

CVDPrevent Review

SHAUN GREEN

November 2023



CVDPREVENT

Cardiovascular Disease Prevention Audit (CVDPREVENT) is a national primary care audit that automatically extracts routinely held GP data. This tool provides open access to the data, with clear, actionable insights for those tasked with improving cardiovascular health in England.

[Home | CVDPREVENT](#)

High blood pressure and cholesterol are leading causes of heart attack and stroke (cardiovascular disease – CVD) in England, common conditions that account for a quarter of premature deaths. CVD is also a major driver of health inequalities, explaining around 20% of the life expectancy gap between most affluent and most deprived communities. Treatment to lower blood pressure and cholesterol is highly effective at preventing these serious events that are life changing for individuals and their families, and very expensive in terms of NHS and social care costs. Despite this, large numbers of people with high blood pressure or high cholesterol do not receive the recommended levels of treatment, and as a result remain at high risk of having a heart attack or stroke.

Scale of the problem

Cardiovascular disease (CVD)
is the leading cause of death worldwide

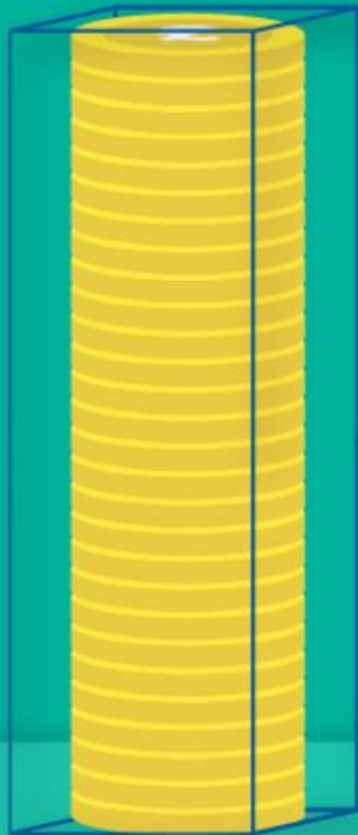
In England, CVD causes

1 in **4** deaths

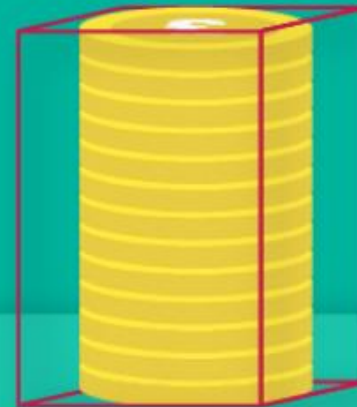
which equates to

1 death every 4 minutes

Costs of cardiovascular disease to the NHS and wider society



Estimated
**£15.8
billion**
per year
Non-healthcare
costs



Healthcare costs
alone in England
stand at an
estimated
**£7.4
billion**
per year

Why invest in cardiovascular disease prevention

PHE estimates that optimising detection of risk factors for CVD and the uptake of anticoagulants, antihypertensives and statins in line with the ambitions, could prevent:



150,000
CVD events

● NOW

IN 10 YEARS ●

Over 10 years the societal return on investment is estimated to be

£2.30 for every **£1** spent

including the value placed on improved health

Can Somerset reach the 10 year CVD ambitions set in 2019?

10 year cardiovascular disease ambitions for England

Atrial fibrillation (AF)



85%

of the expected number of people with AF are detected by 2029

90%

of patients with AF who are already known to be at high risk of a stroke to be adequately anticoagulated by 2029

High blood pressure



80%

of the expected number of people with high blood pressure are diagnosed by 2029

80%

of the total number of people already diagnosed with high blood pressure are treated to target as per NICE guidelines by 2029

High cholesterol



75%

of people aged 40 to 74 have received a formal validated CVD risk assessment and cholesterol reading recorded on a primary care data system in the last five years by 2029

45%

of people aged 40 to 74 identified as having a 20% or greater 10-year risk of developing CVD in primary care are treated with statins by 2029

25%

of people with Familial Hypercholesterolaemia (FH) are diagnosed and treated optimally according to the NICE FH Guideline by 2024

The ambitions are underpinned by the need to do more to reduce health inequalities

Reduce the gap significantly in amenable CVD deaths between the most and least deprived areas by 2029

CVDPREVENT

Quality Improvement Tool BETA

See an overview of the data specific to your STP, CCG, PCN or Practice.

Filter by condition:

Filter indicator list by condition type

AF Atrial Fibrillation	HYP Hypertension	FH Familial Hypercholes...	CHOL Cholesterol	CKD Chronic Kidney Dise...	CVD Cardiovascular Disea...	SMOK Smoking	DM/NDH Diabetes
----------------------------------	----------------------------	--------------------------------------	----------------------------	--------------------------------------	---------------------------------------	------------------------	---------------------------

Eclipse Live – NHS pathways has patient level searches set up in every practice which will identify;

- Patients not currently coded with a CVD condition
- Patients currently not treated to target.
- Patients with missing monitoring
- Patients where treatment is potentially creating a clinical risk eg DOAC and potential GI Bleed

Untreated AF

Current detection and management of **Atrial fibrillation (AF)**



Somerset AF prevalence

ATRIAL FIBRILLATION DIAGNOSIS

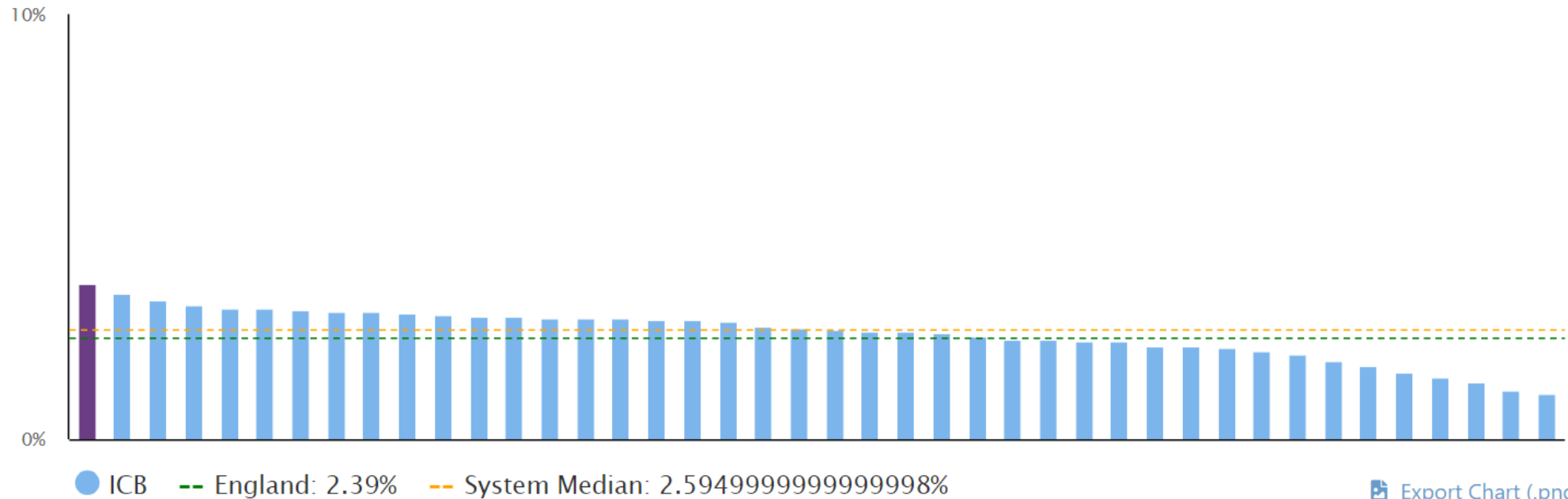
CVDP001AF: Prevalence of GP recorded atrial fibrillation in patients aged 18 and over

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



Export Chart (.png)

Untreated AF

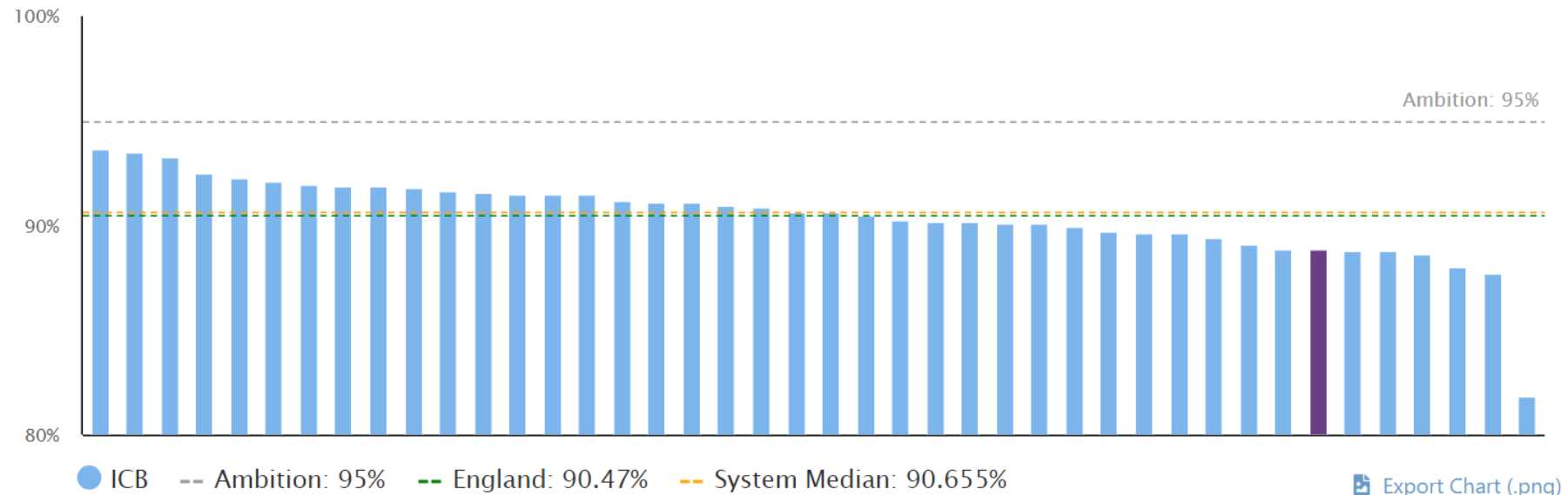
ATRIAL FIBRILLATION MANAGEMENT

CVDP002AF: Percentage of patients aged 18 and over with GP recorded atrial fibrillation and a record of a CHA2DS2-VASc score of 2 or more, who are currently treated with anticoagulation drug therapy

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs
June 2023

Chart Table

Filter ▾



Export Chart (.png)

Practice level treated AF

ATRIAL FIBRILLATION MANAGEMENT

CVDP002AF: Percentage of patients aged 18 and over with GP recorded atrial fibrillation and a record of a CHA2DS2-VASc score of 2 or more, who are currently treated with anticoagulation drug therapy

