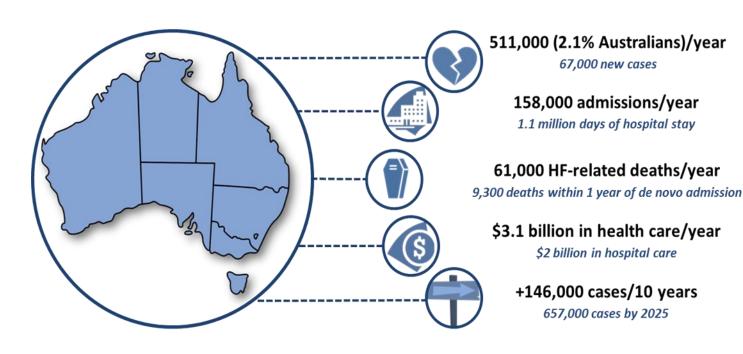
Snapshot of

Heart Failure in Australia



Authors: Dr Lei Chen Ms Sarah Booley Ms Ashley K Keates Professor Simon Stewart

Report Title:

Snapshot of Heart Failure in Australia

Research Team:

Dr Lei Chen

Ms Sarah Booley

Ms Ashley K Keates

Professor Simon Stewart

Any enquiries should be directed to:

Professor Simon Stewart

Mary MacKillop Institute for Health Research, Australian Catholic University, Level 5, 215 Spring Street Melbourne, Victoria 3000 Australia

T 0438 302 111

E simon.stewart@acu.edu.au



Suggested reference:

Chen L, Booley S, Keates AK, Stewart S. Snapshot of heart failure in Australia. May 2017. Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, Australia

A downloadable version of this report can be found at:

http://www.cre2rihd.org.au/

ISBN: 978-1-922097-46-0 (Print version)

ISBN: 978-1-922097-47-7 (Electronic version)

This report was funded by Novartis Pharmaceuticals Pty Ltd. The sponsor played no part in the research process, the results or interpretation of study findings.





Snapshot of Heart Failure in Australia



511,000 (2.1% Australians)/year 67,000 new cases

158,000 admissions/year

1.1 million days of hospital stay

61,000 HF-related deaths/year

9,300 deaths within 1 year of de novo admission

\$3.1 billion in health care/year

\$2 billion in hospital care

+146,000 cases/10 years

657,000 cases by 2025

| | Men | Women |
|--|-----|-------|
| Population Profile (Adults aged ≥45 years) | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF). As HF rarely occurs in younger individuals, our estimates for the entire Australian population focus on those aged ≥45 years.

338,000/*30,000*

173,000/*37,000*

Hospital Burden (per annum)

All/New Cases of HF

| All/New Hospital Admissions | 78,000/ <i>16,000</i> | 80,000/14,000 |
|-----------------------------|-----------------------|---------------|
| Days of hospital stay | 531,000 | 550,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 40,500 | 20,500 |
|-----------------------------|--------|--------|
| 1 year of de novo admission | 4,700 | 4,600 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$1.7 billion | \$1.4 billion |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$1 billion | \$1 billion |

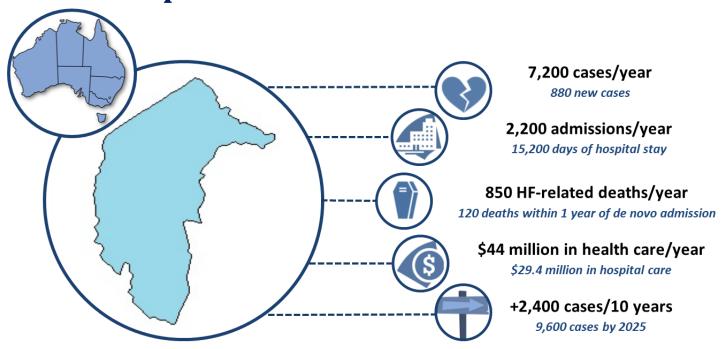
The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

Future burden (per annum)

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **536,000** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women, 51,000 and 28,000 HF admissions (65% and 35%) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (8,600 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (53,000 are preventable overall)

Snapshot of Heart Failure in A. C. T.



| | Men | Women | |
|--|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/ <i>New</i> Cases of HF 4,800/390 2,400/490 | | | |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 1,100/ <i>210</i> | 1,100/ <i>180</i> |
|-----------------------------|-------------------|-------------------|
| Days of hospital stay | 7,400 | 7,800 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 570 | 280 |
|-----------------------------|-----|-----|
| 1 year of de novo admission | 60 | 60 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$24 million | \$20 million |
|-------------------------|----------------|--------------|
| Cost of hospital care | \$14.4 million | \$15 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

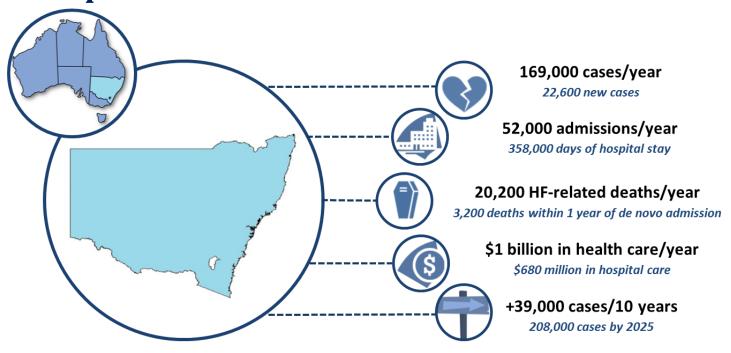
Future burden (per annum)

| All/New Cases of HF in 2025 | 6,300/ <i>580</i> | 3,300/ <i>720</i> |
|-----------------------------|-------------------|-------------------|
| Any rect cases of the miles | 0,300,300 | 3,300,720 |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **7,500** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- •In men and women **720** and **410** HF admissions (**65%** and **35%**) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (120 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (750 are preventable overall)

