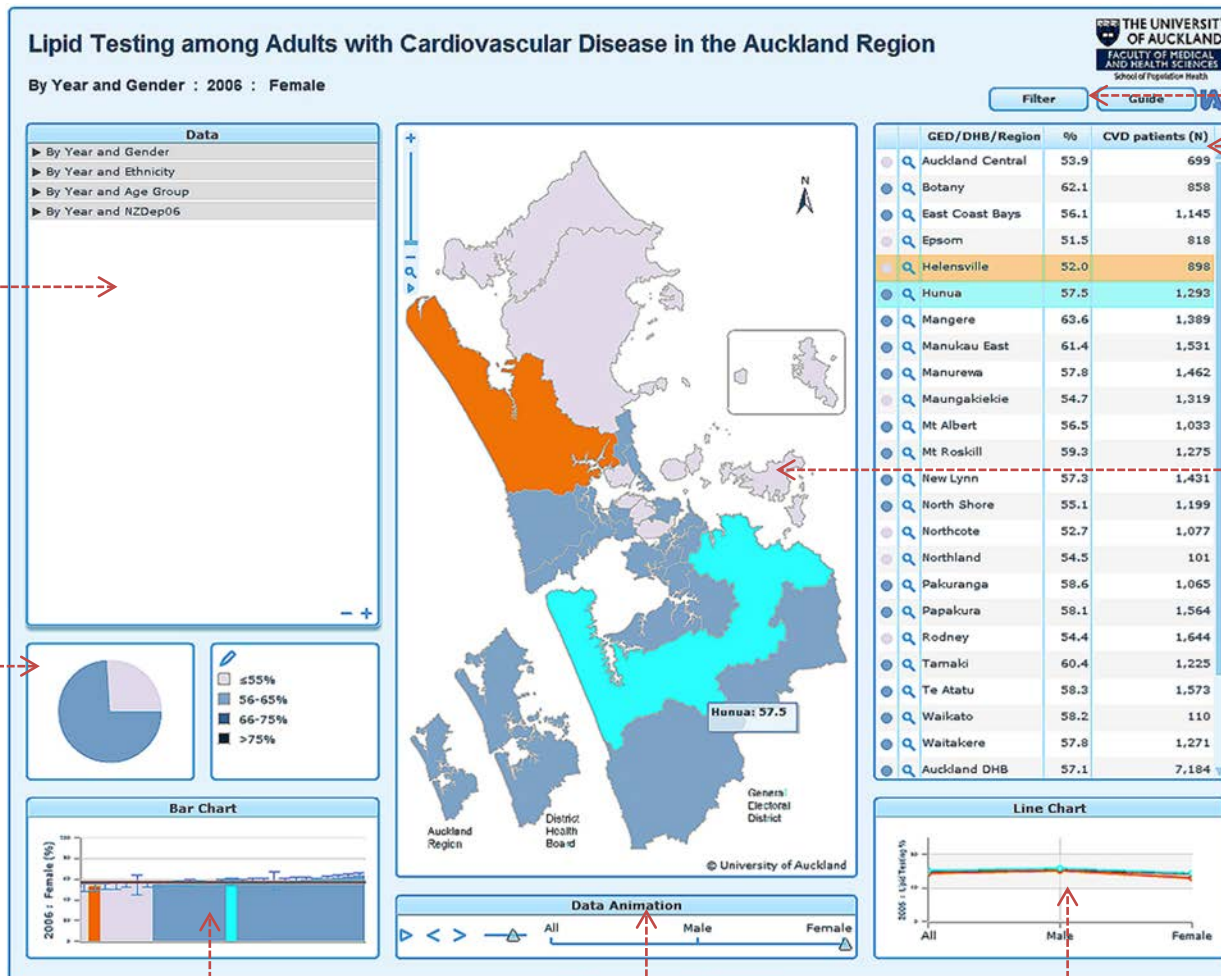
NB: classifiers alter the methodology for breaking and grouping data. All windows/panels can be resized and moved around the screen.

General Controls

Hover cursor to highlight data. Left click to select data. Right click displays menu on screen, including Clear Selection and Clear Filter to start over.

Map shows 3 levels of geography

Auckland Region, District Health Board (DHB), and General Electoral Districts (GEDs). Data displayed in multiple forms (map, table, pie, bar, line charts).



3 Bar Chart

Hover to see the mean, and upper and lower limit for each GED. Click on a bar to display the selection of on the map. Hold **Ctrl+** to select multiple mesh-blocks. Red line — indicates Auckland regional mean.