Area Breakdown: All Practices within NHS Somerset Integrated Care Board

June 2023

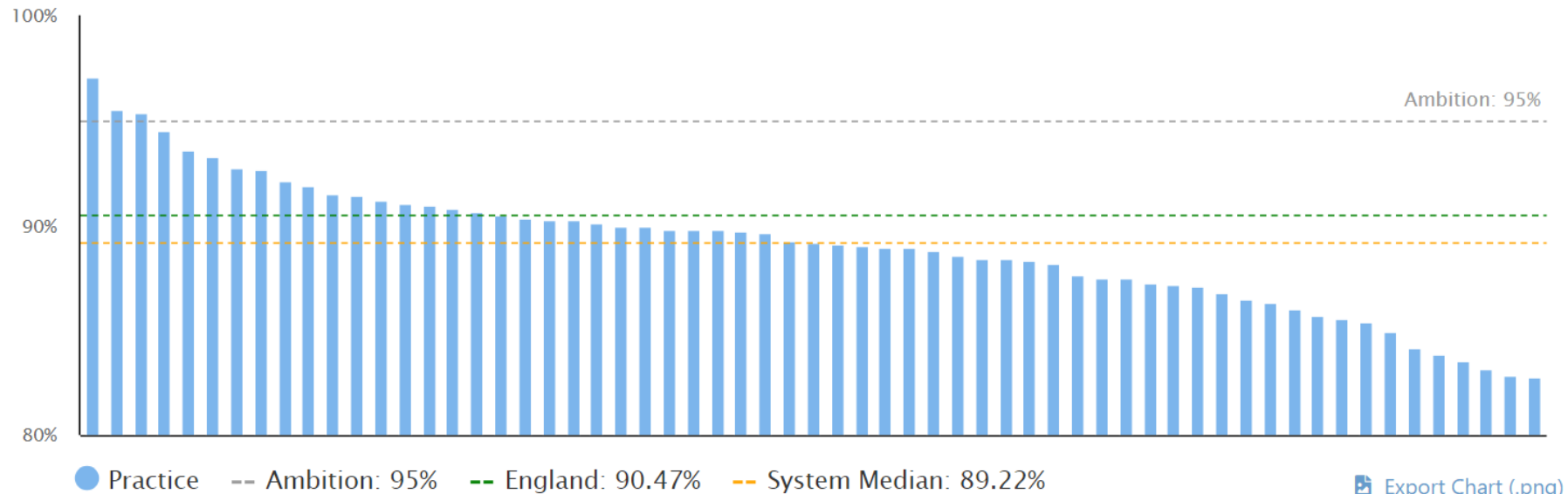
Chart Table

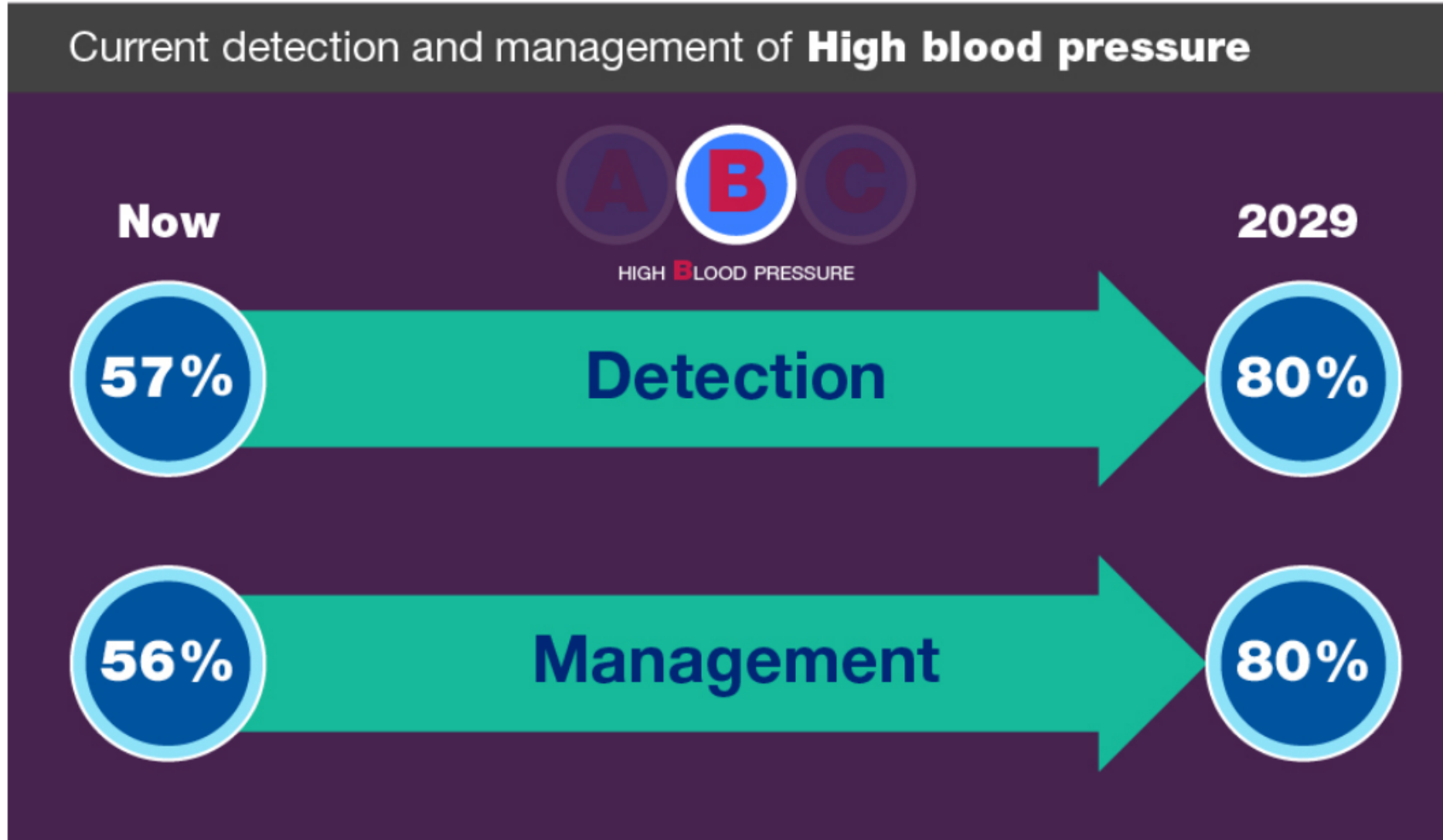
Filter

Sub-ICB

PCN

Practice



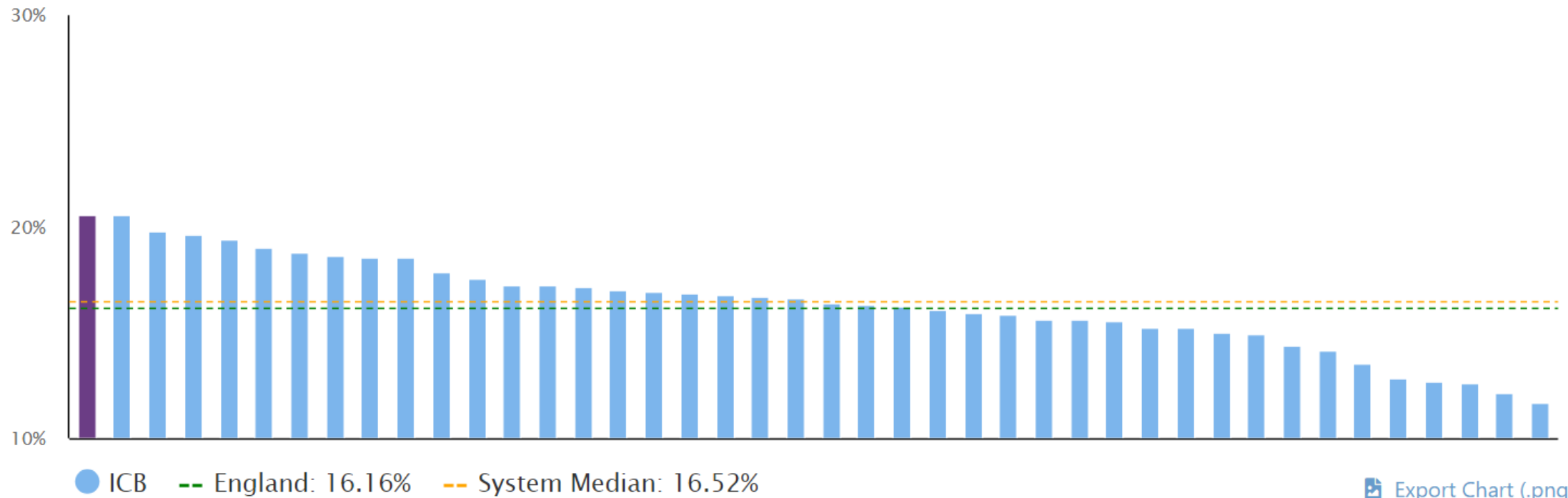


System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▼



Export Chart (.png)

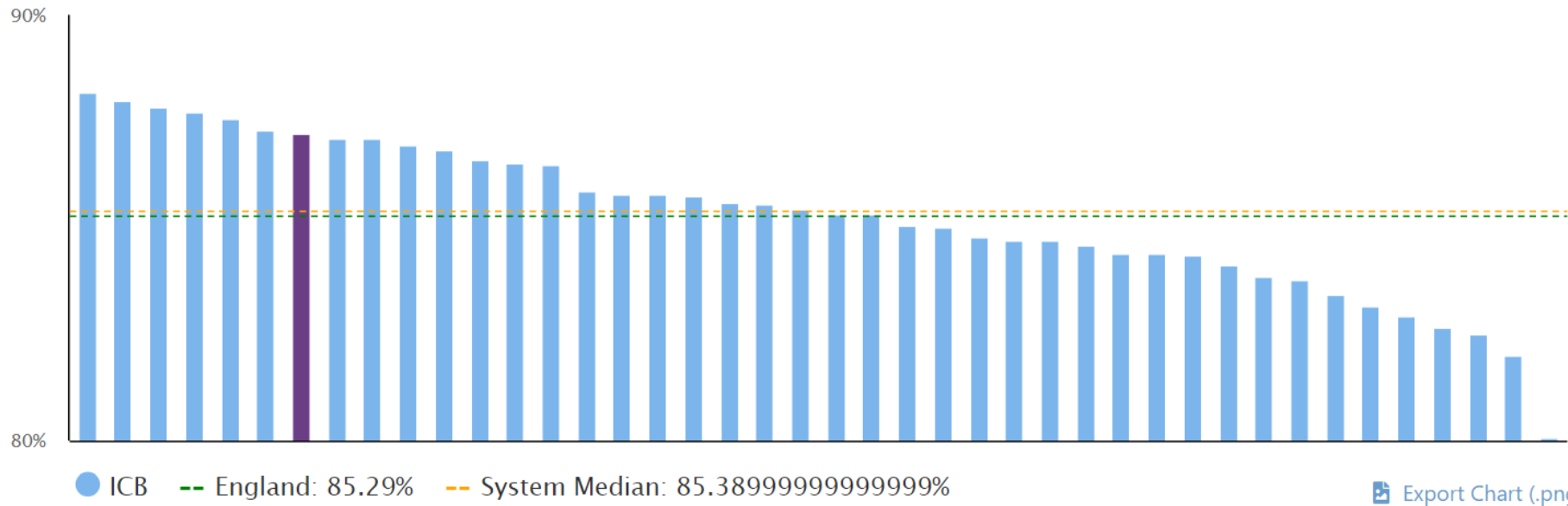
BP monitoring of hypertensive patients

CVDP004HYP: Percentage of patients aged 18 and over with GP recorded hypertension, who have had a blood pressure reading within the preceding 12 months

