WARNING: To be sold by retail on the prescription of a R.M.P. only

ARNOZA

1. **Generic Name**

   Sacubitril and Valsartan Tablets

2. **Qualitative & Quantitative Formula**

   ARNOZA 50

   Each film coated tablet contains:

   24 mg Sacubitril and 26 mg Valsartan

   Colors: Titanium Dioxide I.P., Red oxide of Iron and Black oxide of Iron

   The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry White

   ARNOZA 100

   Each film coated tablet contains:

   49 mg Sacubitril and 51 mg Valsartan

   Colors: Titanium Dioxide I.P., Red oxide of Iron and Yellow oxide of Iron

   The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Yellow

   ARNOZA 200

   Each film coated tablet contains:

   97 mg Sacubitril and 103 mg Valsartan

   Colors: Titanium Dioxide I.P., Red oxide of Iron and Black oxide of Iron

   The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Pink

3. **Dosage form and strength**

   ARNOZA 50 film-coated tablets (Sacubitril 24 mg and Valsartan 26 mg)

   ARNOZA 100 film-coated tablets (Sacubitril 49 mg and Valsartan 51 mg)

   ARNOZA 200 film-coated tablets (Sacubitril 97 mg and Valsartan 103 mg)

4. Clinical particulars

4.1 Therapeutic Indication

To reduce the risk of cardiovascular death and hospitalization for heart failure in patients with chronic heart failure (NYHA Class II-IV) and reduced ejection fraction.

4.2 Posology and Method of Administration

Posology

The recommended starting dose of Sacubitril and Valsartan is one tablet of 49 mg/51 mg twice daily, except in the situations described below. The dose should be doubled at 2-4 weeks to the target dose of one tablet of 97 mg/103 mg twice daily, as tolerated by the patient.

If patients experience tolerability issues (systolic blood pressure [SBP] ≤95 mmHg, symptomatic hypotension, hyperkalaemia, renal dysfunction), adjustment of concomitant medicinal products, temporary down–titration or discontinuation of Sacubitril and Valsartan is recommended.

In a reported study "PARADIGM-HF", Sacubitril and Valsartan was administered in conjunction with other heart failure therapies, in place of an ACE inhibitor or other angiotensin II receptor blocker (ARB). There is limited reported experience in patients not currently taking an ACE inhibitor or an ARB or taking low doses of these medicinal products, therefore a starting dose of 24 mg/26 mg twice daily and slow dose titration (doubling every 3-4 weeks) are recommended in these patients.

Treatment should not be initiated in patients with serum potassium level >5.4 mmol/l or with SBP <100 mmHg A starting dose of 24 mg/26 mg twice daily should be considered for patients with SBP ≥100 to 110 mmHg.

Sacubitril and Valsartan should not be co-administered with an ACE inhibitor or an ARB. Due to the potential risk of angioedema when used concomitantly with an ACE inhibitor, it must not be started for at least 36 hours after discontinuing ACE inhibitor therapy

The valsartan contained within Sacubitril and Valsartan is more bioavailable than the valsartan in other marketed tablet formulations.

If a dose is missed, the patient should take the next dose at the scheduled time. Splitting or crushing of the tablets is not recommended.

Special populations

Elderly population

The dose should be in line with the renal function of the elderly patient.

Renal impairment

No dose adjustment is required in patients with mild (Estimated Glomerular Filtration Rate [eGFR] 60-90 ml/min/1.73 m^2) renal impairment. A starting dose of 24 mg/26 mg twice daily should be considered in patients with moderate renal impairment (eGFR 30-60 ml/min/1.73 m^2). As there is very limited reported clinical experience in patients with severe renal impairment (eGFR <30 ml/min/1.73 m^2) Sacubitril and Valsartan should be used with caution and a starting dose of 24 mg/26 mg twice daily is recommended. There is no reported experience in patients with end-stage renal disease and use of Sacubitril and Valsartan is not recommended.

Hepatic impairment

No dose adjustment is required when administering Sacubitril and Valsartan to patients with mild hepatic impairment (Child-Pugh A classification). There is limited clinical experience in patients with moderate hepatic impairment (Child-Pugh B classification) or with AST/ALT values more than twice the upper limit of the normal range. Sacubitril and Valsartan should be used with caution in these patients and the recommended starting dose is 24 mg/26 mg twice daily. Sacubitril and Valsartan is contraindicated in patients with severe hepatic impairment, biliary cirrhosis or cholestasis (Child-Pugh C classification).

Paediatric population

The safety and efficacy of Sacubitril and Valsartan in children and adolescents aged below 18 years have not been established. No data are available.

Method of administration

Oral use.

Sacubitril and Valsartan may be administered with or without food. The tablets must be swallowed with a glass of water.

4.3 Contraindications

- Hypersensitivity to the active substances or to any of the excipients.
- Concomitant use with ACE inhibitors. Sacubitril and Valsartan must not be administered until 36 hours after discontinuing ACE inhibitor therapy.
- Known history of angioedema related to previous ACE inhibitor or ARB therapy.
- Hereditary or idiopathic angioedema
- Concomitant use with aliskiren-containing medicinal products in patients with diabetes mellitus or in patients with renal impairment (eGFR <60 ml/min/1.73 m^2).
- Severe hepatic impairment, biliary cirrhosis and cholestasis.
- Second and third trimester of pregnancy.