4 Data Animation

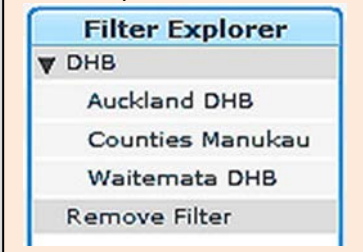
Plays an animation of different sub-groups within a data category. Click ► to play, < > to move back/forward one variable. Click ▲ to adjust speed.

5 Line Chart

Shows selected or highlighted data as line plots. Red line indicates Auckland regional mean.

8 Filter Button

Contains pre-set selections to display data for DHBs and GEDs only.



7 Tabular Data Panel

Contains all data for all areas (% and n value). Make single or multiple selections.

6 Map Panel

Click to select a GED, DHB or region. The mouse wheel can be used to Zoom in and out. Click ► to open the menu.



NB: Map shows 3 levels of geography.

Video Demonstration

[1. Overview of basic controls and display option \(4:20\)](#)

B: Display Different Data Sets

General Display Options

For table, charts, legend and map GEDS;
Clicking selection(s) and/or hovering cursor will generate a visualisation accordingly (i.e. **Orange** = selected, **blue** = hovering cursor).

9 Radar Map Symbology

[Radius Bars]

Demographic Indicator (i.e. age, gender, ethnicity).

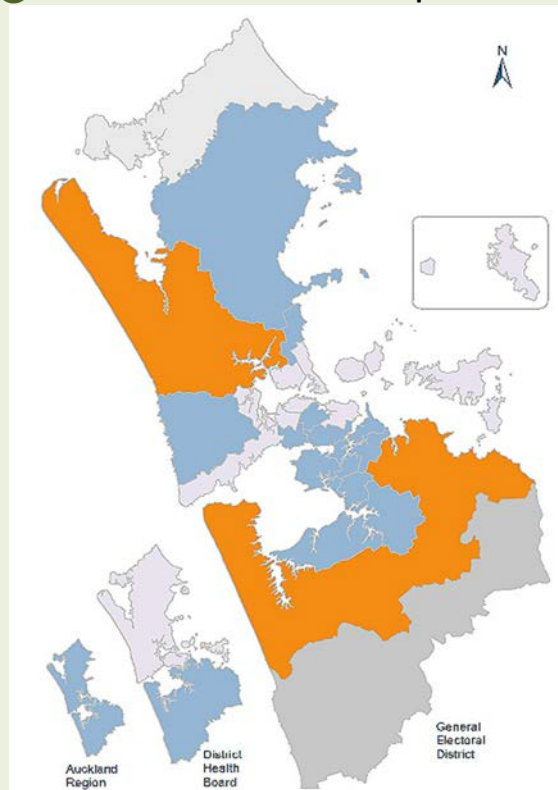
[Rings]

% count (increments of 10)

[Coloured Polygon]