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs
June 2023

Chart Table

Filter ▾



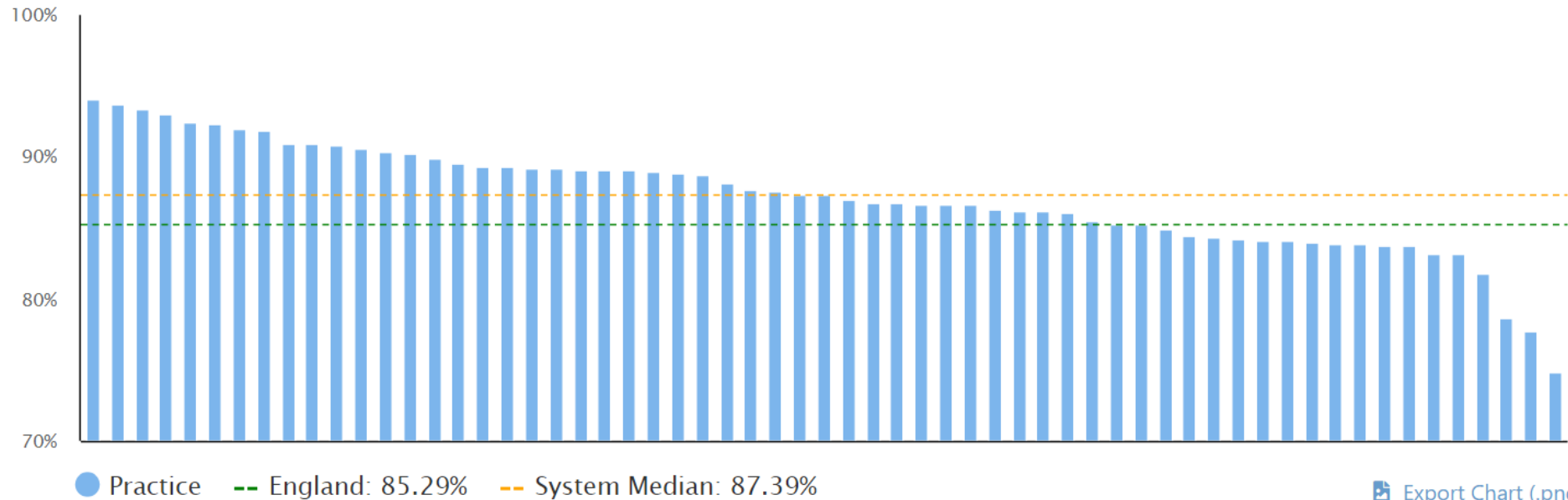
Practice level BP monitoring

CVDP004HYP: Percentage of patients aged 18 and over with GP recorded hypertension, who have had a blood pressure reading within the preceding 12 months

Area Breakdown: All Practices within NHS Somerset Integrated Care Board
June 2023

Chart Table
Filter ▾

Sub-ICB PCN Practice



Export Chart (.png)

BP treatment to target

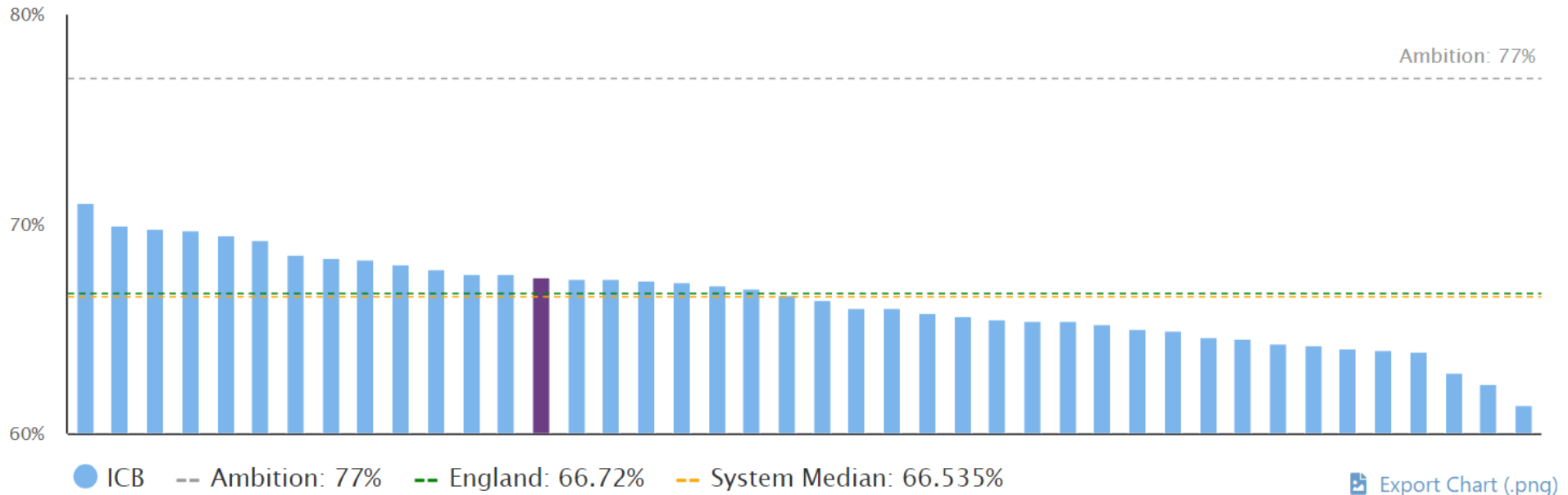
CVDP007HYP: Percentage of patients aged 18 and over, with GP recorded hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is below the age appropriate treatment threshold.

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



Practice level BP treated to target

CVDP007HYP: Percentage of patients aged 18 and over, with GP recorded hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is below the age appropriate treatment threshold.

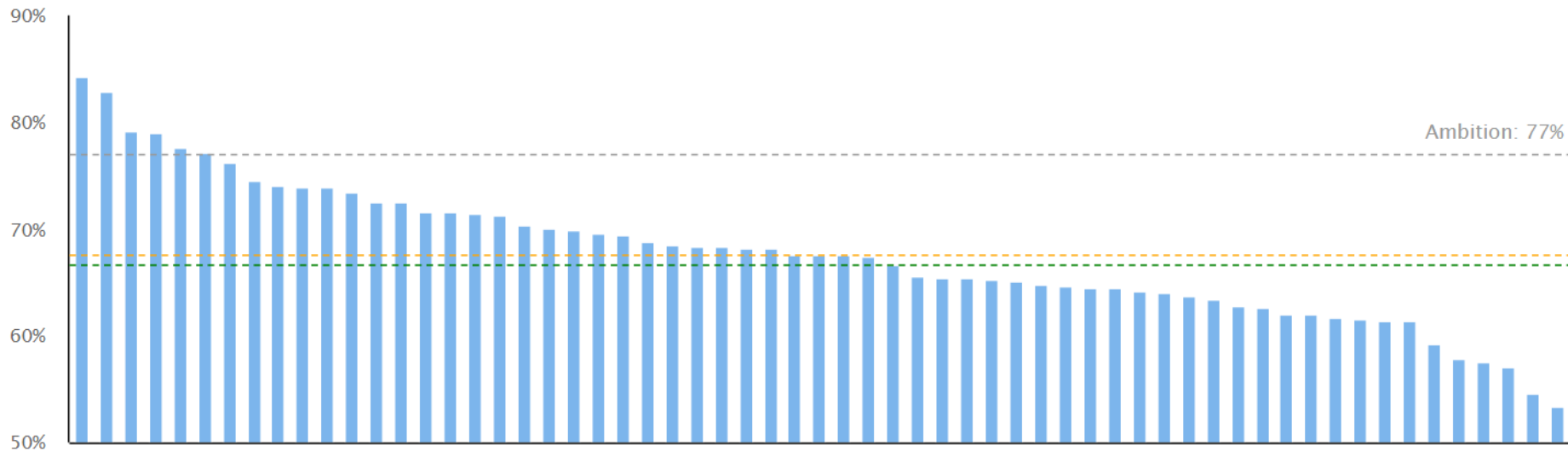
Area Breakdown: All Practices within NHS Somerset Integrated Care Board

June 2023

Chart Table

Filter ▾

Sub-ICB PCN Practice



● Practice -- Ambition: 77% - - England: 66.72% - - System Median: 67.59%

Export Chart (.png)

Practices with lowest % of patients treated to target

CVDP007HYP: Percentage of patients aged 18 and over, with GP recorded hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is below the age appropriate treatment threshold.

NIHR Alert: Blood pressure treatment: the risks may be as great as the benefits in older people with frailty

Expert commentaries provided on study that found among people aged ≥ 80 years, BP medication was as likely to lead to serious fall as to prevent a stroke or heart attack. Findings could inform medication reviews & conversations between clinicians & patients about risks vs benefits.

In Somerset eclipse shows

37% of our existing hypertension patients are aged >75

25% of our existing hypertensive patients have some level of coded frailty (NB some practices have low levels of frailty recorded)

Practices with lowest % of patients treated to target

CVDP007HYP: Percentage of patients aged 18 and over, with GP recorded hypertension, in whom the last blood pressure reading (measured in the preceding 12 months) is below the age appropriate treatment threshold.

Comorbidities of our Hypertensive patients include

Condition Type	No Patients	Percentage
Mental Health	1,166	1.06%
Current Smoker	17,272	15.66%
Atrial Fibrillation	12,102	10.97%
Hypothyroidism	10,545	9.56%
Dementia	2,986	2.71%
Epilepsy	2,006	1.82%
COPD / Asthma	20,351	18.45%
Diabetes	24,488	22.20%
Hypertension	110,311	100.00%
Vascular Disease	14,129	12.81%

System level lipid treatment of QRISK 10% patients

HYPERTENSION MANAGEMENT

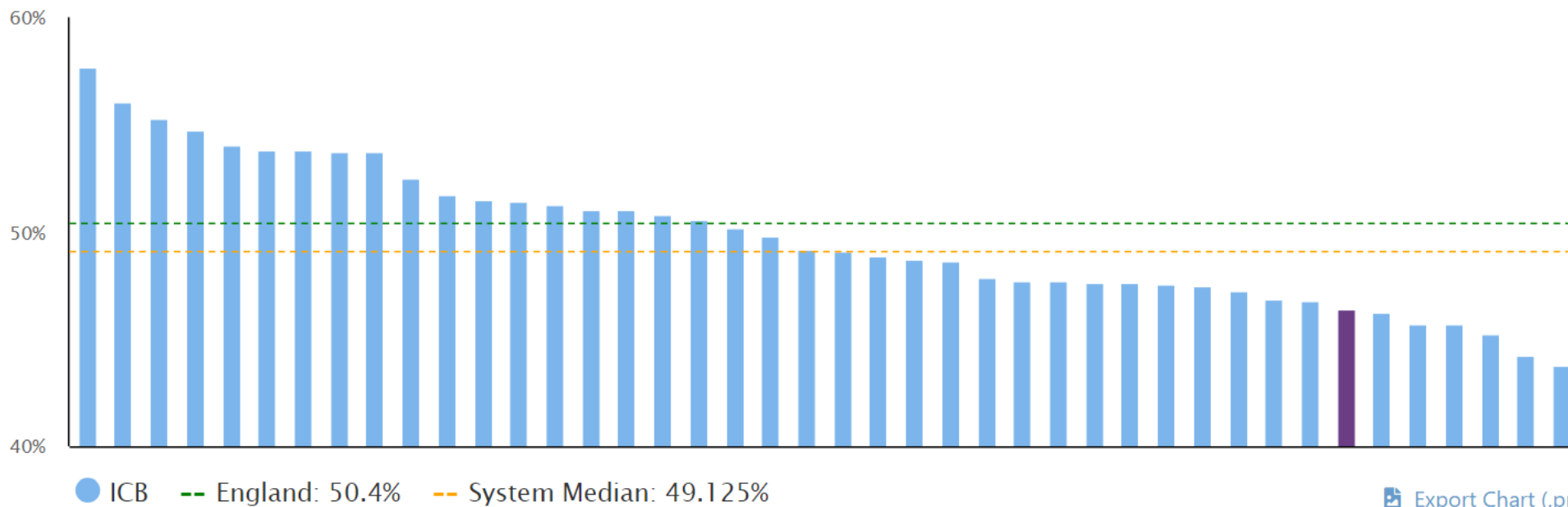
CVDP006CHOL: Percentage of patients aged 18 and over with no GP recorded CVD and a GP recorded QRISK score of 10% or more, on lipid lowering therapy