4.4 Special warnings and precautions for use

WARNING: FETAL TOXICITY
When pregnancy is detected, discontinue the product as soon as possible. Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing fetus.

Dual blockade of the renin-angiotensin-aldosterone system (RAAS)

- The combination of Sacubitril and Valsartan with an ACE inhibitor is contraindicated due to the increased risk of angioedema. Sacubitril and Valsartan must not be initiated until 36 hours after taking the last dose of ACE inhibitor therapy. If treatment with Sacubitril and Valsartan is stopped, ACE inhibitor therapy must not be initiated until 36 hours after the last dose of Sacubitril and Valsartan.
- The combination of Sacubitril and Valsartan with direct renin inhibitors such as aliskiren is not recommended The combination of Sacubitril and Valsartan with aliskiren-containing products is contraindicated in patients with diabetes mellitus or in patients with renal impairment (eGFR <60 ml/min/1.73 m^2).

- Sacubitril and Valsartan contains valsartan, and therefore should not be co-administered with another ARB containing product.

Hypotension

Treatment should not be initiated unless SBP is ≥100 mmHg. As per reported data, Patients with SBP <100 mmHg were not studied. Cases of symptomatic hypotension have been reported in patients treated with Sacubitril and Valsartan during reported clinical studies especially in patients ≥65 years old, patients with renal disease and patients with low SBP (<112 mmHg). When initiating therapy or during dose titration with Sacubitril and Valsartan, blood pressure should be monitored routinely. If hypotension occurs, temporary down-titration or discontinuation of Sacubitril and Valsartan is recommended Dose adjustment of diuretics, concomitant antihypertensive and treatment of other causes of hypotension (e.g. hypovolaemia) should be considered. Symptomatic hypotension is more likely to occur if the patient has been volume-depleted, e.g. by diuretic therapy, dietary salt restriction, diarrhoea or vomiting. Sodium and/or volume depletion should be corrected before starting treatment with Sacubitril and Valsartan; however, such corrective action must be carefully weighed against the risk of volume overload.

Impaired renal function

Evaluation of patients with heart failure should always include assessment of renal function. Patients with mild and moderate renal impairment are more at risk of developing hypotension There is very limited clinical experience in patients with severe renal impairment (estimated GFR <30 ml/min/1.73m^2) and these patients may be at greatest risk of hypotension There is no experience in patients with end-stage renal disease and use of Sacubitril and Valsartan is not recommended.

Worsening renal function

Use of Sacubitril and Valsartan may be associated with decreased renal function. The risk may be further increased by dehydration or concomitant use of non-steroidal anti-inflammatory agents (NSAIDs) Down-titration should be considered in patients who develop a clinically significant decrease in renal function.

Hyperkalaemia

Treatment should not be initiated if the serum potassium level is >5.4 mmol/l. Use of Sacubitril and Valsartan may be associated with an increased risk of hyperkalaemia, although hypokalaemia may also occur Monitoring of serum potassium is recommended, especially in patients who have risk factors such as renal impairment, diabetes mellitus or hypoaldosteronism or who are on a high potassium diet or on mineralocorticoid antagonists If patients experience clinically significant hyperkalaemia adjustment of concomitant medicinal products, or temporary down–titration or discontinuation is recommended. If serum potassium level is >5.4 mmol/l discontinuation should be considered.

Angioedema

Angioedema has been reported in patients treated with Sacubitril and Valsartan. If angioedema occurs, Sacubitril and Valsartan should be immediately discontinued and appropriate therapy and monitoring should be provided until complete and sustained resolution of signs and symptoms has occurred. It must not be re-administered. In cases of confirmed angioedema where swelling has been confined to the face and lips, the condition has generally resolved without treatment, although antihistamines have been useful in relieving symptoms.

Angioedema associated with laryngeal oedema may be fatal. Where there is involvement of the tongue, glottis or larynx likely to cause airway obstruction, appropriate therapy, e.g. adrenaline solution 1 mg/1 ml (0.3-0.5 ml), and/or measures necessary to ensure a patent airway, should be promptly administered.

Patients with a prior history of angioedema were not studied. As they may be at higher risk for angioedema, caution is recommended if Sacubitril and Valsartan is used in these patients. Sacubitril and Valsartan is contraindicated in patients with a known history of angioedema related to previous ACE inhibitor or ARB therapy or with hereditary or idiopathic angioedema

Black patients have an increased susceptibility to develop angioedema.

Patients with renal artery stenosis

Sacubitril and Valsartan may increase blood urea and serum creatinine levels in patients with bilateral or unilateral renal artery stenosis. Caution is required in patients with renal artery stenosis and monitoring of renal function is recommended.

Patients with NYHA functional classification IV

Caution should be exercised when initiating Sacubitril and Valsartan in patients with NYHA functional classification IV due to limited clinical experience in this population.

B-type natriuretic peptide (BNP)

BNP is not a suitable biomarker of heart failure in patients treated with Sacubitril and Valsartan because it is a neprilysin substrate.

Patients with hepatic impairment

There is limited clinical experience in patients with moderate hepatic impairment (Child-Pugh B classification) or with AST/ALT values more than twice the upper limit of the normal range. In these patients, exposure may be increased and safety is not established. Caution is therefore recommended when using it in these patients. Sacubitril and Valsartan is contraindicated in patients with severe hepatic impairment, biliary cirrhosis or cholestasis (Child-Pugh C classification).