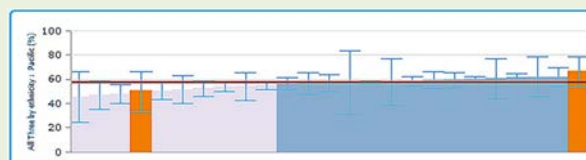
General Electorate District

10-3 Visualise Selection in the Map Panel

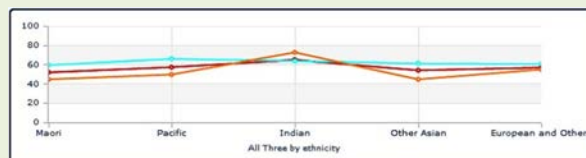


10-4 Visualise Selection in the Charts

Bar Chart

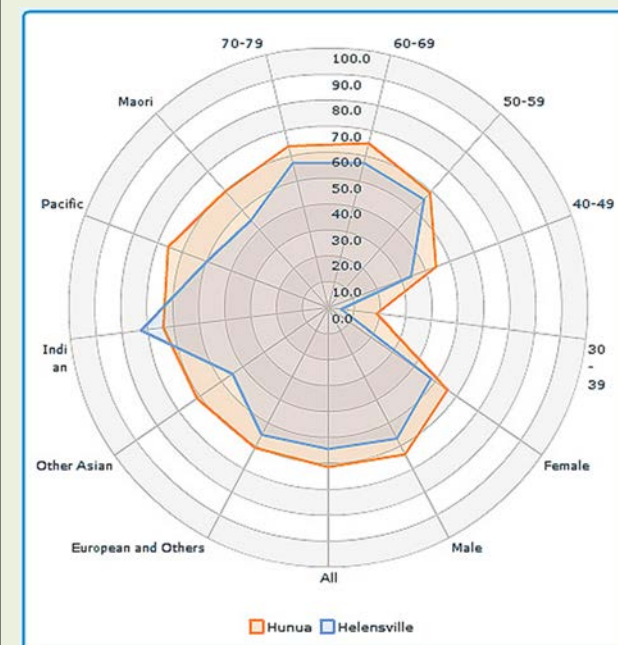


Line Chart



10-5 Visualise Selection in the Radar

All selections will appear in the radar map.



Example: Hunua (orange) and Helensville (blue) are displayed on radar as per selected on map, bar chart, and table.

10-1 Explore the Data Panels

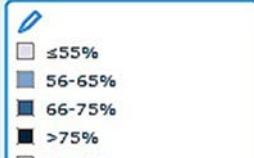
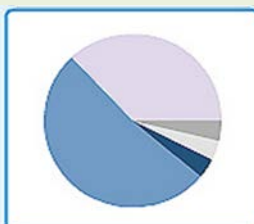
Data grouped by therapy type (i.e. Triple therapy, statins, etc.). Expand therapy type to reveal demographic groups.

Data are organised by sub-groups. You can expand them to specific variables. Selections made will appear on the corresponding maps, tables, and charts.

- ▼ On All Three drugs for cardiovascular disease
 - ▶ All Three by gender
 - ▶ All Three by age group
 - ▼ All Three by ethnicity
 - Maori
 - Pacific**
 - Indian
 - Other Asian
 - European and Others
- ▶ On Statins
- ▶ On Blood Pressure Lowering drugs
- On
 - ▶ AntiPlatelets/AntiCoagulants
 - On both Statins and Blood Pressure Lowering drugs

10-2 Select Data for Radar

GEDs can be selected using the legend, chart, graph, table, map or filter. NB: **Hold ctrl+** to make multiple selections.



11 Explore the Tabular Data Panel

Open table by clicking on the 'Table' button.

	GED/DHB/Region ▲	%	CVD patients (N)
●	Auckland Region	57.6	3,652
●	Botany	61.9	159
●	Counties Manukau DHB	60.3	1,927
●	East Coast Bays	57.7	25
●	Epsom	61.8	33
●	Helensville	50.0	35
●	Hunua	66.1	55
●	Mangere	61.4	717
●	Manukau East	58.6	654

Click ● or click anywhere on the row to make a selections. Click 🔍 to zoom to area (GED, DHB, and region) **Ctrl+** or **Shift+** to select multiple rows.

C: Useful Combinations for Analysis: Radar map

12 Find and display data based on therapy type and demographic groups

- On All Three drugs for cardiovascular disease
- On Statins
 - Statins by gender
 - Statins by age group
 - 30-39
 - 40-49
 - 50-59
 - 60-69**
 - 70-79
 - Statins by ethnicity
- On Blood Pressure Lowering drugs
- On
 - AntiPlatelets/AntiCoagulants
 - On both Statins and Blood Pressure Lowering

Expand Grouping
Reveal data sets for respective ethnicity

Select Category
Reveal data sets for respective indicators

Select Variable
Display data set for variable. I.e. Lipid and CVD rates

- On All Three drugs for cardiovascular disease
- On Statins
 - On Blood Pressure Lowering drugs
 - BPL by gender
 - BPL by age group
 - BPL by ethnicity
 - Maori
 - Pacific**
 - Indian
 - Other Asian
 - European and Others
- On
 - AntiPlatelets/AntiCoagulants

15 See Patterns and Variations

When 2 or more GEDs are selected and displayed in the radar chart, patterns can be seen based on shape of the polygons. I.e. the demographic distribution of GED X is similar to GED Y for triple drug therapy.

If the polygons are vastly different, then the data is indicating a far greater variation for the chosen variable(s).

Video Demonstration

[2. Examples of useful configurations for radar maps \(3:30\)](#)

16 Compare Polygons and other useful combinations of data

Selections can be filtered down in each map to isolate GEDs of interest. Using the example of drug therapy:

A – Compare ethnic groups

See difference between ethnic groups using same variables

B – Compare drug types

Compare different types of drug for same demographic group (i.e. age, gender, or ethnicity).