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



practice level lipid treatment of QRISK 10% patients

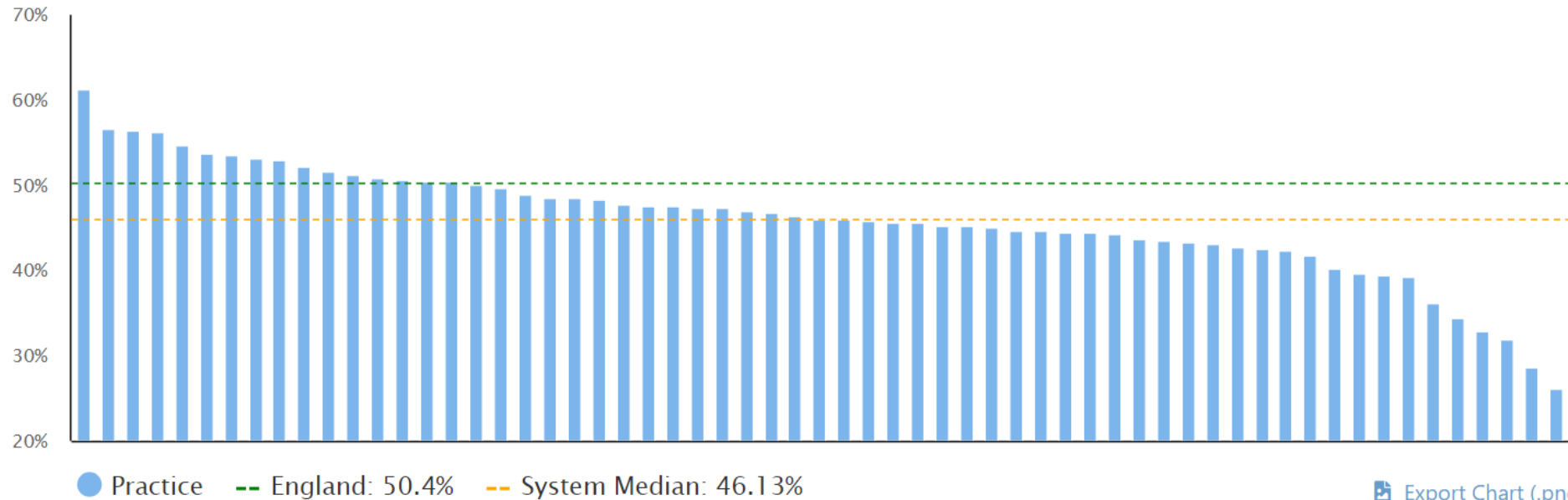
HYPERTENSION MANAGEMENT

CVDP006CHOL: Percentage of patients aged 18 and over with no GP recorded CVD and a GP recorded QRISK score of 10% or more, on lipid lowering therapy

Area Breakdown: All Practices within NHS Somerset Integrated Care Board
June 2023

Chart Table
Filter ▼

Sub-ICB PCN Practice



Export Chart (.png)

System level lipid treatment of QRISK 20% patients

HYPERTENSION MANAGEMENT

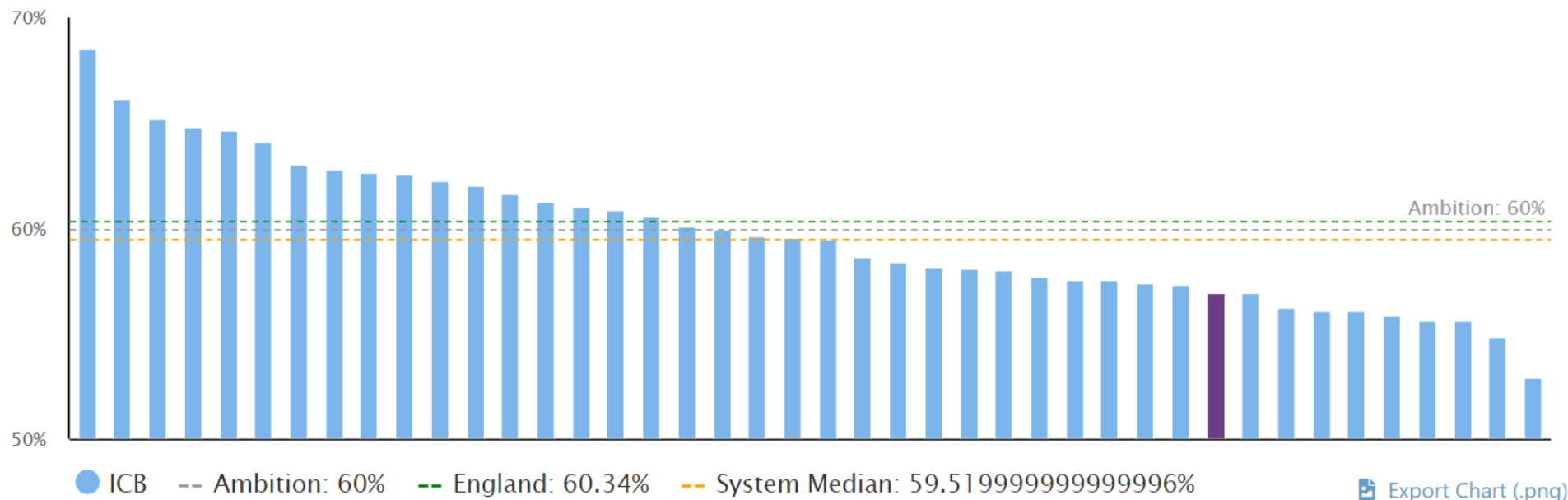
CVDP003CHOL: Percentage of patients aged 18 and over with no GP recorded CVD and a GP recorded QRISK score of 20% or more, on lipid lowering therapy

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



practice level lipid treatment of QRISK 20% patients

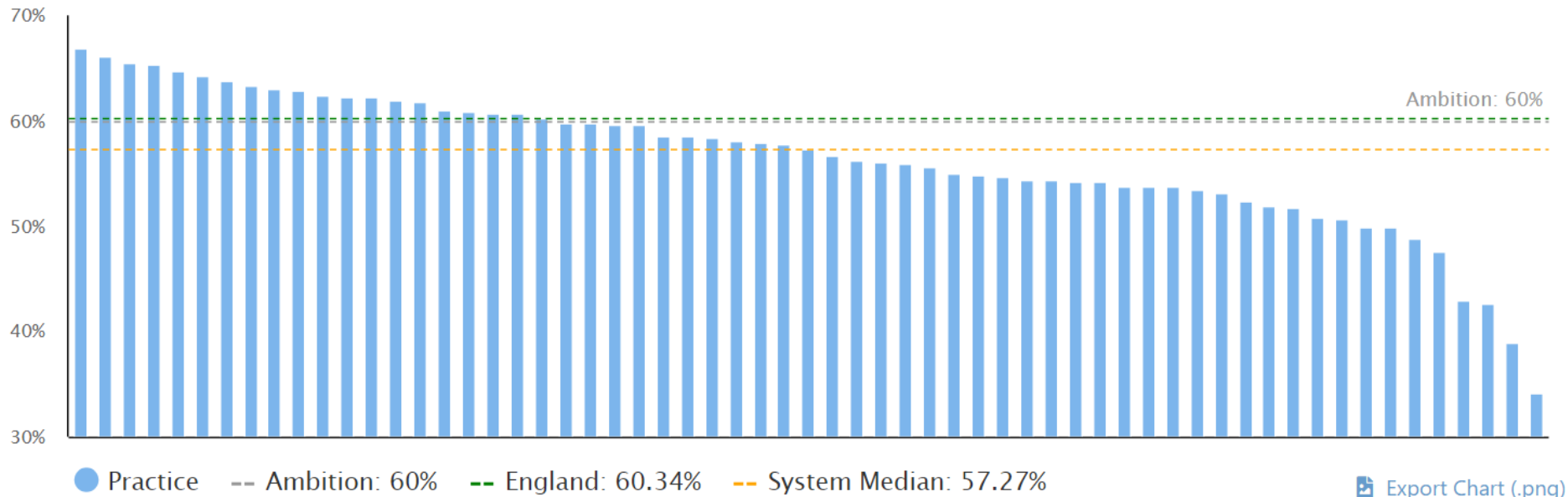
HYPERTENSION MANAGEMENT

CVDP003CHOL: Percentage of patients aged 18 and over with no GP recorded CVD and a GP recorded QRISK score of 20% or more, on lipid lowering therapy

Area Breakdown: All Practices within NHS Somerset Integrated Care Board
June 2023

Chart Table
Filter ▼

Sub-ICB PCN Practice



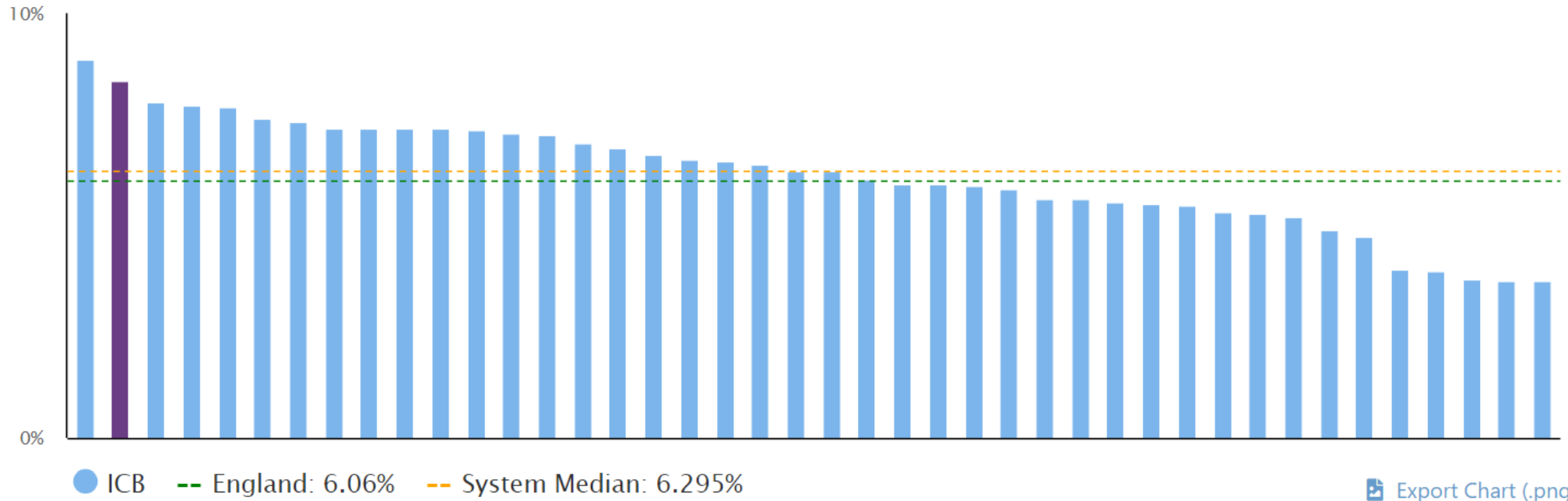
CVDP001CVD: Prevalence of GP recorded cardiovascular disease (wide definition) in patients aged 18 and over

