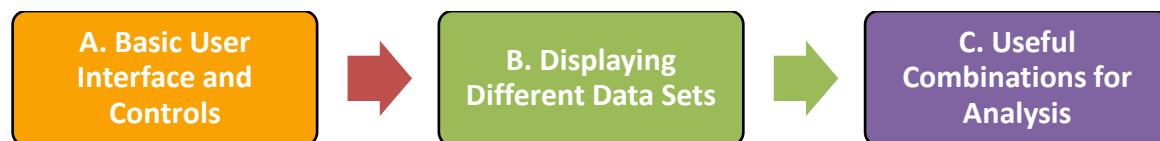


Auckland Region Vascular Atlas user guide I: Single and double maps

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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Document Prepared by Billy Wu, Jinfeng Zhao, and Daniel Exeter - University of Auckland. 2013. VIEW Project.

Recommended reference

Wu B, Zhao J, Exeter DJ, (2013) *Auckland Region Vascular Atlas user guide I: Single and double maps*. Retrieved from http://view.ac.nz/ALK_Map_User_Guides/single_double.pdf. Last Accessed: 29 July 2013

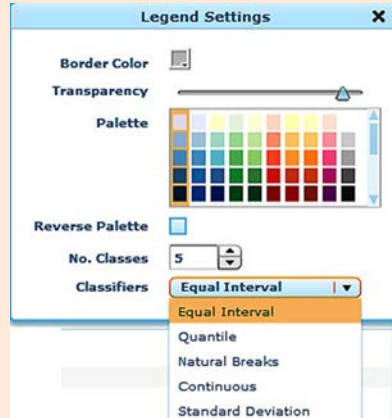
A: Basic User Interface and Controls

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



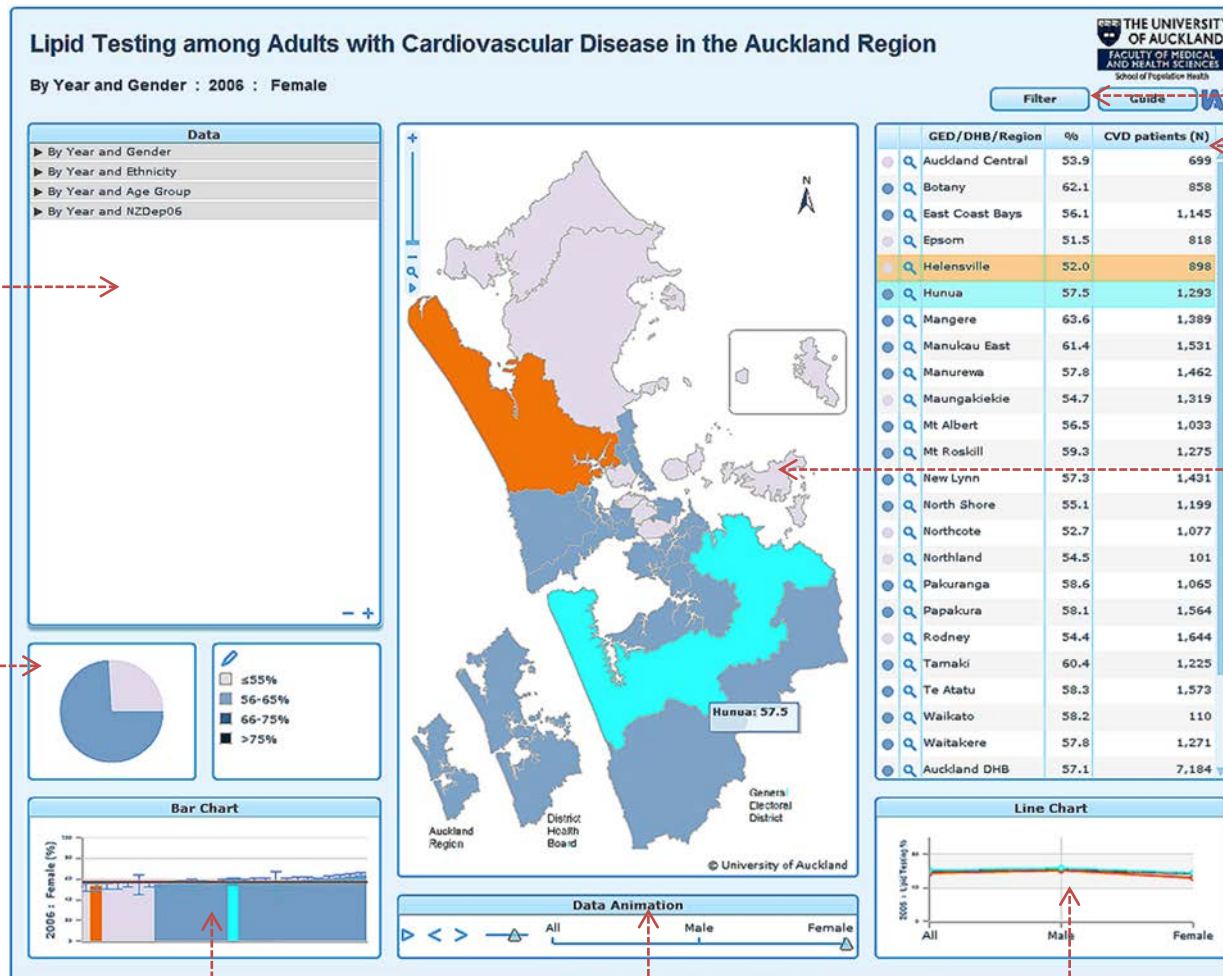
NB: classifiers alter the methodology for breaking and grouping data. All windows/panels can be resized and moved around the screen.