C – Compare rates between DHBs

See variation between GEDs belonging to different DHBs. NB: Right-click to 'Filter by Selection'

13 Select Parts of Data – using different methods

A – Select data by classification using pie chart and legend

E.g. Select GEDs with >75% population on Statins for Pacific

E.g. Select GEDs with >8.5% on Statins + BPL for male only.

B – Select data by normal distribution using bar Chart

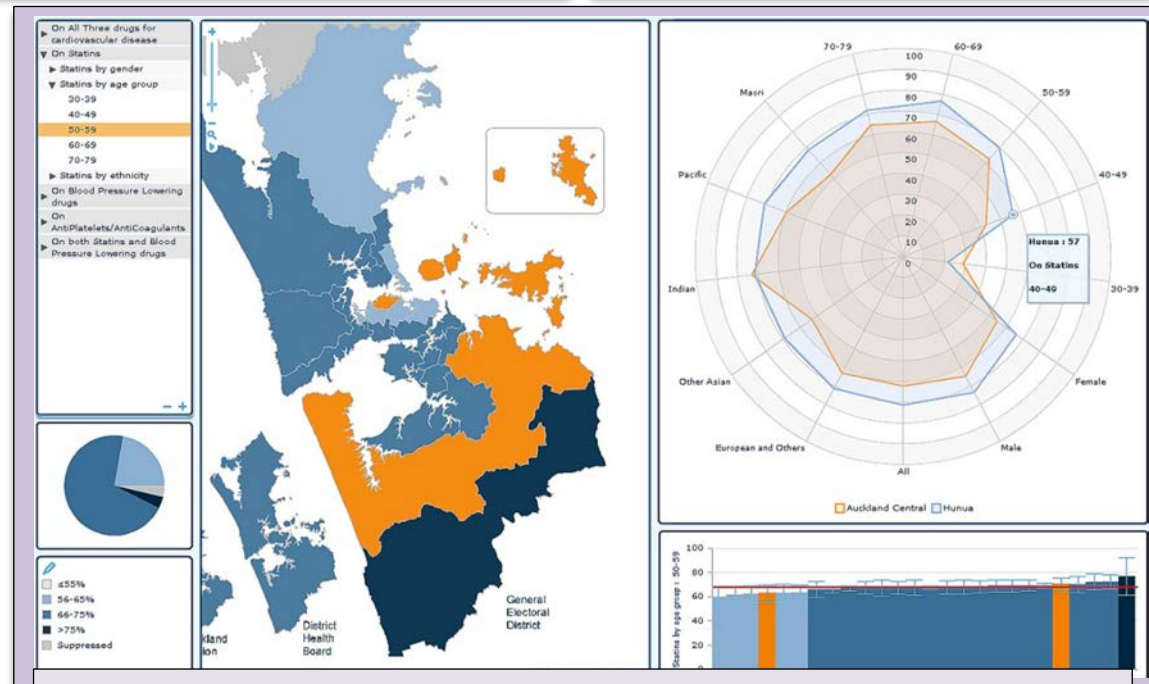
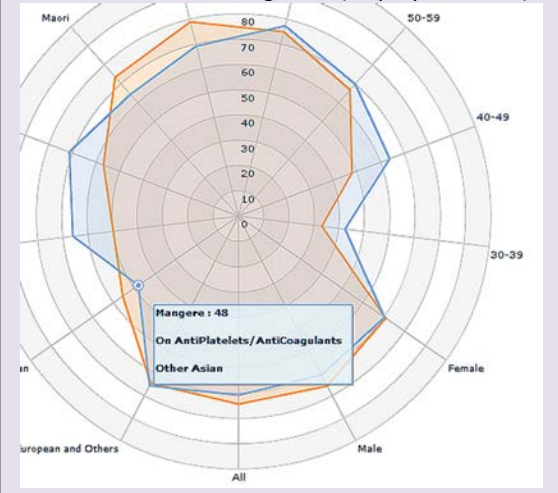
E.g. Select GEDs with values below Auckland mean ONLY.

NB: Click to make selection or **Ctrl+** to make multiple selections. Selection(s) will be highlighted in the tables and charts. **Right-click to 'Filter by Selection'.**

To cancel, choose 'Clear Selection' at any time or select 'Remove Filter' from menu. 8

14 View Summary in Radar Chart

Hover over radar chart points to see a summary of the data for each segment (displayed in box).



Example: Map shows GEDs with 50-59 year old patients on Statins. Radar map shows 2 GED selected (Auckland Central + Hunua) and their variations across the demographic indicators.