Psychiatric disorders

Psychiatric events such as hallucinations, paranoia and sleep disorders, in context of psychotic events, have been associated with sacubitril/valsartan use. If a patient experiences such events, discontinuation of sacubitril/valsartan treatment should be considered.

4.5 Interaction with other medicinal products and other forms of interaction

Interactions resulting in a contraindication

ACE inhibitors

The concomitant use of Sacubitril and Valsartan with ACE inhibitors is contraindicated, as the concomitant inhibition of neprilysin (NEP) and ACE may increase the risk of angioedema. Sacubitril and Valsartan must not be started until 36 hours after taking the last dose of ACE inhibitor therapy. ACE inhibitor therapy must not be started until 36 hours after the last dose of Sacubitril and Valsartan.

Aliskiren

The concomitant use of Sacubitril and Valsartan with aliskiren-containing products is contraindicated in patients with diabetes mellitus or in patients with renal impairment (eGFR <60 ml/min/1.73 m^2) The combination of Sacubitril and Valsartan with direct renin inhibitors

such as aliskiren is not recommended Combination of Sacubitril and Valsartan with aliskiren is potentially associated with a higher frequency of adverse events such as hypotension, hyperkalaemia and decreased renal function (including acute renal failure).

Interactions resulting in concomitant use not being recommended

Sacubitril and Valsartan contains valsartan, and therefore should not be co-administered with another ARB containing product.

Interactions requiring precautions

OATP1B1 and OATP1B3 substrates, e.g. statins

Reported *In vitro* data indicate that sacubitril inhibits OATP1B1 and OATP1B3 transporters. Sacubitril and Valsartan may therefore increase the systemic exposure of OATP1B1 and OATP1B3 substrates such as statins. Co-administration of Sacubitril and Valsartan increased the C_{max} of atorvastatin and its metabolites by up to 2-fold and AUC by up to 1.3-fold. Caution should be exercised when co-administering Sacubitril and Valsartan with statins. No clinically relevant drug-drug interaction was observed when simvastatin and Sacubitril and Valsartan were co-administered.

PDE5 inhibitors including sildenafil

Addition of a single dose of sildenafil to Sacubitril and Valsartan at steady state in patients with hypertension was associated with a significantly greater blood pressure reduction compared to administration of Sacubitril and Valsartan alone. Therefore, caution should be exercised when sildenafil or another PDE5 inhibitor is initiated in patients treated with Sacubitril and Valsartan.

Potassium

Concomitant use of potassium-sparing diuretics (triamterene, amiloride), mineralocorticoid antagonists (e.g. spironolactone, eplerenone), potassium supplements, and salt substitutes containing potassium or other agents (such as heparin) may lead to increases in serum potassium, and to increases in serum creatinine. Monitoring of serum potassium is recommended if Sacubitril and Valsartan is co-administered with these agents.

Non-steroidal anti-inflammatory agents (NSAIDs), including selective cyclooxygenase-2 (COX-2) inhibitors

In elderly patients, volume-depleted patients (including those on diuretic therapy), or patients with compromised renal function, concomitant use of Sacubitril and Valsartan and NSAIDs may lead to an increased risk of worsening of renal function. Therefore, monitoring of renal function is recommended when initiating or modifying treatment in patients on Sacubitril and Valsartan who are taking NSAIDs concomitantly.

Lithium

Reversible increases in serum lithium concentrations and toxicity have been reported during concomitant administration of lithium with ACE inhibitors or angiotensin II receptor antagonists. In reported studies, interactions between Sacubitril and Valsartan and lithium have not been investigated. Therefore, this combination is not recommended. If the combination proves necessary, careful monitoring of serum lithium levels is recommended. If a diuretic is also used, the risk of lithium toxicity may be increased further.

Furosemide

Co-administration of Sacubitril and Valsartan and furosemide had no effect on the pharmacokinetics of Sacubitril and Valsartan but reduced C_{max} and AUC of furosemide by 50%

and 28%, respectively. While there was no relevant change in urine volume, the urinary excretion of sodium was reduced within 4 hours and 24 hours after co-administration. The average daily dose of furosemide was unchanged from baseline until the end of the reported PARADIGM-HF study in patients treated with Sacubitril and Valsartan.

Nitrates, e.g. nitroglycerine

There was no drug-drug interaction between Sacubitril and Valsartan and intravenously administered nitroglycerin with regard to blood pressure reduction. Co-administration of nitroglycerin and Sacubitril and Valsartan was associated with a treatment difference of 5 bpm in heart rate compared to the administration of nitroglycerine alone. A similar effect on the heart rate may occur when Sacubitril and Valsartan is co-administered with sublingual, oral or transdermal nitrates. In general, no dose adjustment is required.

OATP and MRP2 transporters

The active metabolite of sacubitril (LBQ657) and valsartan are OATP1B1, OATP1B3, OAT1 and OAT3 substrates; valsartan is also a MRP2 substrate. Therefore, co-administration of Sacubitril and Valsartan with inhibitors of OATP1B1, OATP1B3, OAT3 (e.g. rifampicin, ciclosporin), OAT1 (e.g. tenofovir, cidofovir) or MRP2 (e.g. ritonavir) may increase the systemic exposure of LBQ657 or valsartan. Appropriate care should be exercised when initiating or ending concomitant treatment with such medicinal products.

