

Pan Mersey Area Prescribing Committee

SACUBITRIL/VALSARTAN film-coated tablets (Entresto®)

The Pan Mersey Area Prescribing Committee recommends the prescribing of SACUBITRIL/VALSARTAN film-coated tablets (Entresto® ▼) for treating symptomatic chronic heart failure following specialist initiation and in accordance with NICE TA388

AMBER following specialist initiation

<u>NICE TA388</u>¹ (April 2016) recommends sacubitril/valsartan as an option for treating symptomatic chronic heart failure with reduced ejection fraction, only in people:

- with New York Heart Association (NYHA) class II to IV symptoms AND
- with a left ventricular ejection fraction (LVEF) of 35% or less
 AND
- > who are already taking a stable dose of angiotensin-converting enzyme (ACE) inhibitors or angiotensin II receptor-blockers (ARBs).

Treatment with sacubitril/valsartan should be started by a heart failure specialist (as defined below in local implementation recommendations) with access to a multidisciplinary heart failure team.² Dose titration and monitoring should be performed by a heart failure specialist.

Patients being considered for sacubitril/valsartan treatment should be on optimal* first line heart failure therapy. *Optimal first line therapy is defined as beta blocker, mineralocorticoid receptor antagonist and ACE inhibitor or ARB, titrated to maximum tolerated dose.

Further information on when sacubitril/valsartan treatment may be considered, is available in the NICE Pathway: <u>Treating chronic heart failure with reduced ejection fraction</u>

Prescribing and monitoring of sacubitril/valsartan must be retained by the heart failure team or GPSi during dose titration and until the patient is stabilised on the optimum dose (minimum of 3 months).

See full <u>Implementation Notes</u> for further details of recommendations for safe local implementation.

Note: Patients who are not eligible for treatment under this statement may be considered on an individual basis where their GP or consultant believes exceptional circumstances exist that warrant deviation from the rule of this policy. In this situation, follow locally defined processes.

 APC board date: 29 June 2016 | Last updated: 25 Nov 2020
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Prescribing policy statement Version: 5.0 STATIC

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Effectiveness^{1,3}

Entresto[®] is a single molecule product containing sacubitril valsartan sodium salt complex, not a combination product. It exhibits the mechanism of action of an angiotensin receptor neprilysin inhibitor by simultaneously inhibiting neprilysin (via sacubitril) and by blocking the angiotensin II type-1 receptor (via valsartan).

The pivotal trial, <u>PARADIGM-HF</u>, compared sacubitril/ valsartan (n=4187) with enalapril (n=4212), both given in combination with standard care, including beta-blockers and aldosterone antagonists.

Sacubitril/valsartan was statistically significantly more effective at reducing hospital admissions and improving both overall mortality and cardiovascular (CV) mortality.

NICE concluded that sacubutril/valsartan would be considered cost-effective use of NHS resources, with a plausible ICER at the upper end of the acceptable range.

Cost

There is a flat pricing structure for sacubitril/valsartan. Annual cost to treat one patient (excl. VAT) = \pm 1,193.⁵ At the time of TA publication, NICE estimated the cost of implementing this guidance at £138,000 per 100,000 by 2020/21, when steady state was expected to be achieved.⁶

There may be a small offset due to potential reduction in hospital admissions.

More detailed local costings were produced by the North West Coast Strategic Clinical Network & Senate when the NICE TA was published and distributed to the relevant local CCGs.

Prescribing information^{1,4,7}

> STOP ACE INHIBITOR OR ARB 48 HOURS BEFORE COMMENCING SACUBITRIL/VALSARTAN TREATMENT

- > Initiation and titration of sacubitril/valsartan should be undertaken by a heart failure specialist.
- > The recommended starting dose is sacubitril 49mg/valsartan 51mg twice daily (reduced to sacubitril 24mg/valsartan 26mg twice daily in patients previously taking low doses of ACE inhibitor/ARB, moderate-to-severe renal impairment, moderate hepatic impairment, or systolic BP 100-110mmHg).
- > The dose should be doubled every 2 to 4 weeks to the recommended target dose of sacubitril 97mg/valsartan 103mg twice daily, as tolerated by the patient. If patients experience tolerability issues (systolic BP ≤95mmHg, symptomatic hypotension, hyperkalaemia, renal dysfunction), adjustment of concomitant medication, temporary down-titration or discontinuation of sacubitril/valsartan is recommended.
- > Tablets should be swallowed with a glass of water and can be taken with or without food.
- > Monitoring for sacubitril/valsartan is the same as for ACE inhibitors/ARBs (i.e. U&E and blood pressure after every dose change and once yearly when stable).
- > If treatment with sacubitril/valsartan is stopped, ACE inhibitor or ARB therapy must not be initiated until at least 48 hours after the last dose of sacubitril/valsartan.

Safety⁴

The most commonly reported adverse effects are: hypotension, hyperkalaemia and renal impairment. Angioedema was also reported. <u>Contraindications</u>

concomitant use with ACE inhibitors or ARBs

- concomitant use with aliskiren in patients with diabetes or eGFR <60ml/min/1.73m²
- severe hepatic impairment, biliary cirrhosis or cholestasis
- hereditary or idiopathic angioedema, or known history of angioedema related to previous ACE inhibitor/ARB therapy
- pregnancy

<u>Cautions</u>

Co-administration with statins, PDE-5 inhibitors, NSAIDs/COX-2 inhibitors, lithium, potassium-sparing or containing products (see <u>Drug Safety Update (Feb 16);</u> risk of fatal hyperkalaemia with spironolactone/ARBs). See <u>SPC</u> for full details contraindications, cautions and interactions.