Snapshot of Heart Failure in New South Wales



| | Men | Women | |
|--|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF 111,000/10,000 58,000/12,600 | | | |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 26,000/ <i>5,400</i> | 26,000/ <i>4,700</i> |
|-----------------------------|----------------------|----------------------|
| Days of hospital stay | 175,000 | 183,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 13,300 | 6,900 |
|-----------------------------|--------|-------|
| 1 year of de novo admission | 1,600 | 1,600 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$558 million | \$460 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$335 million | \$345 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

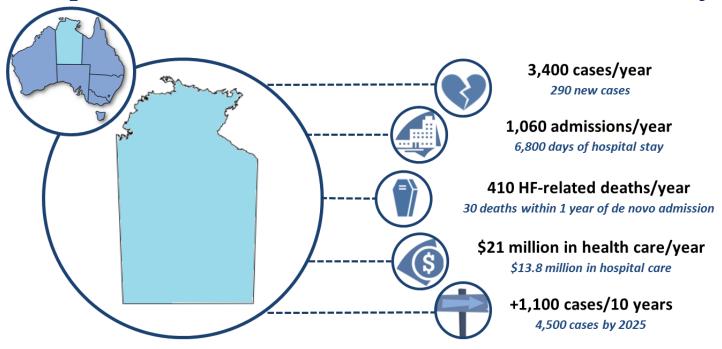
Future burden (per annum)

| All/Many Coase of UE in 2025 | 135 000/14 000 | 72 000 / 17 000 |
|------------------------------|------------------------|-----------------------|
| All/New Cases of HF in 2025 | 135,000/ <i>14,000</i> | 73,000/ <i>17,000</i> |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated 178,000 adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women 17,000 and 9,300 HF admissions (65% and 35%) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (3,000 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (17,400 are preventable overall)

Snapshot of Heart Failure in Northern Territory



| | Men | Women | |
|--|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF 2,600/150 800/140 | | | |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 580/ <i>90</i> | 480/ <i>50</i> |
|-----------------------------|----------------|----------------|
| Days of hospital stay | 3,700 | 3,100 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 310 | 100 |
|-----------------------------|-----|-----|
| 1 year of de novo admission | 20 | 10 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$13 million | \$8 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$7.5 million | \$6.3 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

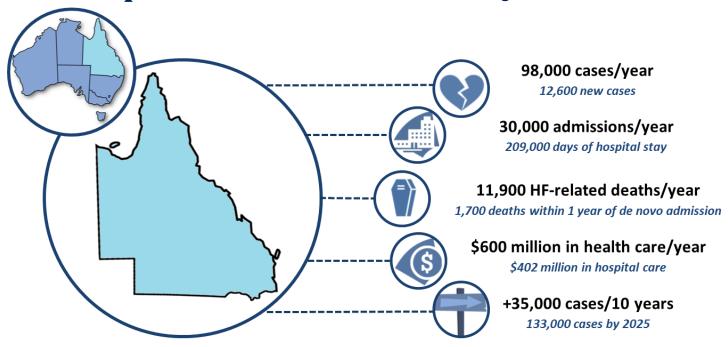
Future burden (per annum)

| All/New Cases of HF in 2025 | 3,300/240 | 1,200/230 |
|--------------------------------|------------------------|-----------|
| Any we we cases of the mi Lors | 3,300/ 2 70 | 1,200,200 |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **3,100** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- •In men and women **380** and **180** HF admissions (**65%** and **35%**) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (30 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (350 are preventable overall)

Snapshot of Heart Failure in Queensland



| | Men | Women |
|--|----------------------|----------------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 66,000/ <i>5,700</i> | 32,000/ <i>6,900</i> |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 15,000/ <i>3,100</i> | 15,000/ <i>2,500</i> |
|-----------------------------|----------------------|----------------------|
| Days of hospital stay | 104,000 | 105,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 8,000 | 3,900 |
|-----------------------------|-------|-------|
| 1 year of de novo admission | 900 | 800 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$334 million | \$266 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$201 million | \$201 million |

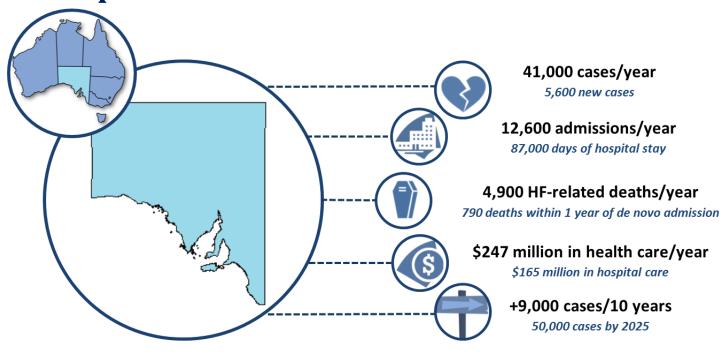
The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

Future burden (per annum)

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **104,000** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women 10,000 and 5,400 HF admissions (65% and 35%) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (1,600 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (10,200 are preventable overall)

Snapshot of Heart Failure in South Australia



| | Men | Women | |
|---|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF 27,000/2,400 14,000/3,200 | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 6,200/ <i>1,300</i> | 6,400/ <i>1,200</i> |
|-----------------------------|---------------------|---------------------|
| Days of hospital stay | 42,000 | 45,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 3,200 | 1,700 |
|-----------------------------|-------|-------|
| 1 year of de novo admission | 390 | 400 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$134 million | \$113 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$81 million | \$84 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

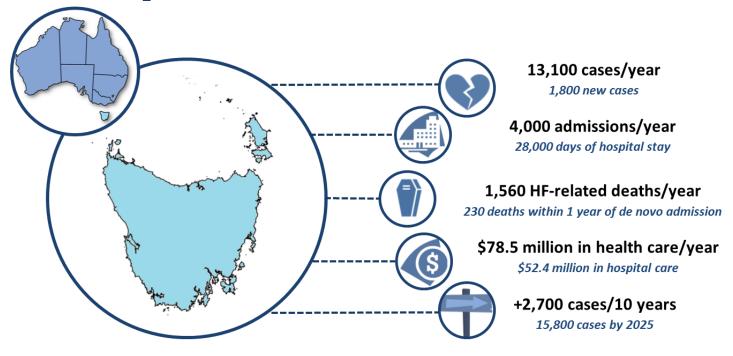
Future burden (per annum)

| _ | _ | _ |
|-----------------------------|----------------------|----------------------|
| All/New Cases of HF in 2025 | 32,000/ <i>3,300</i> | 18,000/ <i>4,100</i> |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **44,000** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women 4,000 and 2,300 HF admissions (65% and 35%) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (740 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (4,200 are preventable overall)