Metformin

Co-administration of Sacubitril and Valsartan with metformin reduced both C_{max} and AUC of metformin by 23%. The clinical relevance of these findings is unknown. Therefore, when initiating therapy with Sacubitril and Valsartan in patients receiving metformin, the clinical status of the patient should be evaluated.

No significant interaction

No clinically meaningful drug-drug interaction was observed when Sacubitril and Valsartan was co-administered with digoxin, warfarin, hydrochlorothiazide, amlodipine, omeprazole, carvedilol or a combination of levonorgestrel/ethinyl estradiol in reported studies.

4.6 Fertility, pregnancy and lactation

Pregnancy

The use of Sacubitril and Valsartan is not recommended during the first trimester of pregnancy and is contraindicated during the second and third trimesters of pregnancy.

Valsartan

Epidemiological evidence regarding the risk of teratogenicity following exposure to ACE inhibitors during the first trimester of pregnancy has not been conclusive; however, a small increase in risk cannot be excluded. Whilst there is no reported controlled epidemiological data on the risk with ARBs, similar risks may exist for this class of medicinal product. Unless continued ARB therapy is considered essential, patients planning pregnancy should be changed to alternative antihypertensive treatments, which have an established safety profile for use in pregnancy. When pregnancy is diagnosed, treatment with ARBs should be stopped immediately and, if appropriate, alternative therapy should be started. Exposure to ARBs therapy during the second and third trimesters is known to induce human foetotoxicity (decreased renal function, oligohydramnios, skull ossification retardation) and neonatal toxicity (renal failure, hypotension, and hyperkalaemia).

Should exposure to ARBs have occurred from the second trimester of pregnancy, ultrasound check of renal function and skull is recommended. Infants whose mothers have taken ARBs should be closely observed for hypotension.

Sacubitril

There are no reported data from the use of sacubitril in pregnant women. Reported studies in animals have shown reproductive toxicity.

Sacubitril and Valsartan

There are no reported data from the use of Sacubitril and Valsartan in pregnant women. Reported animal studies with Sacubitril and Valsartan have shown reproductive toxicity.

Breast-feeding

It is not known whether Sacubitril and Valsartan is excreted in human milk. The components of Sacubitril and Valsartan, sacubitril and valsartan, were excreted in the milk of lactating rats, as per reported data. Because of the potential risk for adverse reactions in breast-fed new-borns/infants, it is not recommended during breast-feeding. A decision should be made whether to abstain from breast-feeding or to discontinue Sacubitril and Valsartan while breast-feeding, taking into account the importance of Sacubitril and Valsartan to the mother.

Fertility

There are no reported data available on the effect of Sacubitril and Valsartan on human fertility. No impairment of fertility was demonstrated in reported studies with it in male and female rats.

4.7 Effects on ability to drive and use machines

Sacubitril and Valsartan has a minor influence on the ability to drive and use machines. When driving vehicles or operating machines it should be taken into account that occasionally dizziness or fatigue may occur.

4.8 Undesirable effects

Summary of the safety profile

The most commonly reported adverse reactions during treatment with sacubitril/valsartan were hypotension (17.6%), hyperkalaemia (11.6%) and renal impairment (10.1%). Angioedema was reported in patients treated with sacubitril/valsartan (0.5%) (See description of selected adverse reactions).

The safety of Sacubitril and Valsartan in patients with chronic heart failure was evaluated in the reported pivotal phase 3 study PARADIGM-HF, which compared patients treated twice daily with Sacubitril and Valsartan 97 mg/103 mg (n=4,203) or enalapril 10 mg (n=4,229). Patients randomised to the Sacubitril and Valsartan group received treatment for a median duration of exposure of 24 months; 3,271 patients were treated for more than one year.

In the PARADIGM-HF study, subjects were previously treated with ACE inhibitors and/or ARBs and also had to successfully complete sequential enalapril and Sacubitril and Valsartan run-in periods (median drug exposure of 15 and 29 days, respectively) prior to the randomised double-blind period. During the enalapril run-in period, 1,102 patients (10.5%) permanently discontinued from the study, 5.6% because of an adverse reaction, most commonly renal dysfunction (1.7%), hyperkalemia (1.7%) and hypotension (1.4%). During the Sacubitril and Valsartan run-in period, 10.4% of patients permanently discontinued, 5.9% because of an adverse reaction, most commonly renal dysfunction (1.8%), hypotension (1.7%) and hyperkalemia (1.3%). Due to discontinuations during the run-in period, the adverse reaction

rates as presented in table below may be lower than the adverse reaction rates expected in clinical practice.

Discontinuation of therapy due to an adverse reaction in the double-blind period of the PARADIGM-HF study occurred in 450 Sacubitril and Valsartan -treated patients (10.7%) and 516 enalapril-treated patients (12.2%).

Tabulated list of adverse reactions

Adverse reactions are ranked by System organ class and then by frequency with the most frequent first, using the following convention: very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1,000 to <1/100); rare (≥1/10,000 to <1/1,000); very rare (<1/10,000). Within each frequency grouping, adverse reactions are ranked in order of decreasing seriousness.