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

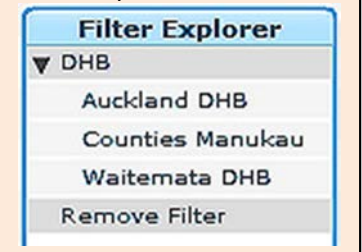
Plays an animation of different sub-groups within a data category. Click ► to play, < > to move back/forward one variable. Click ▲ to adjust speed.

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 options \(4:20\)](#)

B: Displaying Different Data Sets

9-1 Explore the Data Panel

Data are grouped into themes. Expand them to explore different sub-groups and variables. Selections will appear on the corresponding maps, tables, and charts.

Data

- ▶ By Year and Gender
- ▶ By Year and Ethnicity
- ▶ By Year and Age Group
- ▶ By Year and NZDep06

Data

▼ By Year and Gender

- ▶ 2006
- ▶ 2007
- ▶ 2008
- ▶ 2009
- ▶ 2010

▼ By Year and Ethnicity

- ▶ 2006
- ▶ 2007
- ▶ 2008
- ▶ 2009
- ▶ 2010

▶ By Year and Age Group

▶ By Year and NZDep06

Data

▼ By Year and Gender

- ▶ 2006
- ▶ 2007
- ▼ 2008
- All
- Male
- Female

▼ 2009

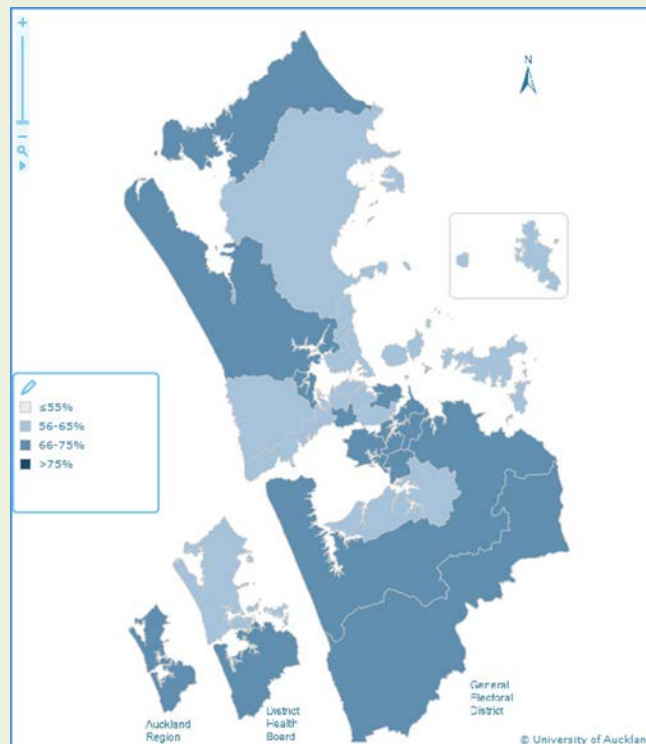
- All
- Male
- Female

▼ 2010

- All
- Male
- Female

Note: Data Animation Panel 5 can be used to automatically play through each category