Snapshot of Heart Failure in Tasmania



| | Men | Women | |
|--|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF 8,700/800 4,400/1,000 | | | |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 2,000/420 | 2,000/ <i>350</i> |
|-----------------------------|-----------|-------------------|
| Days of hospital stay | 14,000 | 14,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 1,040 | 520 |
|-----------------------------|-------|-----|
| 1 year of de novo admission | 120 | 110 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$43.6 million | \$34.9 million |
|-------------------------|----------------|----------------|
| Cost of hospital care | \$26.3 million | \$26.1 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

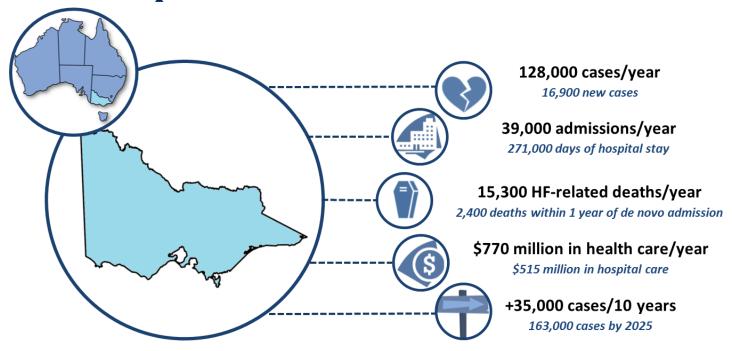
Future burden (per annum)

| All/New Cases of HF in 2025 10,20 | 00/ <i>1,100</i> 5,600/ <i>1,30</i> | 00 |
|-----------------------------------|-------------------------------------|----|
|-----------------------------------|-------------------------------------|----|

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated 13,700 adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women 1,300 and 700
 HF admissions (65% and 35%) per
 annum respectively, are linked to
 an coronary heart disease and
 HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (220 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (1,340 are preventable overall)

Snapshot of Heart Failure in Victoria



| | Men | Women | |
|--|-----|-------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF 84,000/7,400 44,000/9,500 | | | |
| These figures reflect the probable number of Australians with clinical signs and symptoms of | | | |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 19,000/4,000 | 20,000/ <i>3,500</i> |
|-----------------------------|--------------|----------------------|
| Days of hospital stay | 132,000 | 139,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 10,000 | 5,300 |
|-----------------------------|--------|-------|
| 1 year of de novo admission | 1,200 | 1,200 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$420 million | \$350 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$253 million | \$262 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

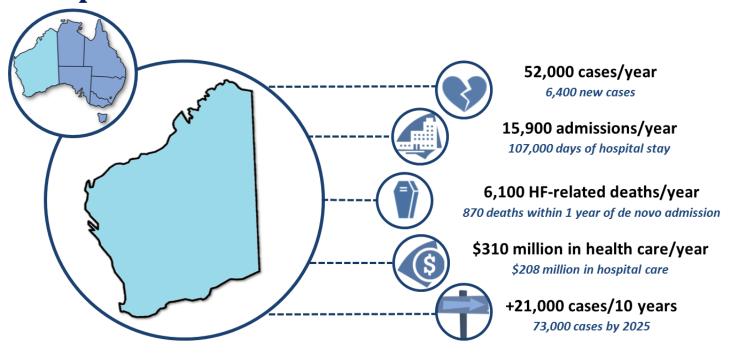
Future burden (per annum)

| All/New Cases of HF in 2025 | 106 000/10 400 | E7 000/12 000 |
|-------------------------------|------------------------|-----------------------|
| All/IVEW Cases of HF III 2025 | 106,000/ <i>10,400</i> | 57,000/ <i>13,000</i> |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated 135,000 adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- •In men and women **13,000** and **7,200** HF admissions (**65%** and **35%**) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (2,100 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (13,100 are preventable overall)

Snapshot of Heart Failure in Western Australia



| | Men | Women |
|--|----------------------|----------------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 35,000/ <i>2,900</i> | 17,000/ <i>3,500</i> |
| All/New Cases of HF | 33,000/2,300 | 17,000/3,300 |

These figures reflect the probable number of Australians with clinical signs and symptoms of HF associated with underlying coronary heart disease and a reduced ejection fraction (HFrEF) with more men than women affected overall.

Hospital Burden (per annum)

| All/New Hospital Admissions | 8,000/1,600 | 7,900/1,300 |
|-----------------------------|-------------|-------------|
| Days of hospital stay | 53,000 | 54,000 |

HF rarely occurs in isolation and when present as comorbidity negatively influences health outcomes. As such, these data reflect all hospital admissions where HF is listed as primary or secondary diagnosis.

HF-related deaths (per annum)

| Total deaths | 4,100 | 2,000 |
|-----------------------------|-------|-------|
| 1 year of de novo admission | 450 | 420 |

HF is as "malignant" as many forms of cancer; particularly once an individual is hospitalised – within 5 years of a de novo admission ~50% of patients will have died.

Health Care Costs (per annum)

| Total health care costs | \$173 million | \$137 million |
|-------------------------|---------------|---------------|
| Cost of hospital care | \$104 million | \$104 million |

The costliest and most preventable component of health care attributable to HF is hospital care for those patients who become clinically unstable and have recurrent events.