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



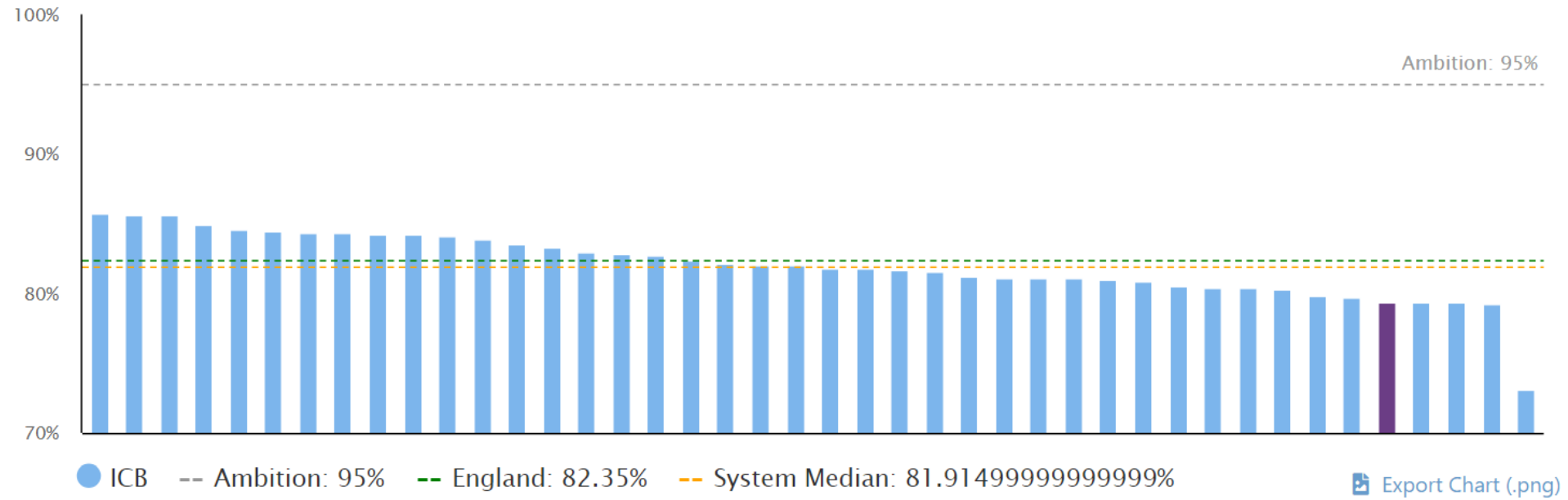
HYPERTENSION MANAGEMENT

CVDP009CHOL: Percentage of patients aged 18 and over with GP recorded CVD (narrow definition), who are currently treated with lipid lowering therapy.

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs
June 2023

[Chart](#) [Table](#)

Filter ▼



practice level lipid treatment of existing CVD patients

HYPERTENSION MANAGEMENT

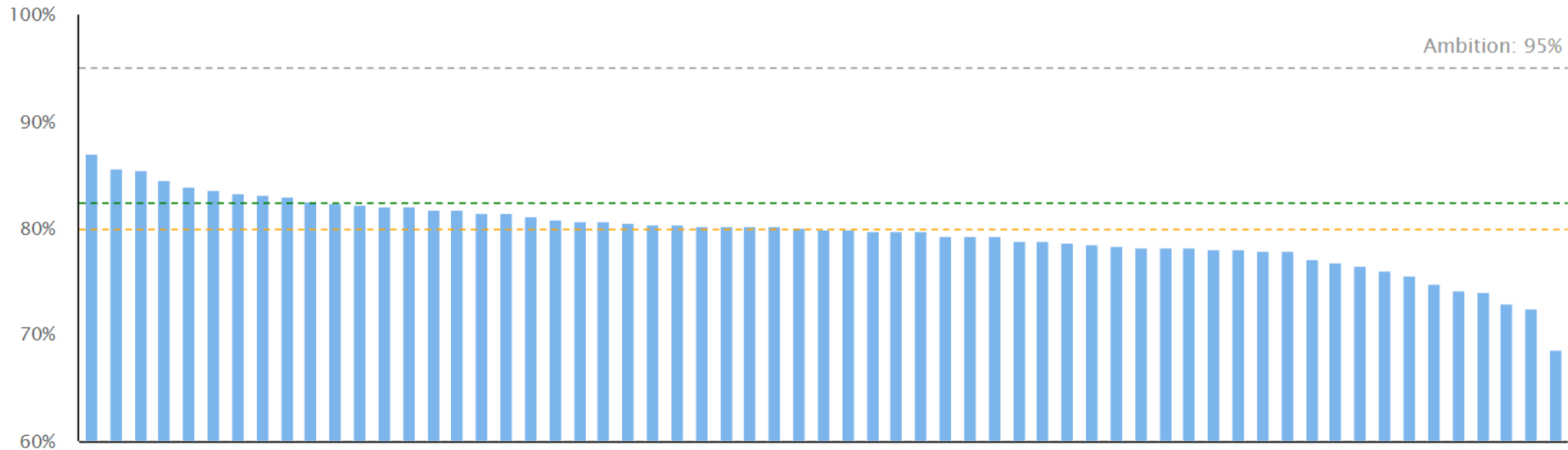
CVDP009CHOL: Percentage of patients aged 18 and over with GP recorded CVD (narrow definition), who are currently treated with lipid lowering therapy.

Area Breakdown: All Practices within NHS Somerset Integrated Care Board
June 2023

Chart Table

Filter ▾

Sub-ICB PCN Practice



● Practice -- Ambition: 95% - - England: 82.35% - - System Median: 79.87%

Export Chart (.png)

Comorbidities of existing CVD patients

Secondary Prevention of Coronary Heart Disease [Oct 23] comorbidities

Condition Type	No Patients	Percentage
Current Smoker	4,422	19.15%
Hypertension	13,733	59.47%
Vascular Disease	19,844	85.93%
Mental Health	236	1.02%
Atrial Fibrillation	4,507	19.52%
Hypothyroidism	2,354	10.19%
Dementia	896	3.88%
Epilepsy	435	1.88%
COPD / Asthma	4,810	20.83%
Diabetes	6,708	29.05%

System level achievement of lipid targets in existing CVD patients

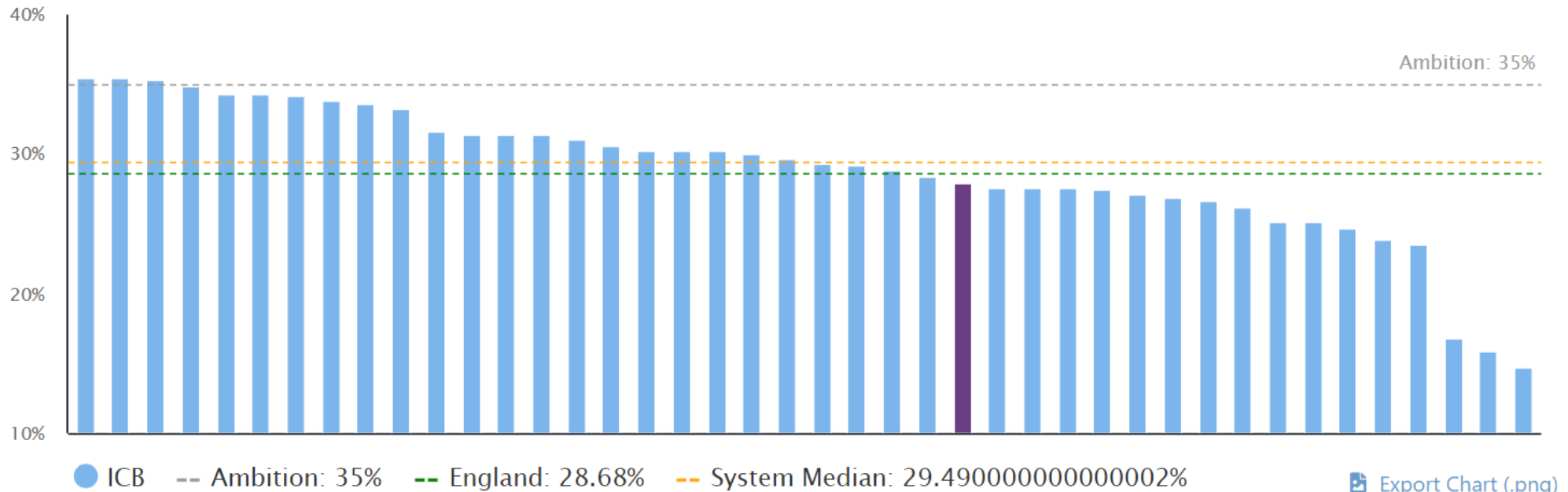
CVDP007CHOL: Percentage of patients aged 18 and over, with GP recorded CVD (narrow definition), in whom the most recent blood cholesterol level (measured in the preceding 12 months) is non-HDL cholesterol less than 2.5mmol/l or LDL-cholesterol less than 1.8mmol/l

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▼



Practice level achievement of lipid targets in existing CVD patients

CVDP007CHOL: Percentage of patients aged 18 and over, with GP recorded CVD (narrow definition), in whom the most recent blood cholesterol level (measured in the preceding 12 months) is non-HDL cholesterol less than 2.5mmol/l or LDL-cholesterol less than 1.8mmol/l