Table 1 List of adverse reactions

System Organ Class	**Preferred term**	**Frequency category**
Blood and lymphatic system disorders	Anaemia	Common
Immune system disorders	Hypersensitivity	Uncommon
Metabolism and nutrition disorders	Hyperkalaemia*	Very common
	Hypokalaemia	Common
	Hypoglycaemia	Common
Nervous system disorders	Dizziness	Common
	Headache	Common
	Syncope	Common
	Dizziness postural	Uncommon
Ear and labyrinth disorders	Vertigo	Common
Vascular disorders	Hypotension*	Very common
	Orthostatic hypotension	Common
Respiratory, thoracic and mediastinal disorders	Cough	Common
Gastrointestinal disorders	Diarrhoea	Common

	Nausea	Common
	Gastritis	Common
Skin and subcutaneous tissue disorders	Pruritus	Uncommon
	Rash	Uncommon
	Angioedema*	Uncommon
Renal and urinary disorders	Renal impairment*	Very common
	Renal failure (renal failure, acute renal failure)	Common
General disorders and administration site conditions	Fatigue	Common
	Asthenia	Common
Psychiatric disorders	Hallucinations**	Rare
	Sleep disorders	Rare
	Paranoia	Very rare

*See description of selected adverse reactions.

Description of selected adverse reactions

Angioedema

Angioedema has been reported in patients treated with Sacubitril and Valsartan. In PARADIGM-HF, angioedema was reported in 0.5% of patients treated with Sacubitril and Valsartan, compared with 0.2% of patients treated with enalapril. A higher incidence of angioedema was observed in Black patients treated with Sacubitril and Valsartan (2.4%) and enalapril (0.5%).

Hyperkalaemia and serum potassium

In PARADIGM-HF, hyperkalaemia and serum potassium concentrations >5.4 mmol/l were reported in 11.6% and 19.7% of Sacubitril and Valsartan -treated patients and 14.0% and 21.1% of enalapril-treated patients, respectively.

Blood pressure

In PARADIGM-HF, hypotension and clinically relevant low systolic blood pressure (<90 mmHg and decrease from baseline of >20 mmHg) were reported in 17.6% and 4.76% of Sacubitril and Valsartan -treated patients compared with 11.9% and 2.67% of enalapril-treated patients, respectively.

Renal impairment

In PARADIGM-HF, renal impairment was reported in 10.1% of Sacubitril and Valsartan - treated patients and 11.5% of enalapril-treated patients.

Reporting of suspected adverse reactions

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via any point of contact of Torrent Pharma available at: https://www.torrentpharma.com/index.php/site/info/adverse_event_reporting

4.9 Overdose

Limited data are available with regard to overdose in humans. As per reported data, single dose of Sacubitril and Valsartan 583 mg sacubitril/617 mg valsartan and multiple doses of 437 mg sacubitril/463 mg valsartan (14 days) were studied in healthy volunteers and were well tolerated.

Hypotension is the most likely symptom of overdose due to the blood pressure lowering effects of Sacubitril and Valsartan. Symptomatic treatment should be provided.

The medicinal product is unlikely to be removed by haemodialysis due to high protein binding.

5. Pharmacological properties

5.1 Mechanism of Action

Sacubitril and Valsartan exhibits the mechanism of action of an angiotensin receptor neprilysin inhibitor by simultaneously inhibiting neprilysin (neutral endopeptidase; NEP) via LBQ657, the active metabolite of the prodrug sacubitril, and by blocking the angiotensin II type-1 (AT1) receptor via valsartan. The complementary cardiovascular benefits of Sacubitril and Valsartan in heart failure patients are attributed to the enhancement of peptides that are degraded by neprilysin, such as natriuretic peptides (NP), by LBQ657 and the simultaneous inhibition of the effects of angiotensin II by valsartan. NPs exert their effects by activating membrane-bound guanylyl cyclase-coupled receptors, resulting in increased concentrations of the second messenger cyclic guanosine monophosphate (cGMP), which could result in vasodilation, natriuresis and diuresis, increased glomerular filtration rate and renal blood flow, inhibition of renin and aldosterone release, reduction of sympathetic activity, and anti-hypertrophic and anti-fibrotic effects.

Valsartan inhibits detrimental cardiovascular and renal effects of angiotensin II by selectively blocking the AT1 receptor, and also inhibits angiotensin II-dependent aldosterone release. This prevents sustained activation of the renin-angiotensin-aldosterone system that would result in vasoconstriction, renal sodium and fluid retention, activation of cellular growth and proliferation, and subsequent maladaptive cardiovascular remodelling.

5.2 Pharmacodynamic properties

Pharmacotherapeutic group: Agents acting on the renin-angiotensin system; angiotensin II antagonists, other combinations

In reported studies, the pharmacodynamic effects of Sacubitril and Valsartan were evaluated after single and multiple dose administrations in healthy subjects and in patients with heart failure, and are consistent with simultaneous neprilysin inhibition and RAAS blockade. In a 7-day valsartan-controlled study in patients with reduced ejection fraction (HFrEF), administration of Sacubitril and Valsartan resulted in an initial increase in natriuresis, increased urine cGMP, and decreased plasma levels of mid-regional pro-atrial natriuretic peptide (MR-

proANP) and N-terminal prohormone brain natriuretic peptide (NT-proBNP) compared to valsartan. In a 21-day study in HFrEF patients, Sacubitril and Valsartan significantly increased urine ANP and cGMP and plasma cGMP, and decreased plasma NT-proBNP, aldosterone and endothelin-1 compared to baseline. The AT1-receptor was also blocked as evidenced by increased plasma renin activity and plasma renin concentrations. In the PARADIGM-HF study, Sacubitril and Valsartan decreased plasma NT-proBNP and increased plasma BNP and urine cGMP compared with enalapril. BNP is not a suitable biomarker of heart failure in patients treated with Sacubitril and Valsartan because BNP is a neprilysin substrate NT-proBNP is not a neprilysin substrate and is therefore a more suitable biomarker.