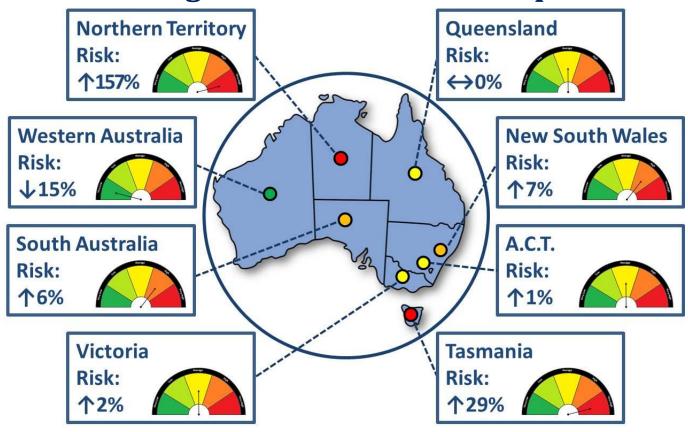
Future burden (per annum)

| All/New Cases of HF in 2025 | 49,000/4,400 | 24,000/ <i>5,200</i> |
|--------------------------------|-----------------------|------------------------------------|
| All/New Cases of the life 2025 | - 7,000 -,-00 | 2 7 ,000/ <i>3,</i> 200 |

Even without any change in the key drivers of HF (e.g. hypertension and coronary heart disease), population dynamics alone will mean substantially more cases in the decade ahead.

- •Beyond those with HF associated with an inability of the heart to contract properly (mostly caused by underlying coronary heart disease and known as HFrEF) an estimated **53,000** adults (with more women affected) have a form of HF that is associated with an inability of the heart to relax HF with preserved ejection fraction (HFpEF)
- In men and women 5,000 and 2,800 HF admissions (65% and 35%) per annum respectively, are linked to an coronary heart disease and HFrEF.
- Within 30-days of a de novo HF admission one third of surviving patients will be readmitted for any reason (810 patients/year)
- Within one year of an initial HFrelated admission, on average a patient will experience 3 more hospital (re)admissions
- Around one third of hospital admissions for HF (5,300 are preventable overall)

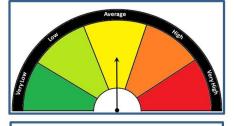
Finding the Heart Failure Hotspots



Adjusting for Hotspots

In the report so far, we have shown the estimates for heart failure assuming that the syndrome affects all regions equally. However, this is not the case. In order to delve deeper into the problem, the report will now show a more accurate estimate for your area, factoring in the reality of inequality. The above figure shows whether the states are affected negatively or positively by the adjustments, 11-12 and the below table shows the potential variation in all cases of Heart Failure across states when hotspots are taken into account. 11-12

| | Original | Adjusted |
|------------------------------|----------|----------|
| New South Wales | 169,000 | 180,300 |
| Victoria | 128,000 | 130,400 |
| Queensland | 98,000 | 98,120 |
| South Australia | 41,000 | 43,600 |
| Western Australia | 52,000 | 44,000 |
| Tasmania | 13,100 | 16,900 |
| Northern Territory | 3,400 | 8,750 |
| Australian Capital Territory | 7,200 | 7,300 |



HOTSPOTS

Each area has been assigned a heart failure 'hotspot' rating of Very Low, Low, Average, High, or Very High in comparison to the national average. 11-12 On the following page, you'll be able to see how your local area compares to the rest of Australia.

Very Low: ≥ 15% below national

average

Low: Between 5 and 15% below

national average

Average: Within 5% of national

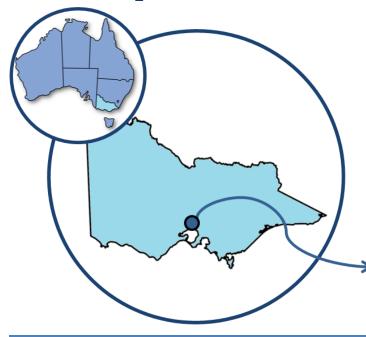
average

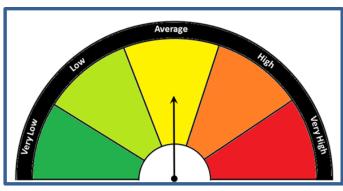
High: Between 5 and 15% above

national average

Very High: ≥ 15% above national average

Snapshot of Heart Failure in Melbourne





Population: 4,353,514

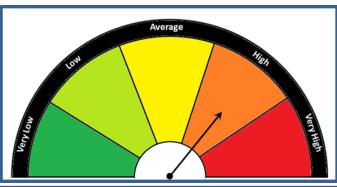
The number of HF cases in Melbourne is likely to be close to the national average (within 5% of the Australian average).

| | Men | Women | |
|--|----------------------|----------------------|--|
| Population Profile (Adults aged ≥45 years) | | | |
| All/New Cases of HF | 56,000/ <i>4,900</i> | 30,000/ <i>6,400</i> | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 14,000 | 15,000 | |
| Days of hospital stay | 94,000 | 101,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$293 million | \$250 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Geelong





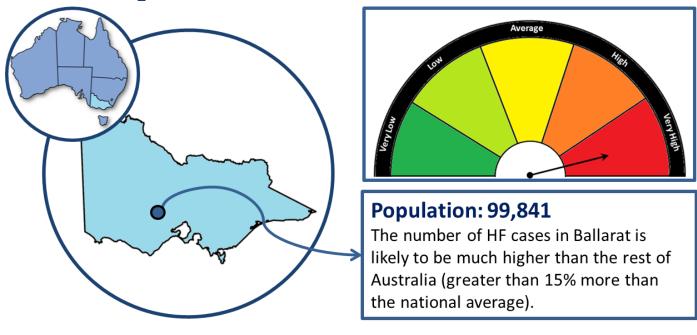
Population: 187,417

The number of HF cases in Geelong is likely to be higher than the rest of Australia (between 5% to 15% more than the national average).

| | Men | Women |
|--|----------------|-------------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 3,000/270 | 1,600/ <i>370</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 520 | 560 |
| Days of hospital stay | 3,600 | 3,900 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$12.7 million | \$10.6 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