Patient factors⁴

- Patients should be given a sacubitril/valsartan patient alert card when starting treatment.
- Treatment should not be initiated in patients with serum potassium level >5.4mmol/L or with systolic blood pressure (BP) <100mmHg.
- No dose adjustment required in mild renal or mild hepatic impairment.
- Not recommended in end-stage renal disease.

 Caution in patients with renal artery stenosis.
 See <u>SPC</u> for full details of recommended dose adjustments in moderate-to-severe renal impairment and moderate hepatic impairment.

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Local implementation recommendations^{1,4,7}

Within the Pan Mersey health economy, the term 'specialist' for the purposes of this prescribing statement is understood to be a consultant cardiologist, a cardiology GPSi or a prescribing member of the heart failure team with experience of treating chronic heart failure and who has access to the relevant multidisciplinary heart failure team.

- > The North West Coast Strategic Clinical Network has issued a position statement⁷ on the use of sacubitril/valsartan and a <u>treatment algorithm</u> that describes the local access routes to treatment.
- > The following patients should not be considered for sacubitril/valsartan treatment:⁷
 - ACE inhibitor/ARB naïve
- ARB intolerant (if ACE intolerant, try ARB first)
- Serum potassium >5.4mmol/L
- LVEF > 35%
- End stage renal disease

Systolic BP <100mmHg

- eGFR < 30mL/min
- Severe hepatic impairment

Patients being considered for sacubitril/valsartan treatment should be symptomatic, with a LVEF of 35% or less, and be on optimal* first line heart failure therapy. *Optimal first line therapy is defined as beta blocker, mineralocorticoid receptor antagonist and ACE inhibitor or ARB, titrated to maximum tolerated dose.

- > The heart failure specialist must initiate treatment. This includes issuing the first prescription for sacubitril/ valsartan and ensuring arrangements are in place for the patient to receive an alert card.
- > ACE inhibitor or ARB treatment **must** be stopped 48 hours before commencing sacubitril/valsartan treatment.
- > The heart failure specialist must provide adequate patient information and ensure that the patient understands when to stop their ACE inhibitor or ARB treatment and when to start taking sacubitril/valsartan. This information should be clearly communicated in a timely manner (e.g. within 1 week) to the patient's GP and preferably also to the community pharmacist.
- > A template <u>patient information leaflet</u> and <u>GP communication letter</u> have been produced by the North West Coast Strategic Clinical Network. Heart failure specialists initiating therapy must use these to ensure clear, consistent, and adequate communication.
- > The GP should ensure that the ACE inhibitor or ARB is discontinued from the patient's repeat prescription and clearly record that the patient is receiving sacubitril/valsartan, as a specialist prescribed medicine, in the patient's Summary Care Record.
- > Prescribing and monitoring of sacubitril/valsartan must be retained by the heart failure specialist during dose titration and until the patient is stabilised on the maximum tolerated dose (minimum 3 months).
- Once the patient is considered stable on optimum dose, the patient's GP will normally be requested to take on the ongoing prescribing of sacubitril/valsartan, following <u>clear written communication</u> from the heart failure specialist (including a list of all current heart failure medications and doses). The patient must receive an adequate further supply (at least 2 weeks) of sacubitril/valsartan from the heart failure specialist to allow the safe transfer of prescribing to primary care.
- > The ongoing dose of sacubitril/valsartan must be communicated clearly to the patient's GP. To avoid confusion, always use the standard dose format from the SPC and GP clinical systems:
 - Sacubitril 24mg/valsartan 26mg
 Sacubitril 97mg/valsartan 103mg
 - Sacubitril 49mg/valsartan 51mg
- > **Do not** prescribe the dose as 50mg, 100mg or 200mg.
- > **Do not** prescribe by brand name or use in communication between healthcare professionals. The routine use of generic sacubitril/valsartan is an additional safety prompt to prescribers that the patient is receiving a valsartan-containing treatment and therefore must not be prescribed concomitant ACE inhibitor or ARB.

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References

- 1. National Institute for Health and Care Excellence. NICE TA388: <u>Sacubitril valsartan for treating symptomatic</u> chronic heart failure with reduced ejection fraction; 27 April 2016. Accessed 18 Nov 2020.
- National Institute for Health and Care Excellence NICE NG106 <u>Chronic heart failure in adults: diagnosis and</u> <u>management</u> (12 September 2018). Accessed 20 Nov 2020.
- 3. McMurray JJV, Packer M, Desai AS, et al. Angiotensin-neprilysin inhibition versus enalapril in heart failure. N Engl J Med. 2014;371(11):993-1004.
- 4. Novartis Pharmaceuticals UK Ltd. Summary of Product Characteristics: <u>Entresto film-coated tablets</u>; 25 June 2020. Accessed 20 Nov 2020.
- 5. NHS Business Services Authority. <u>dm+d browser</u>. Accessed 18 Nov 2020.
- 6. National Institute for Health and Care Excellence. <u>Resource impact template: Sacubitril valsartan for treating</u> <u>symptomatic chronic heart failure with reduced ejection fraction (TA388)</u>; 27 April 2016. Accessed 18 Nov 2020.
- North West Coast Strategic Clinical Networks. <u>Statement on the use of Sacubitril/Valsartan (Entresto®) for the treatment of symptomatic chronic heart failure with reduced ejection fraction</u>; June 2016 (last updated November 2020).