Area Breakdown: All Practices within NHS Somerset Integrated Care Board

June 2023

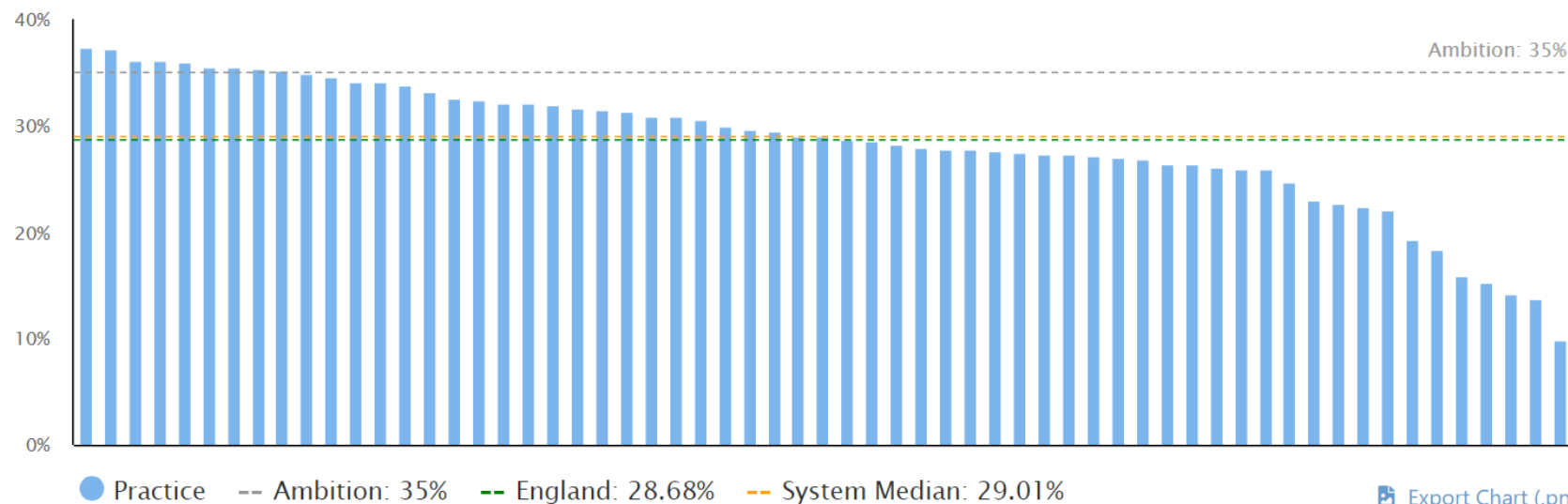
Chart Table

Filter ▾

Sub-ICB

PCN

Practice



Familial Hypercholesterolaemia (FH).

FH affects approximately between 1 in 250 to 1 in 500 people in the UK, which is about 130,000 to 260,000 people, including children. If untreated, about 50% of men and 30% of women with FH will develop coronary heart disease by the time they are 55.

DIAGNOSIS

CVDP002FH: Prevalence of GP recorded possible, probable or confirmed familial hypercholesterolaemia, all ages (rate per 1,000 patients)

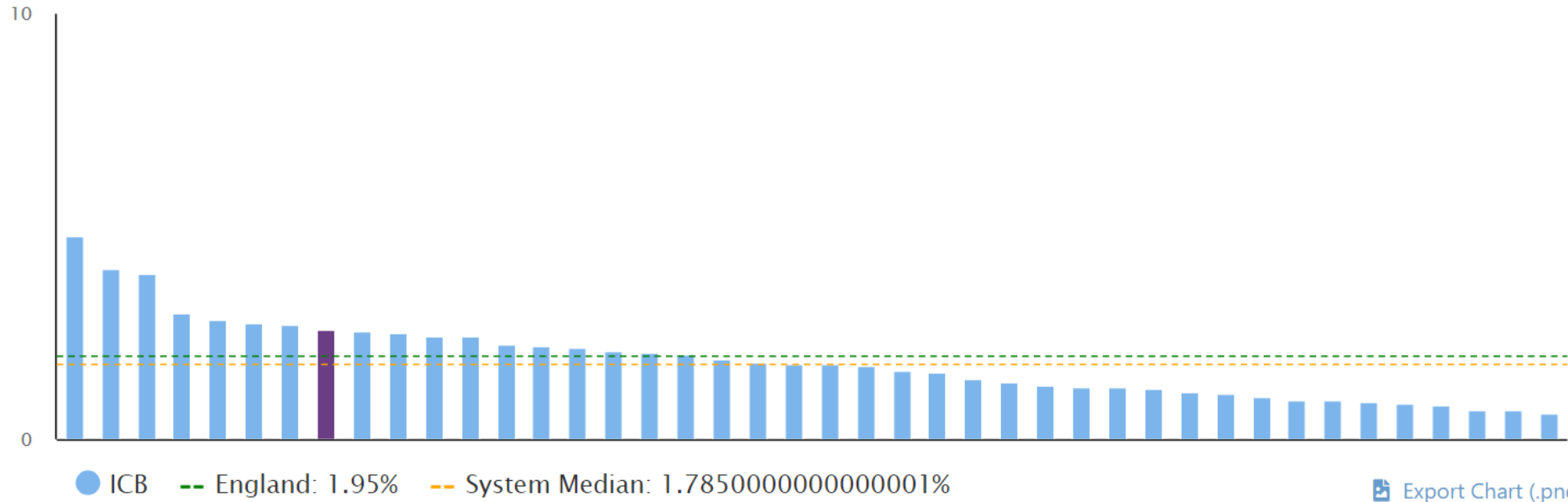
System Level Comparison: NHS Somerset Integrated Care Board against other

ICBs

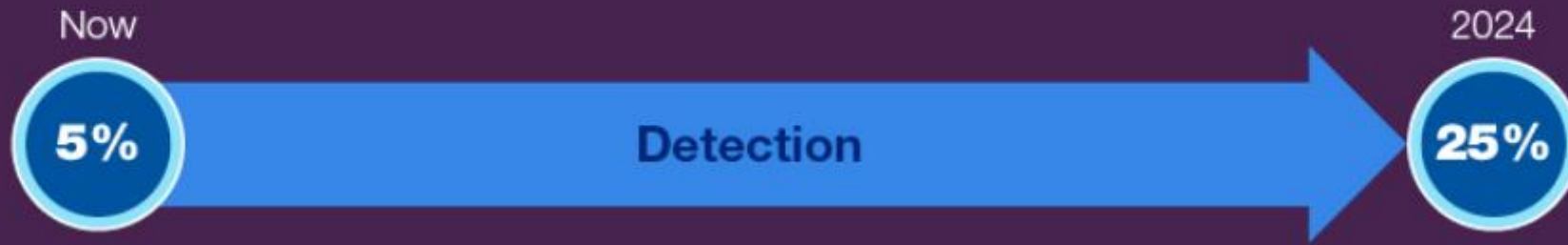
June 2023

Chart Table

Filter ▾



Familial Hypercholesterolaemia (FH)



CVDP002FH: Prevalence of GP recorded possible, probable or confirmed familial hypercholesterolaemia, all ages (rate per 1,000 patients)



CVD-04: Percentage of patients aged 29 and under with a total cholesterol greater than 7.5 OR aged 30 and over with a total cholesterol greater than 9.0 who have been referred for assessment for familial hypercholesterolaemia

12.6% **1810**
261 / 2,071

DIAGNOSIS

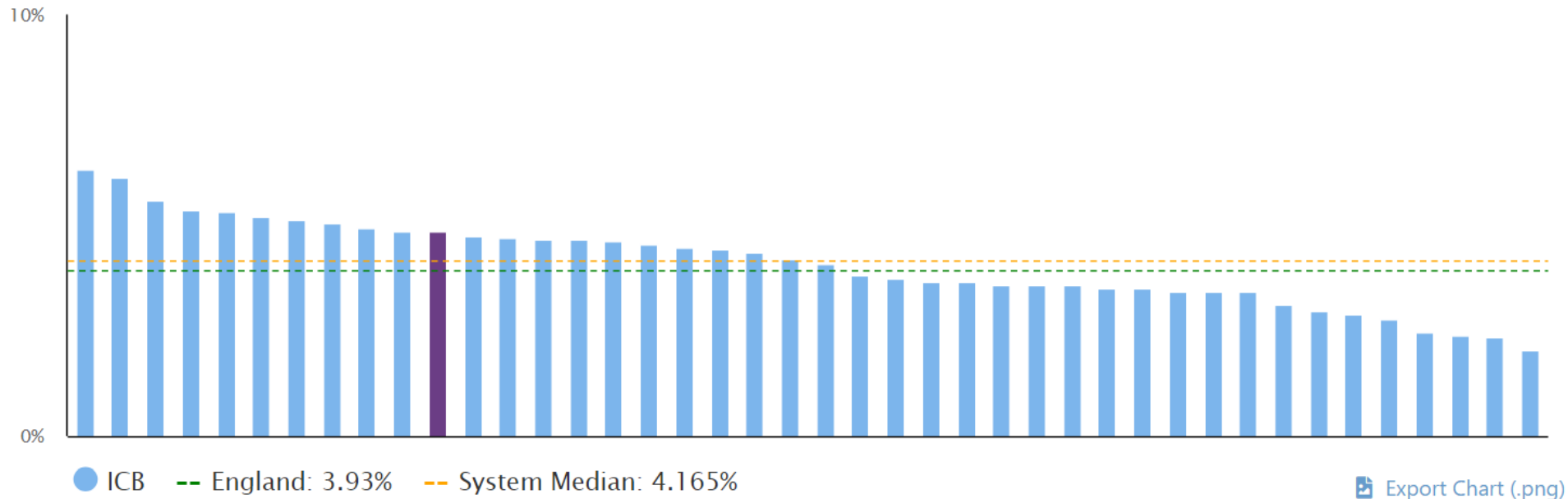
CVDP001CKD: Prevalence of GP recorded CKD (G3a to G5) in patients aged 18 and over

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



Export Chart (.png)

CHRONIC KIDNEY DISEASE IDENTIFICATION

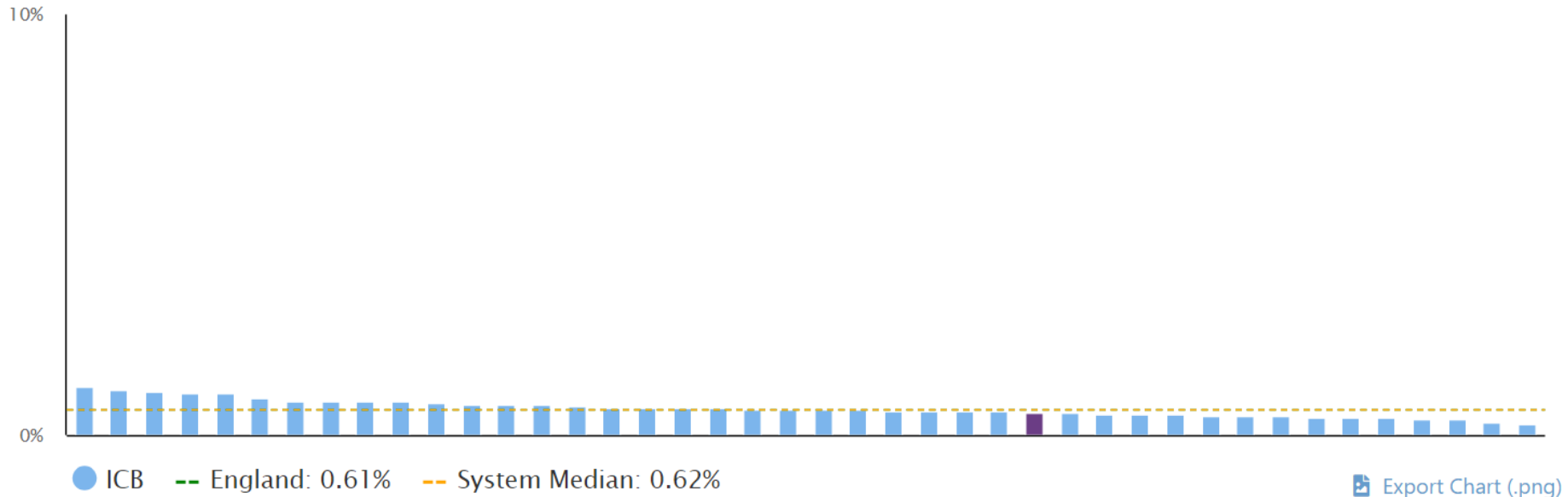
CVDP002CKD: Percentage of GP registered patients aged 18 and over, with 2 low eGFRs with no GP recorded CKD (G3a to G5)