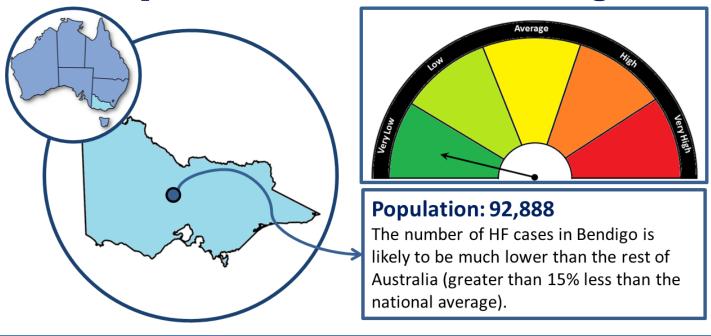
Snapshot of Heart Failure in Ballarat



| | Men | Women |
|-------------------------------|---------------|---------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 2,100/190 | 1,200/270 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 320 | 360 |
| Days of hospital stay | 2,200 | 2,500 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$8.4 million | \$7.1 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

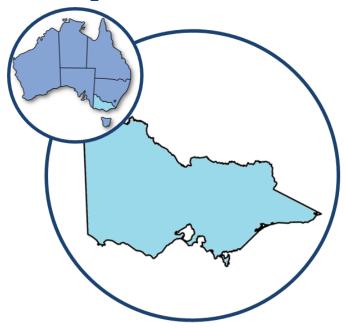
Snapshot of Heart Failure in Bendigo

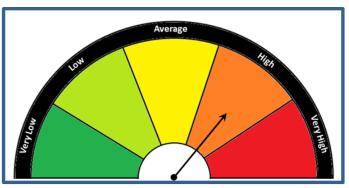


| | Men | Women |
|--|----------------|---------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 960/ <i>90</i> | 540/120 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 360 | 390 |
| Days of hospital stay | 2,500 | 2,700 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$6.6 million | \$6.2 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of Victoria





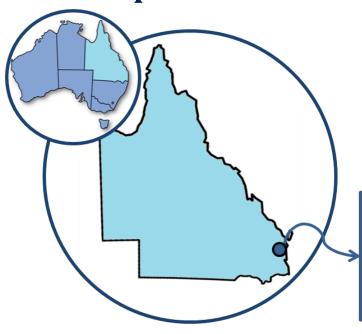
Population: 1,203,821

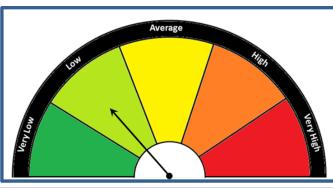
The number of HF cases in the rest of Victoria is likely to be higher than the rest of Australia (between 5% to 15% more than the national average).

| | Men | Women |
|-------------------------------|----------------------|----------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 23,000/ <i>2,200</i> | 12,000/2,600 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 5,000 | 4,800 |
| Days of hospital stay | 34,000 | 34,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$111 million | \$86.7 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Brisbane





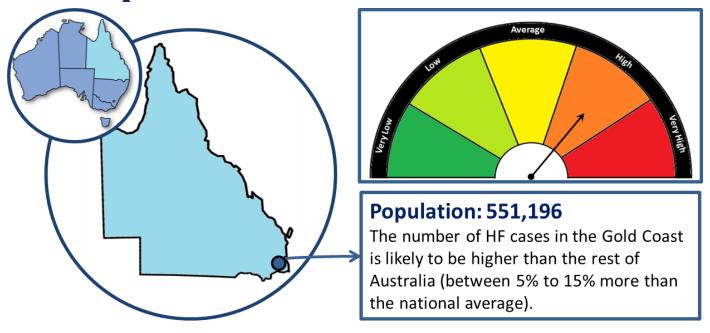
Population: 2,209,453

The number of HF cases in Brisbane is likely to be lower than the rest of Australia (between 5% to 15% less than the national average).

| | Men | Women |
|-------------------------------|---------------|----------------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 24,000/1,900 | 12,000/ <i>2,500</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 6,700 | 6,900 |
| Days of hospital stay | 45,000 | 47,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$135 million | \$114 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

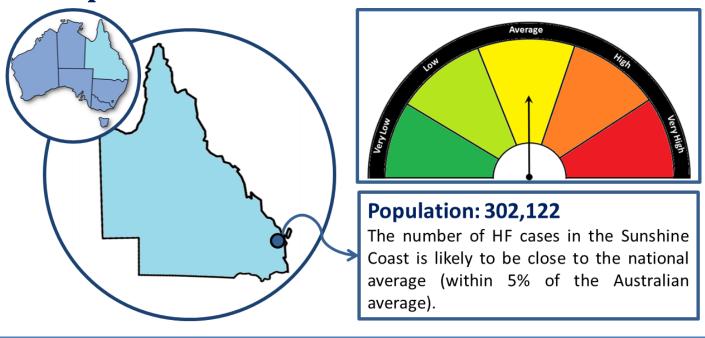
Snapshot of Heart Failure in Gold Coast



| | Men | Women |
|--|-------------------|-------------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 8,700/ <i>790</i> | 4,500/ <i>980</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,700 | 1,800 |
| Days of hospital stay | 12,000 | 12,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$39.9 million | \$32.5 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

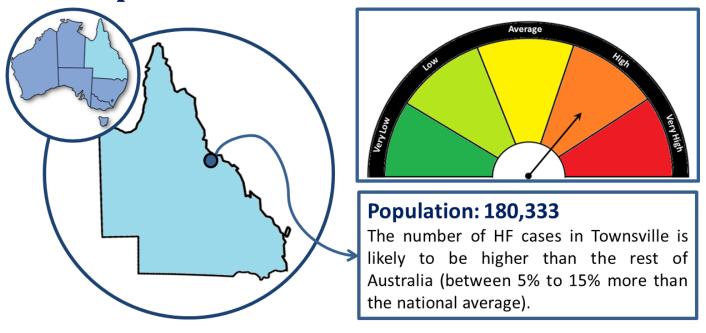
Snapshot of Heart Failure in Sunshine Coast



| | Men | Women |
|--|-------------------|-------------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 5,200/ <i>510</i> | 2,900/ <i>630</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,100 | 1,100 |
| Days of hospital stay | 7,400 | 7,900 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$24.6 million | \$20.5 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