In a reported thorough QTc clinical study in healthy male subjects, single doses of Sacubitril and Valsartan 194 mg sacubitril/206 mg valsartan and 583 mg sacubitril/617 mg valsartan had no effect on cardiac repolarisation.

Neprilysin is one of multiple enzymes involved in the clearance of amyloid-β (Aβ) from the brain and cerebrospinal fluid (CSF). Administration of Sacubitril and Valsartan 194 mg sacubitril/206 mg valsartan once daily for two weeks to healthy subjects was associated with an increase in CSF Aβ1-38 compared to placebo; there were no changes in concentrations of CSF Aβ1-40 and 1-42. The clinical relevance of this finding is not known.

Clinical efficacy and safety

The 24 mg/26 mg, 49 mg/51 mg and 97 mg/103 mg strengths are in some publications referred to as 50, 100 or 200 mg.

PARADIGM-HF

PARADIGM-HF was a reported multinational, randomised, double-blind study of 8,442 patients comparing Sacubitril and Valsartan to enalapril, both given to adult patients with chronic heart failure, NYHA class II-IV and reduced ejection fraction (left ventricular ejection fraction [LVEF] ≤40%, amended later to ≤35%) in addition to other heart failure therapy. The primary endpoint was the composite of cardiovascular (CV) death or hospitalisation for heart failure (HF). Patients with SBP <100 mmHg, severe renal impairment (eGFR <30 ml/min/1.73 m^2) and severe hepatic impairment were excluded at screening and therefore not prospectively studied.

Prior to study participation, patients were well treated with standard of care therapy which included ACE inhibitors/ARBs (>99%), beta blockers (94%), mineralocorticoid antagonists (58%) and diuretics (82%). The median follow-up duration was 27 months and patients were treated for up to 4.3 years.

Patients were required to discontinue their existing ACE inhibitor or ARB therapy and enter a sequential single-blind run-in period during which they received treatment with enalapril 10 mg twice daily, followed by single-blind treatment with Sacubitril and Valsartan 100 mg twice daily, increasing to 200 mg twice daily They were then randomised to the double-blind period of the study, during which they received either Sacubitril and Valsartan 200 mg or enalapril 10 mg twice daily [Sacubitril and Valsartan (n=4,209); enalapril (n=4,233)].

The mean age of the population studied was 64 years of age and 19% were 75 years of age or older. At randomisation, 70% of patients were NYHA class II, 24% were class III and 0.7% were class IV. The mean LVEF was 29% and there were 963 (11.4%) patients with a baseline LVEF >35% and ≤40%.

In the Sacubitril and Valsartan group, 76% of patients remained on the target dose of 200 mg twice daily at the end of the study (mean daily dose of 375 mg). In the enalapril group, 75% of

patients remained on the target dose of 10 mg twice daily at the end of the study (mean daily dose of 18.9 mg).

Sacubitril and Valsartan was superior to enalapril, reducing the risk of cardiovascular death or heart failure hospitalisations to 21.8% compared to 26.5% for enalapril treated patients. The absolute risk reductions were 4.7% for the composite of the CV death or HF hospitalisation, 3.1% for CV death alone, and 2.8% for first HF hospitalisation alone. The relative risk reduction was 20% versus enalapril (see Table 2). This effect was observed early and was sustained throughout the duration of the study (see Figure 1). Both components contributed to the risk reduction. Sudden death accounted for 45% of cardiovascular deaths and was reduced by 20% in Sacubitril and Valsartan -treated patients compared to enalapril-treated patients (HR 0.80, p=0.0082). Pump failure accounted for 26% of cardiovascular deaths and was reduced by 21% in Sacubitril and Valsartan -treated patients compared to enalapril-treated patients (HR 0.79, p=0.0338).

This risk reduction was consistently observed across subgroups including: gender, age, race, geography, NYHA class (II/III), ejection fraction, renal function, history of diabetes or hypertension, prior heart failure therapy, and atrial fibrillation.

Sacubitril and Valsartan improved survival with a significant reduction in all-cause mortality of 2.8% (Sacubitril and Valsartan, 17%, enalapril, 19.8%). The relative risk reduction was 16% compared with enalapril (see Table 2).