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



Export Chart (.png)

CHRONIC KIDNEY DISEASE MONITORING

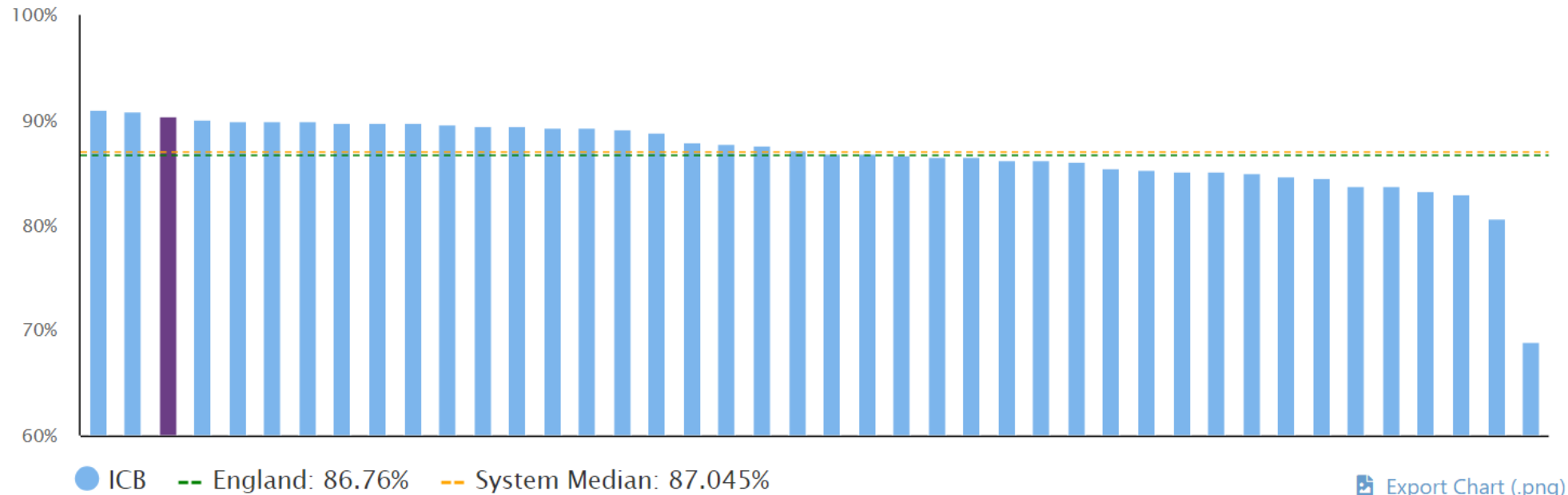
CVDP006CKD: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5), with a record of an eGFR test in the preceding 12 months

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



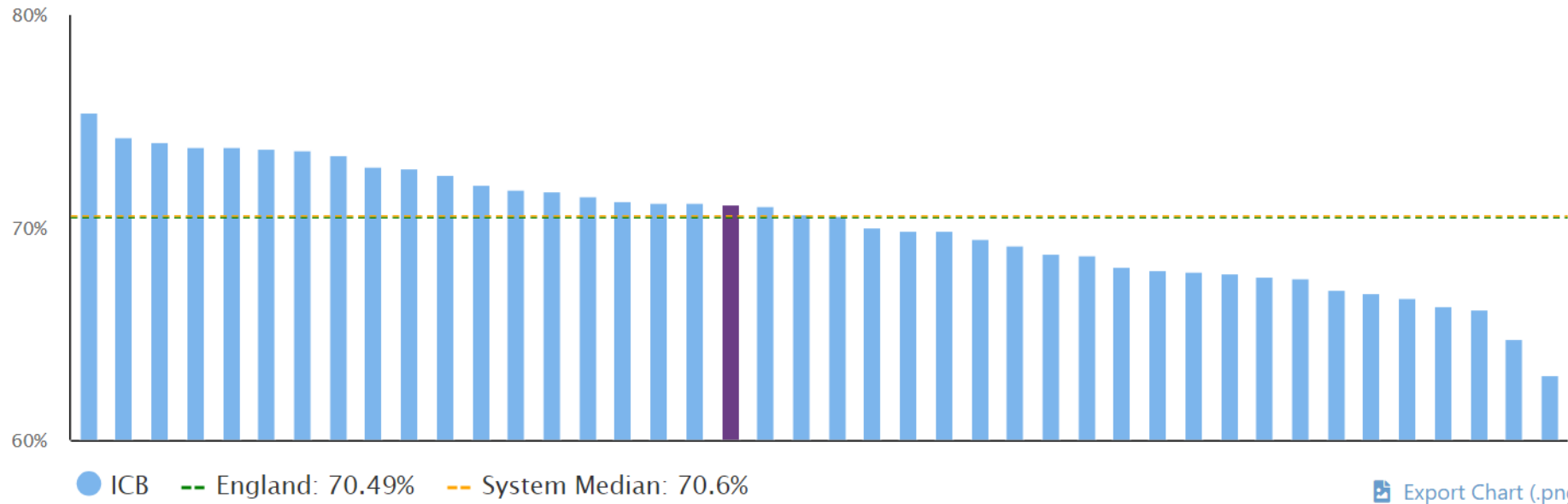
CVDP005CKD: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5), hypertension and proteinuria, currently treated with renin-angiotensin system antagonists

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾



Export Chart (.png)

CVDP005CKD: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5), hypertension and proteinuria, currently treated with renin-angiotensin system antagonists

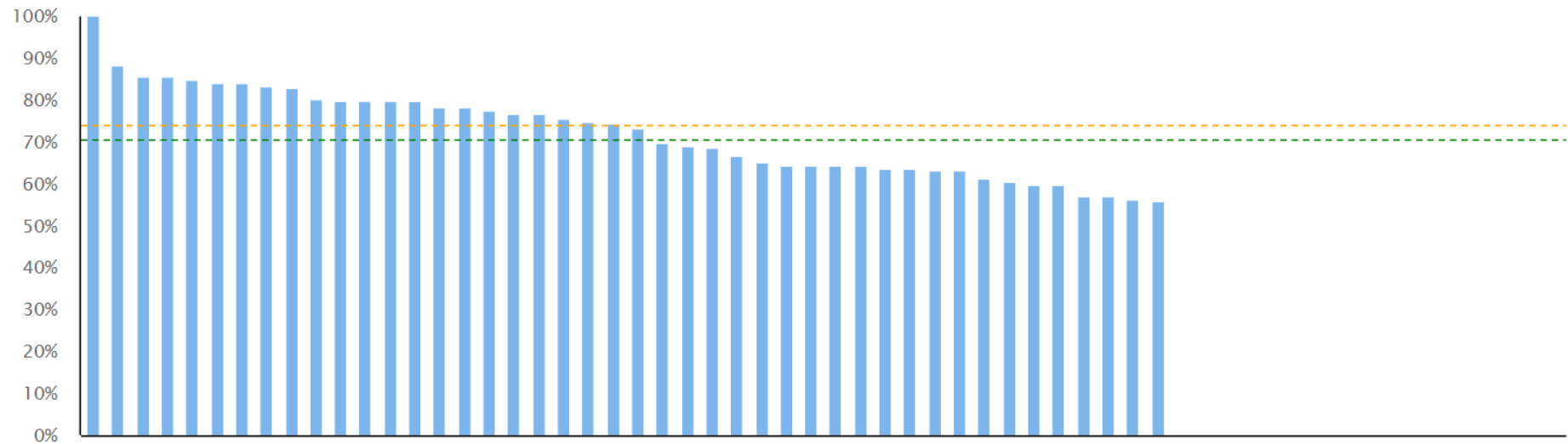
Area Breakdown: All Practices within NHS Somerset Integrated Care Board

June 2023

Chart Table

Filter ▾

Sub-ICB PCN Practice



● Practice -- England: 70.49% - - System Median: 73.95500000000001%

Export Chart (.png)

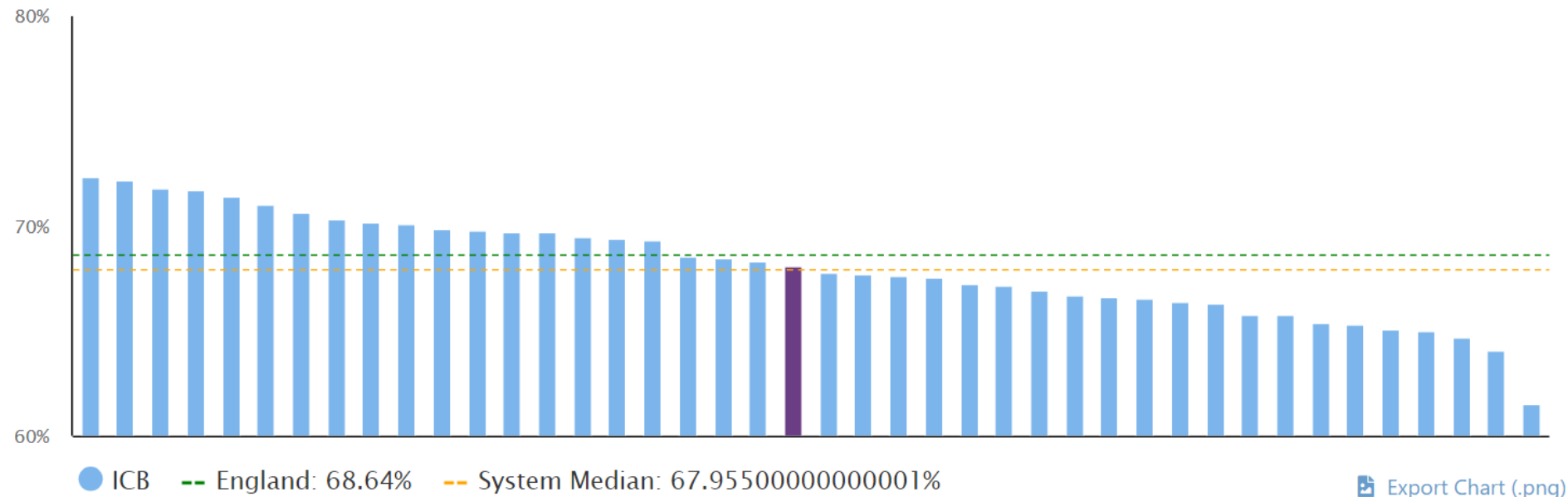
CVDP007CKD: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5) with an ACR of less than 70 mg/mmol, in whom the last blood pressure reading (measured in the preceding 12 months) is less than 140/90 mmHg.