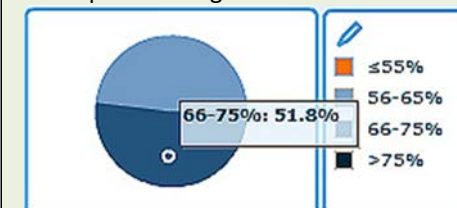
9-2 Visualise Data Selection in the Map



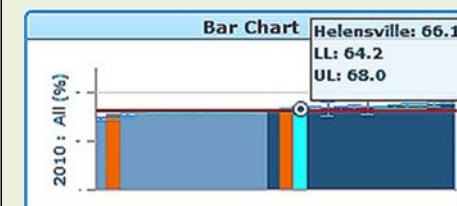
10 Explore Data Using the Charts

Clicked selection(s) and/or hovering cursor over chart plots will appear on map panel and tabular data panel accordingly (i.e. **Orange** = selected, **blue** = hovering cursor).

Pie Graph/Legend – Shading colour corresponds to legend.



Bar/Line Chart – Selection(s) and hovering over plots on either chart will reveal its corresponding reference on the map, table, and other charts.



9-3 Explore the Tabular Data Panel

Click ● or click anywhere on the row to make a selections.

Click 🔍 to zoom to area (GED, DHB, and region)

	GED/DHB/Region	%	CVD patients (N)
● 🔍	Auckland Central	60.6	1,763
● 🔍	Botany	70.5	2,145
● 🔍	East Coast Bays	64.2	2,574
● 🔍	Epsom	57.0	1,965
● 🔍	Helensville	66.1	2,357
● 🔍	Hunua	67.8	3,134
● 🔍	Mangere	72.1	3,250
● 🔍	Manukau East	58.5	3,475

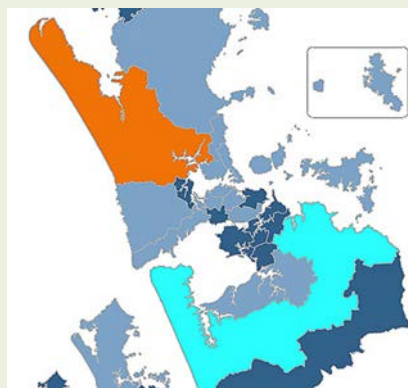
Hold Ctrl + click to select multiple rows.

Click category labels to sort table by value

%	CVD patients (N)
68.5	3,475
68.0	20,900
67.8	28,900

9-4 Visualise Table Selection in the Map

Clicking selection(s) or hovering cursor will be shown on map panel accordingly (**Orange** = selected, **blue** = hovering cursor).



Right click or click ▶ to access menu for clearing a selection or adding selection(s) to filter.

11 Select by Filter

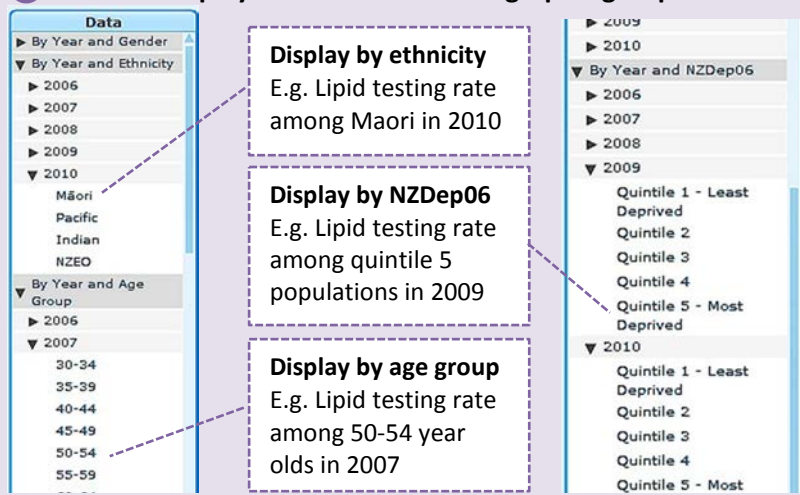
Quickly select DHBs only. Right click to clear filter.