Table 2 Treatment effect for the primary composite endpoint, its components and all-cause mortality over a median follow-up of 27 months

	Sacubitril and Valsartan N=4187[♯] n (%)	**Enalapril N=4212[♯] n (%)**	**Hazard ratio (95% CI)**	**Relative risk reduction**	**p-value *****
Primary composite endpoint of CV death and heart failure hospitalisations*	914 (21.83)	1117 (26.52)	0.80 (0.73, 0.87)	20%	0.0000002
Individual components of the primary composite endpoint					
CV death**	558 (13.33)	693 (16.45)	0.80 (0.71, 0.89)	20%	0.00004
First heart failure hospitalisation	537 (12.83)	658 (15.62)	0.79 (0.71, 0.89)	21%	0.00004
Secondary endpoint					
All-cause mortality	711 (16.98)	835 (19.82)	0.84 (0.76, 0.93)	16%	0.0005

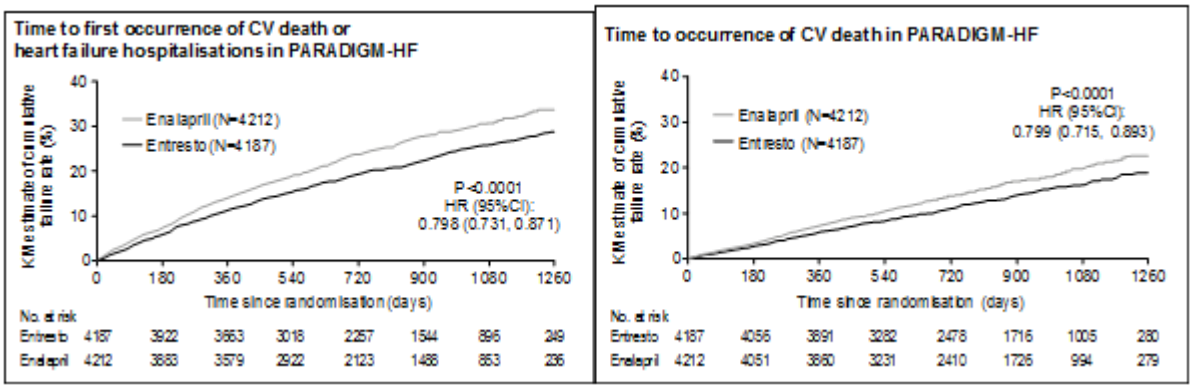
*The primary endpoint was defined as the time to first event of CV death or hospitalisation for HF.

**CV death includes all patients who died up to the cut-off date irrespective of previous hospitalisation.

***One-sided p-value

♯ Full analysis set

Figure 1 Kaplan-Meier curves for the primary composite endpoint and the CV death component



TITRATION

TITRATION was a reported 12-week safety and tolerability study in 538 patients with chronic heart failure (NYHA class II–IV) and systolic dysfunction (left ventricular ejection fraction ≤35%) naïve to ACE inhibitor or ARB therapy or on varying doses of ACE inhibitors or ARBs prior to study entry. Patients received a starting dose of Sacubitril and Valsartan of 50 mg twice daily and were up-titrated to 100 mg twice daily, then to the target dose of 200 mg twice daily, with either a 3-week or a 6-week regimen.

More patients who were naïve to previous ACE inhibitor or ARB therapy or on low-dose therapy (equivalent to <10 mg enalapril/day) were able to achieve and maintain Sacubitril and Valsartan 200 mg when up-titrated over 6 weeks (84.8%) versus 3 weeks (73.6%). Overall, 76% of patients achieved and maintained the target dose of Sacubitril and Valsartan 200 mg twice daily without any dose interruption or down-titration over 12 weeks.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Sacubitril and Valsartan in one or more subsets of the paediatric population in the treatment of heart failure

5.3 Pharmacokinetic properties

The valsartan contained within Sacubitril and Valsartan is more bioavailable than the valsartan in other marketed tablet formulations; 26 mg, 51 mg, and 103 mg of valsartan in Sacubitril and Valsartan is equivalent to 40 mg, 80 mg and 160 mg of valsartan in other marketed tablet formulations, respectively.

Absorption

Following oral administration, Sacubitril and Valsartan dissociates into valsartan and the prodrug sacubitril. Sacubitril is further metabolised to the active metabolite LBQ657. These reach peak plasma concentrations in 2 hours, 1 hour, and 2 hours, respectively. The oral

absolute bioavailability of sacubitril and valsartan is estimated to be more than 60% and 23%, respectively.

Following twice daily dosing of Sacubitril and Valsartan in a reported study, steady-state levels of sacubitril, LBQ657 and valsartan are reached in three days. At steady state, sacubitril and valsartan do not accumulate significantly, while LBQ657 accumulates 1.6-fold. Administration with food has no clinically significant impact on the systemic exposures of sacubitril, LBQ657 and valsartan. Sacubitril and Valsartan can be administered with or without food.

Distribution

Sacubitril, LBQ657 and valsartan are highly bound to plasma proteins (94-97%). Based on the comparison of plasma and CSF exposures, LBQ657 crosses the blood brain barrier to a limited extent (0.28%). The average apparent volume of distribution of valsartan and sacubitril were 75 litres to 103 litres, respectively.

Biotransformation

Sacubitril is readily converted to LBQ657 by carboxylesterases 1b and 1c; LBQ657 is not further metabolised to a significant extent. Valsartan is minimally metabolised, as only about 20% of the dose is recovered as metabolites. A hydroxyl metabolite of valsartan has been identified in plasma at low concentrations (<10%).

Since CYP450-enzyme-mediated metabolism of sacubitril and valsartan is minimal, co-administration with medicinal products that impact CYP450 enzymes is not expected to impact the pharmacokinetics.

In vitro metabolism studies indicate that potential for CYP450 based drug interactions is low since there is limited metabolism of sacubitril/valsartan via CYP450 enzymes. Sacubitril/valsartan does not induce or inhibit CYP450 enzymes.