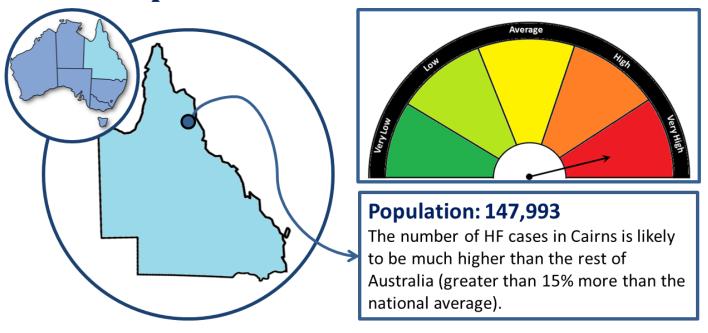
Snapshot of Heart Failure in Townsville



| | Men | Women |
|-------------------------------|----------------|---------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 2,300/180 | 1,100/220 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 500 | 500 |
| Days of hospital stay | 3,300 | 3,400 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$11.1 million | \$8.6 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

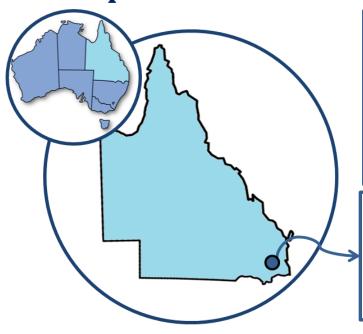
Snapshot of Heart Failure in Cairns

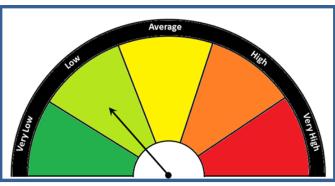


| | Men | Women |
|-------------------------------|------------------|---------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 2,500/190 | 1,000/200 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 480 | 450 |
| Days of hospital stay | 3,200 | 3,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$11.2 million | \$7.9 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Toowoomba





Population: 114,622

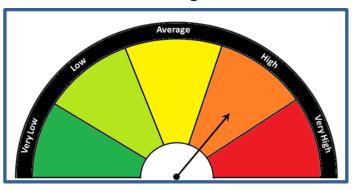
The number of HF cases in Toowoomba is likely to be lower than the rest of Australia (between 5% to 15% less than the national average).

| | Men | Women |
|--|-------------------|---------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 1,400/ <i>130</i> | 820/180 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 440 | 500 |
| Days of hospital stay | 3,000 | 3,500 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$8.4 million | \$8.2 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of Queensland





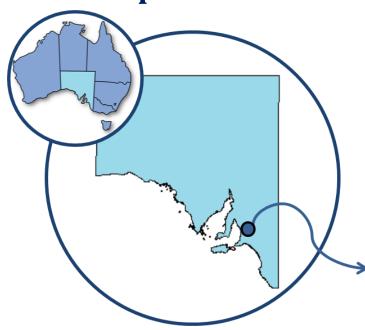
Population: 1,273,135

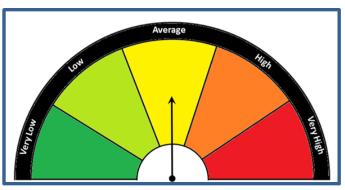
The number of HF cases in the rest of Queensland is likely to be higher than the rest of Australia (between 5% to 15% more than the national average).

| | Men | Women |
|-------------------------------|---------------|----------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 22,000/1,900 | 9,700/2000 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 5,700 | 5,200 |
| Days of hospital stay | 38,000 | 35,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$117 million | \$87.2 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Adelaide





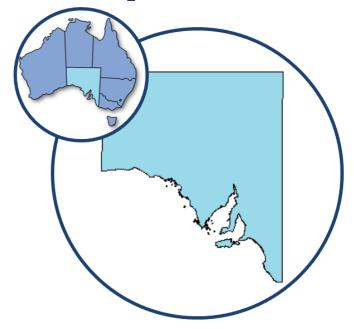
Population: 1,288,681

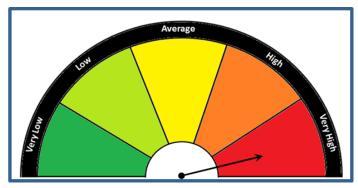
The number of HF cases in Adelaide is likely to be close to the national average (within 5% of the Australian average).

| | Men | Women |
|-------------------------------|----------------|----------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 19,000/1,700 | 11,000/2,300 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 4,300 | 4,700 |
| Days of hospital stay | 30,000 | 33,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$94.3 million | \$82.2 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of S.A.





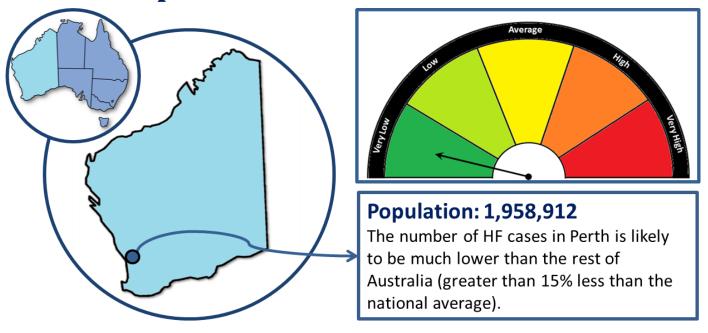
Population: 409,979

The number of HF cases in the Rest of South Australia is likely to be much higher than the rest of Australia (greater than 15% more than the national average).

| | Men | Women | |
|-------------------------------|--|-------------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 9,100/ <i>850</i> | 4,500/ <i>990</i> | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 1,800 | 1,700 | |
| Days of hospital stay | 12,000 | 12,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$41.2 million | \$30.7 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

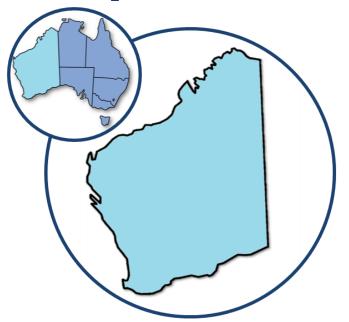
Snapshot of Heart Failure in Perth

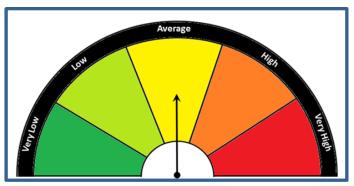


| | Men | Women | |
|-------------------------------|--|----------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 21,000/1,700 | 10,000/2,200 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 5,700 | 5,800 | |
| Days of hospital stay | 38,000 | 40,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$115 million | \$97.3 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of W.A.