Video Demonstration

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

C: Useful Combinations for Analysis: SINGLE MAP

12 Find and display data based on demographic groups



13 Select Parts of the Data – using different methods

Extra filters can be applied to the maps and tables

A – Select by Classification using Pie Chart and Legend 2

E.g. Select GEDs with 66 – 75% lipid testing rates ONLY.

E.g. Select GEDs with $\leq 55\%$ and $>75\%$ ONLY.

B – Select by 95% CI using Bar Chart 3

E.g. Select GED with <10% CI variation ONLY.

C – Select by DHBs using Filter Button 8

E.g. Select GED belonging to Counties Manukau DHB ONLY.

Note: 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

15 See Patterns and Variations

Use line charts to see differences in values between selected GEDs.

E.g. Comparing rates of lipid testing among different age groups in Epsom and Botany in 2010

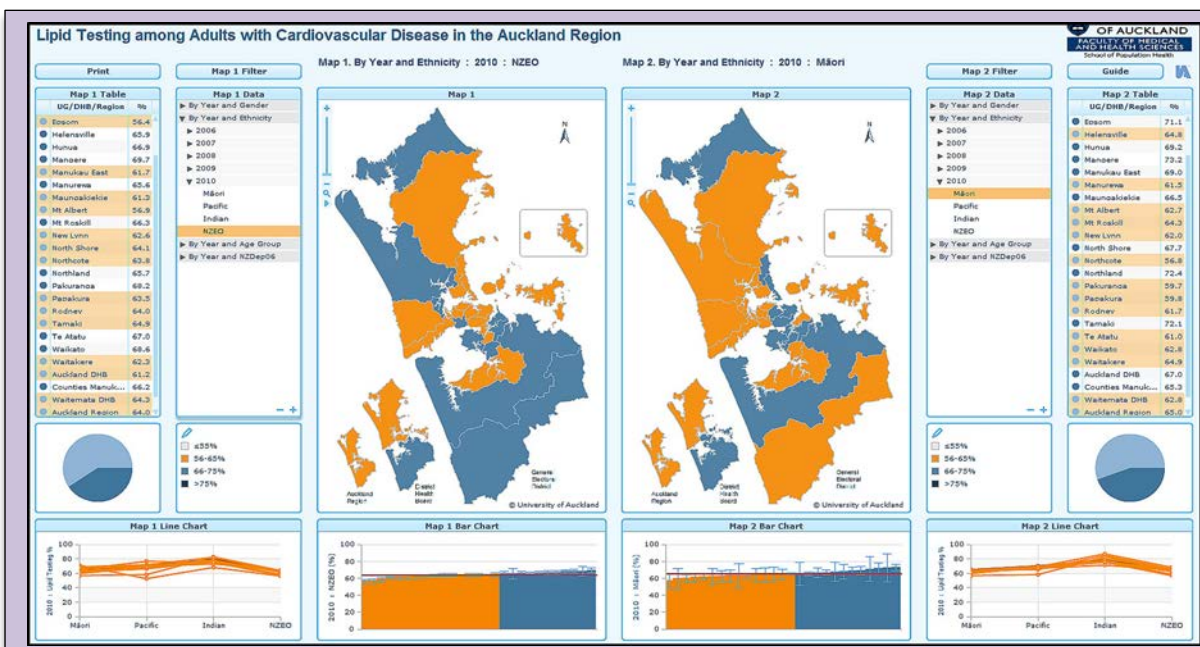
14 Other Useful Configurations

- Find rate of lipid testing for any year and see area variations based on deprivation.

- Find GEDs in the Auckland region with <65% lipid testing rate for all gender. Use bar to identify GEDs below Auckland mean. Filter selection.

Video Demonstration

2. Examples and useful configurations for SINGLE MAPS



DOUBLE MAPS

16 Comparing data using double maps

Useful for comparing patterns and trends for two variables. Selections can be filtered down in each map to further show variation and patterns between groups.

A – Comparing demographics groups

- Same group different years;
- Different group same year;
- Total population and different groups

B – Comparing distribution of values

- Above mean versus below mean;
- Highest quintile versus lowest quintile;

C – Comparing between geographies

- DHB versus DHB

17 Useful Double Map Configurations

- Compare rates for Maori versus non-Maori

- Compare most-deprived patients versus least-deprived patients in GEDs.

- See change over time among different demographic groups

Video Demonstration

3. Examples and useful configurations for DOUBLE MAPS (1:50)