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

### Quick Find Index

<table>
<thead>
<tr>
<th></th>
<th>A. Basic user Interface and Controls</th>
<th>B. Display Different Data Sets</th>
<th>C. Useful Combinations for Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Data Panel</td>
<td>Radar Map Symbology</td>
<td>Find and display data based on therapy type and demographic groups</td>
</tr>
<tr>
<td>2</td>
<td>Legend and Pie Chart</td>
<td>Explore the Data Panels</td>
<td>Select parts of the data – using different methods</td>
</tr>
<tr>
<td>3</td>
<td>Bar Chart</td>
<td>Select Data for Radar</td>
<td>View summary on the radar chart</td>
</tr>
<tr>
<td>4</td>
<td>Data Animation</td>
<td>Visualise Selection in the Map Panel</td>
<td>See patterns and variations</td>
</tr>
<tr>
<td>5</td>
<td>Line Chart</td>
<td>Visualise Selection in the Charts</td>
<td>Compare polygons and other useful combinations of data</td>
</tr>
<tr>
<td>6</td>
<td>Map Panel</td>
<td>Visualise Selection in the Radar</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Tabular Data Panel</td>
<td>Explore the Tabular Data Panel</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Filter Button</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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)


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 settings panel.

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

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.

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).

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.

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

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

A: Basic User Interface and Controls

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.

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).

Legend Settings
- Border Color
- Transparency
- Palette
- Reverse Palette
- No. Classes
- Classifiers
  - Equal Interval
  - Quantile
  - Natural Breaks
  - Continuous
  - Standard Deviation

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.

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.

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

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

**10-1 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.

**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.

**10-3 Visualise Selection in the Map Panel**
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.

**10-4 Visualise Selection in the Charts**
- **Bar Chart**
- **Line Chart**

**11 Explore the Tabular Data Panel**
Open table by clicking on the ‘Table’ button.

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

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

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.

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

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).

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’

Video Demonstration
2. Examples of useful configurations for radar maps (3:30)

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.