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs

June 2023

Chart Table

Filter ▾

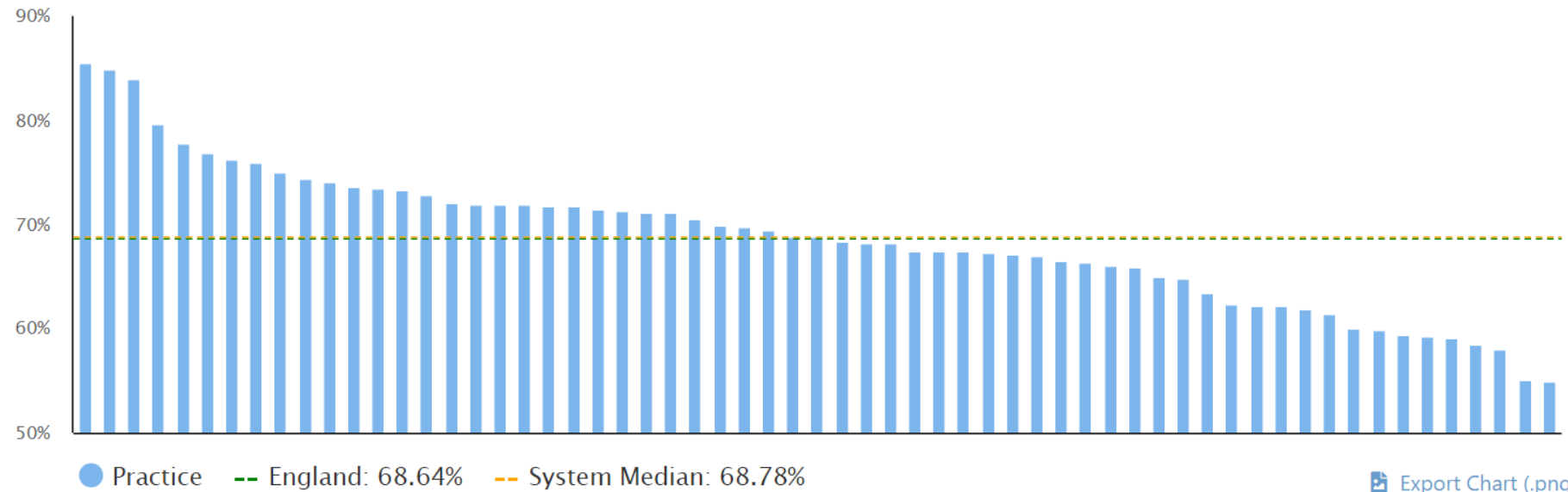


CVDP007CKD: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5) with an ACR of less than 70 mg/mmol, in whom the last blood pressure reading (measured in the preceding 12 months) is less than 140/90 mmHg.

Area Breakdown: All Practices within NHS Somerset Integrated Care Board
June 2023

Chart Table
Filter ▼

Sub-ICB PCN Practice

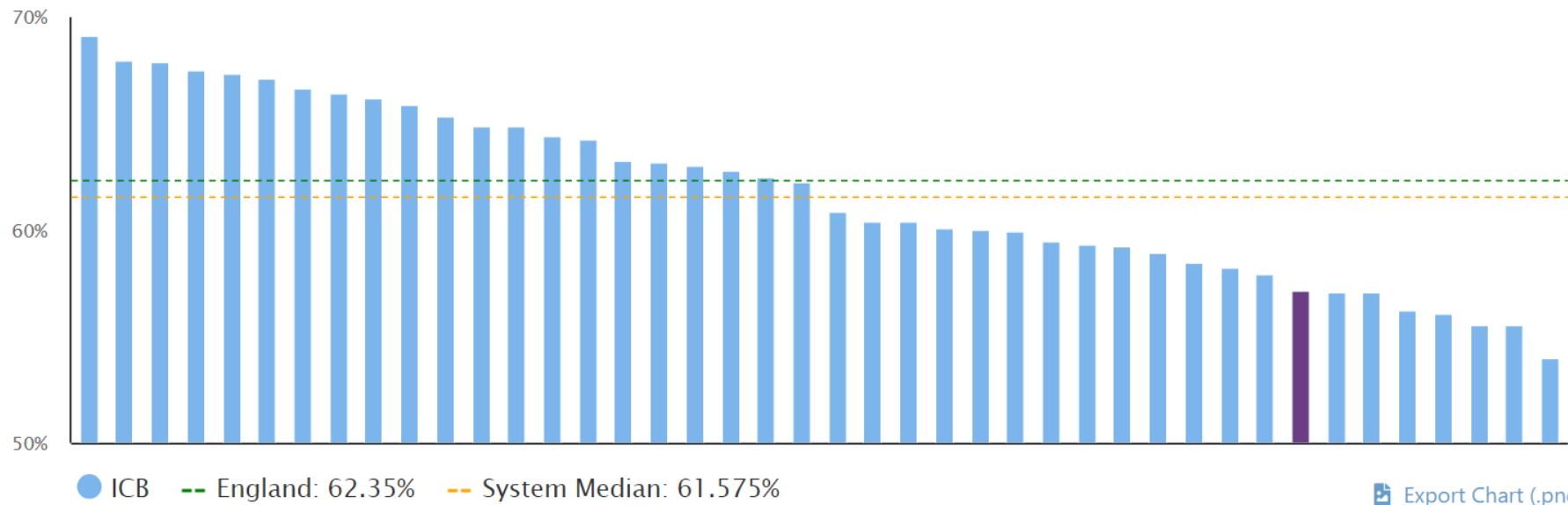


CHRONIC KIDNEY DISEASE MANAGEMENT

CVDP010CHOL: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5), who are currently treated with lipid lowering therapy.

System Level Comparison: NHS Somerset Integrated Care Board against other ICBs
June 2023

Chart Table
Filter ▾



Export Chart (.png)

CHRONIC KIDNEY DISEASE MANAGEMENT

CVDP010CHOL: Percentage of patients aged 18 and over with GP recorded CKD (G3a to G5), who are currently treated with lipid lowering therapy.

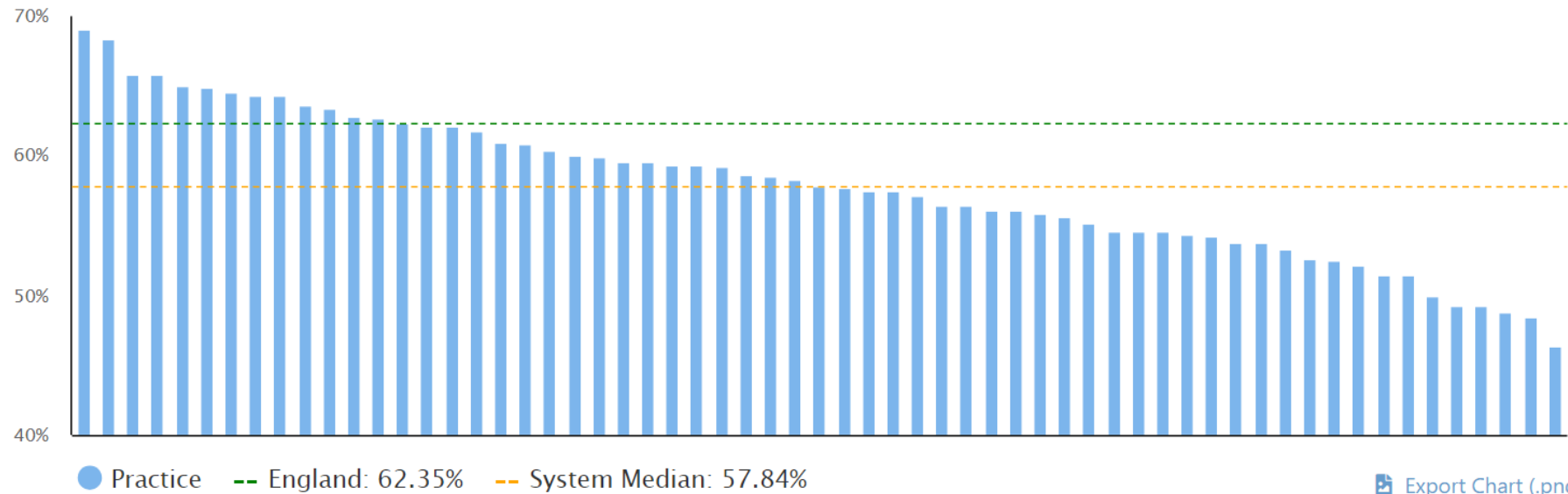
Area Breakdown: All Practices within NHS Somerset Integrated Care Board

June 2023

Chart Table

Filter ▾

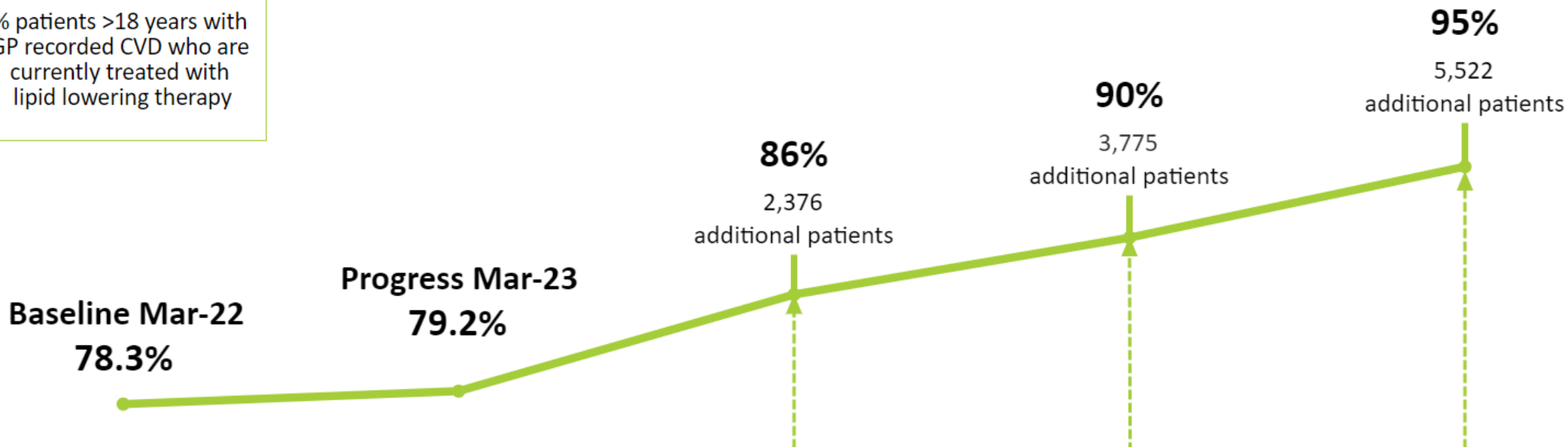
Sub-ICB PCN Practice



Export Chart (.png)

Next steps – address unmet lipid management to prevent CV events - June 23 (79.42%)

% patients >18 years with GP recorded CVD who are currently treated with lipid lowering therapy



Ambition 1

Ambition 2

Ambition 3

Potential cardiovascular events and deaths prevented in 3 years^{1,2,3}

143	CV events	226	CV events	331	CV events
17	deaths	27	deaths	40	deaths

One hundred **strokes** = **£1,391,000** cost to the NHS

One hundred **strokes** = **£951,100** cost to social care*

One hundred **heart attacks** = **£746,600** cost to the NHS

Next steps – optimise blood pressure control to reduce strokes and CV Events (June 23 67.59%)