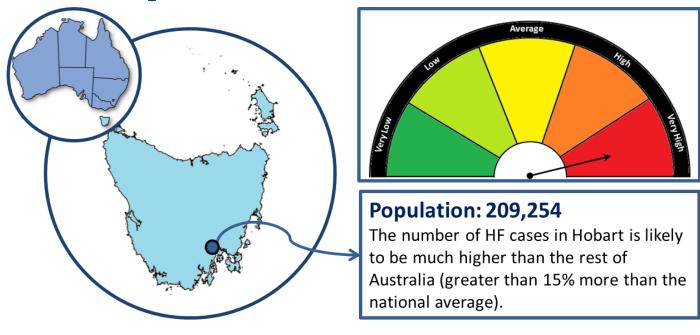
Population: 631,347

The number of HF cases in the rest of Western Australia is likely to be close to the national average (within 5% of the Australian average).

| | Men | Women | |
|-------------------------------|--|----------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 9,200/710 | 3,800/790 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 2,300 | 2,100 | |
| Days of hospital stay | 15,000 | 14,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$48.7 million | \$34.6 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

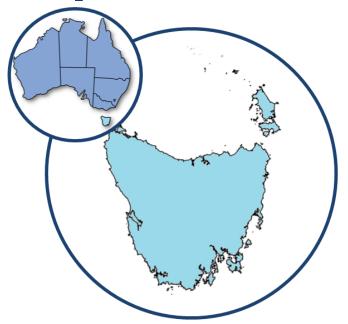
Snapshot of Heart Failure in Hobart

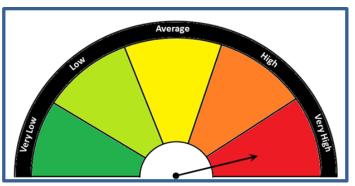


| | Men | Women |
|-------------------------------|-------------------|----------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 4,100/ <i>370</i> | 2,200/490 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 710 | 750 |
| Days of hospital stay | 4,900 | 5,200 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$17.6 million | \$14.3 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of Tasmania





Population: 307,332

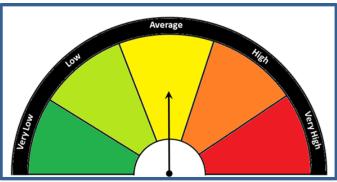
The number of HF cases in the rest of Tasmania is likely to be much higher than the rest of Australia (greater than 15% more than the national average).

| | Men | Women |
|-------------------------------|--------------------------|-------------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 7,100/ <i>660</i> | 3,500/ <i>750</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,100 | 1,000 |
| Days of hospital stay | 7,400 | 7,200 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$28.6 million | \$20.6 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Canberra





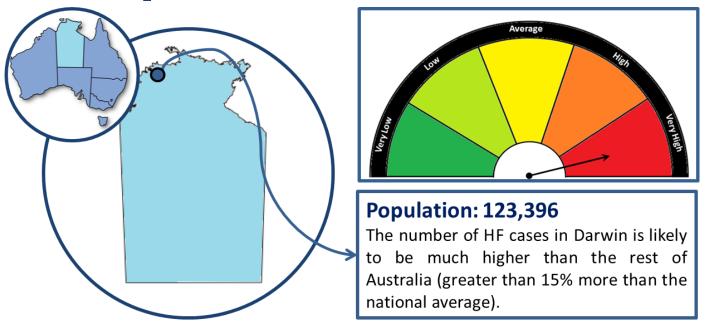
Population: 386,113

The number of HF cases in Canberra is likely to be close to the national average (within 5% of the Australian average).

| | Men | Women | |
|-------------------------------|--|------------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 4,900/ <i>400</i> | 2,400/510 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 830 | 870 | |
| Days of hospital stay | 5,600 | 5,900 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$20.7 million | \$16.2 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

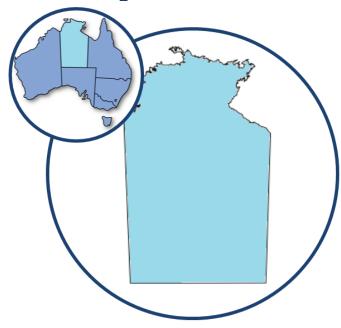
Snapshot of Heart Failure in Darwin

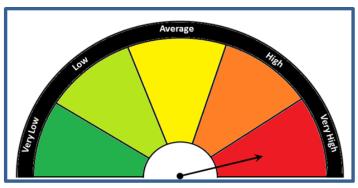


| | Men | Women | |
|-------------------------------|--|---------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 1,900/ <i>120</i> | 650/110 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 420 | 370 | |
| Days of hospital stay | 2,700 | 2,400 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$9.3 million | \$6.2 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of N.T.





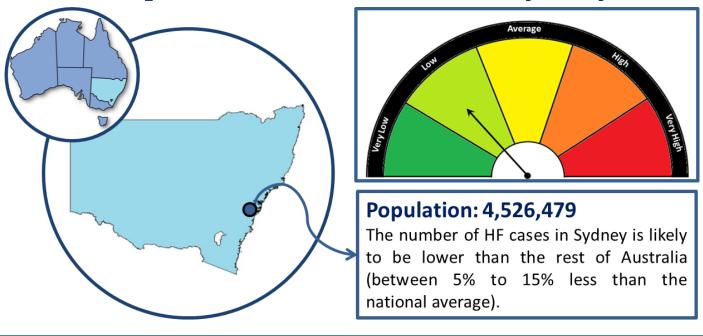
Population: 120,911

The number of HF cases in the rest of Northern Territory is likely to be much higher than the rest of Australia (greater than 15% more than the national average).

| | Men | Women |
|-------------------------------|----------------|----------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 4,800/270 | 1,400/230 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,100 | 850 |
| Days of hospital stay | 6,900 | 5,400 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$23.7 million | \$13.9 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

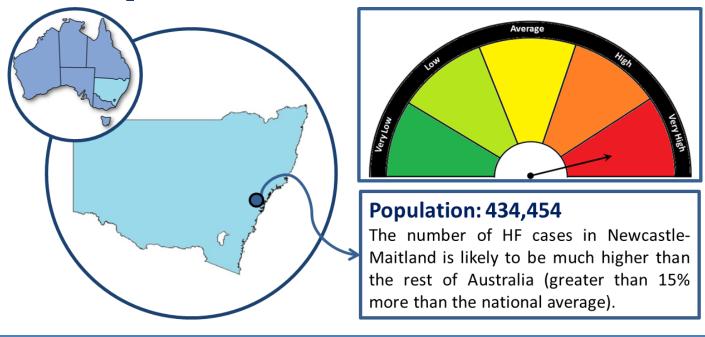
Snapshot of Heart Failure in Sydney



| | Men | Women | |
|-------------------------------|--|----------------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 52,000/ <i>4,400</i> | 27,000/ <i>5,700</i> | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 12,000 | 13,000 | |
| Days of hospital stay | 84,000 | 89,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$266 million | \$221 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

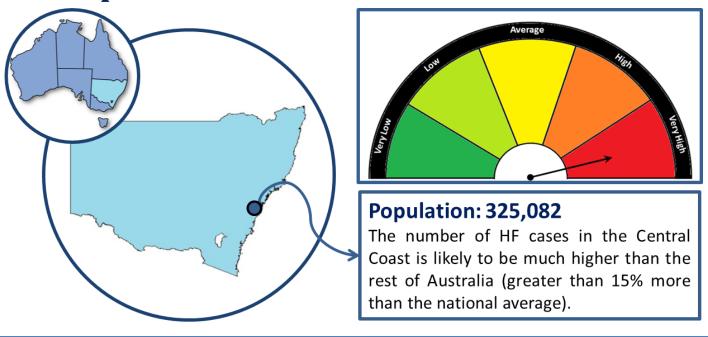
Snapshot of Heart Failure in Newcastle



| | Men | Women | |
|-------------------------------|--|--------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 8,200/ <i>750</i> | 4,500/1,000 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 1,500 | 1,600 | |
| Days of hospital stay | 10,000 | 11,000 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$36.3 million | \$30 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Central Coast

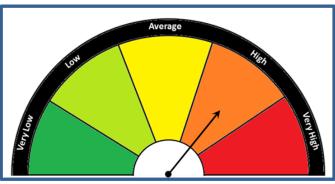


| | Men | Women |
|-------------------------------|-------------------|--------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 7,800/ <i>770</i> | 4,600/1,000 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,000 | 1,100 |
| Days of hospital stay | 7,200 | 8,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$29.3 million | \$24 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Wollongong





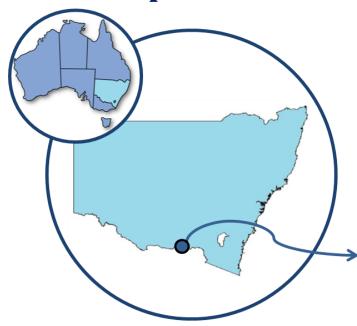
Population: 292,388

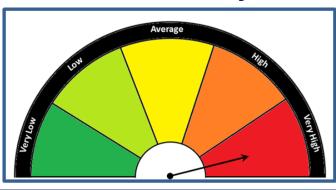
The number of HF cases in Wollongong is likely to be higher than the rest of Australia (between 5% to 15% more than the national average).

| | Men | Women |
|-------------------------------|-------------------|-------------------|
| Population Profile (Adults ag | ed ≥45 years) | |
| All/New Cases of HF | 5,100/ <i>480</i> | 2,700/ <i>610</i> |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 1,000 | 1,000 |
| Days of hospital stay | 6,900 | 7,200 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$23.2 million | \$19 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Albury





Population: 50,390

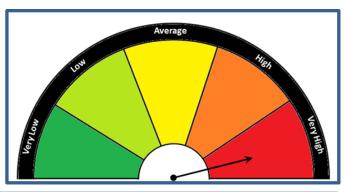
The number of HF cases in Albury is likely to be much higher than the rest of Australia (greater than 15% more than the national average).

| | Men | Women | |
|-------------------------------|--|---------------|--|
| Population Profile (Adults ag | Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 890/ <i>80</i> | 510/110 | |
| Hospital Burden (per annum) | | | |
| All Hospital Admissions | 150 | 160 | |
| Days of hospital stay | 1,000 | 1,100 | |
| Health Care Costs (per annum) | | | |
| Total health care costs | \$3.7 million | \$3.1 million | |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.

Snapshot of Heart Failure in Rest of N.S.W.





Population: 1,988,891

The number of HF cases in rest of New South Wales is likely to be much higher than the rest of Australia (greater than 15% more than the national average).

| | Men | Women |
|--|----------------------|---------------|
| Population Profile (Adults aged ≥45 years) | | |
| All/New Cases of HF | 44,000/ <i>4,200</i> | 23,000/5,000 |
| Hospital Burden (per annum) | | |
| All Hospital Admissions | 8,200 | 8,100 |
| Days of hospital stay | 57,000 | 57,000 |
| Health Care Costs (per annum) | | |
| Total health care costs | \$195 million | \$152 million |

Commentary on Methods: Consistent with previously published methodology¹, we used population data from the Australian Bureau of Statistics² to apply key estimates³⁻¹⁰ of the pattern and burden of HF (preference given to Australian data) on an age and sex-specific basis. The NHFA has produced a "heat" map of the likely prevalence of cardiovascular disease (including HF) around the country, ¹¹ as well as a similar map for heart failure admissions. ¹² These data were used with our own estimates to produce regional-specific figures that better reflect likely variations in the pattern of HF across the country. In Northern Territory, where cardiovascular disease prevalence estimates were not available, all adjustments were based on the HF admissions data.