Elimination

Following oral administration, 52-68% of sacubitril (primarily as LBQ657) and ~13% of valsartan and its metabolites are excreted in urine; 37-48% of sacubitril (primarily as LBQ657) and 86% of valsartan and its metabolites are excreted in faeces.

Sacubitril, LBQ657 and valsartan are eliminated from plasma with a mean elimination half-life ($T_{½}$) of approximately 1.43 hours, 11.48 hours, and 9.90 hours, respectively.

Linearity/non-linearity

The pharmacokinetics of sacubitril, LBQ657 and valsartan were approximately linear over an Sacubitril and Valsartan dose range of 24 mg sacubitril/26 mg valsartan to 97 mg sacubitril/103 mg valsartan.

Special populations

Elderly patients

LBQ657 and valsartan exposure are increased in subjects over 65 years of age by 42% and 30%, respectively, compared to younger subjects.

Impaired renal function

A correlation was observed between renal function and systemic exposure to LBQ657 in patients with mild to severe renal impairment. The exposure of LBQ657 in patients with moderate (30 ml/min/1.73 m^2 ≤ eGFR <60 ml/min/1.73 m^2) and severe renal impairment (15 ml/min/1.73 m^2 ≤ eGFR <30 ml/min/1.73 m^2) was 1.4-fold and 2.2-fold higher compared to patients with mild renal impairment (60 ml/min/1.73 m^2 ≤ eGFR <90 ml/min/1.73 m^2), the

largest group of patients enrolled in PARADIGM-HF). The exposure of valsartan was similar in patients with moderate and severe renal impairment compared to patients with mild renal impairment. No studies have been performed in patients undergoing dialysis. However, LBQ657 and valsartan are highly bound to plasma protein and therefore unlikely to be effectively removed by dialysis.

Impaired hepatic function

In patients with mild to moderate hepatic impairment, the exposures of sacubitril increased by 1.5- and 3.4- fold, LBQ657 increased by 1.5- and 1.9-fold, and valsartan increased by 1.2-fold and 2.1-fold, respectively, compared to matching healthy subjects. However, in patients with mild to moderate hepatic impairment, the exposures of free concentrations of LBQ657 increased by 1.47- and 3.08-fold, respectively, and the exposures of free concentrations of valsartan increased by 1.09-fold and 2.20-fold, respectively, compared to matching healthy subjects. Sacubitril and Valsartan has not been studied in patients with severe hepatic impairment, biliary cirrhosis or cholestasis

Effect of gender

The pharmacokinetics of Sacubitril and Valsartan (sacubitril, LBQ657 and valsartan) are similar between male and female subjects.

6. Nonclinical properties

6.1 Animal Toxicology or Pharmacology

Non-clinical data (including reported studies with sacubitril and valsartan components and/or Sacubitril and Valsartan) reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential and fertility.

Fertility, reproduction and development

Sacubitril and Valsartan treatment during organogenesis resulted in increased embryofoetal lethality in rats at doses ≥49 mg sacubitril/51 mg valsartan/kg/day (≤0.72-fold the maximum recommended human dose [MRHD] on the basis of AUC) and rabbits at doses ≥4.9 mg sacubitril/5.1 mg valsartan/kg/day (2-fold and 0.03-fold the MRHD on the basis of valsartan and LBQ657 AUC, respectively). It is teratogenic based on a low incidence of foetal hydrocephaly, associated with maternally toxic doses, which was observed in rabbits at an Sacubitril and Valsartan dose of ≥4.9 mg sacubitril/5.1 mg valsartan/kg/day. Cardiovascular abnormalities (mainly cardiomegaly) were observed in rabbit foetuses at a maternally non-toxic dose (1.46 mg sacubitril/1.54 mg valsartan/kg/day). A slight increase in two foetal skeletal variations (misshapen sternebra, sternebra bipartite ossification) was observed in rabbits at an Sacubitril and Valsartan dose of 4.9 mg sacubitril/5.1 mg valsartan/kg/day. The adverse embryofoetal effects of Sacubitril and Valsartan are attributed to the angiotensin receptor antagonist activity

Sacubitril treatment during organogenesis resulted in embryo-foetal lethality and embryo-foetal toxicity (decreased foetal body weights and skeletal malformations) in rabbits at doses associated with maternal toxicity (500 mg/kg/day; 5.7-fold the MRHD on the basis of LBQ657 AUC). A slight generalised delay in ossification was observed at doses of >50 mg/kg/day. This finding is not considered adverse. No evidence of embryo-foetal toxicity or teratogenicity was observed in rats treated with sacubitril. The embryo-foetal no-observed adverse effect level (NOAEL) for sacubitril was at least 750 mg/kg/day in rats and 200 mg/kg/day in rabbits (2.2-fold the MRHD on the basis of LBQ657 AUC).

Pre- and postnatal development reported studies in rats conducted with sacubitril at high doses up to 750 mg/kg/day (2.2-fold the MRHD on the basis of AUC) and valsartan at doses up to 600 mg/kg/day (0.86-fold the MRHD on the basis of AUC) indicate that treatment with Sacubitril and Valsartan during organogenesis, gestation and lactation may affect pup development and survival.

Other preclinical findings

Sacubitril and Valsartan

As per reported data, the effects of Sacubitril and Valsartan on amyloid-β concentrations in CSF and brain tissue were assessed in young (2-4 years old) cynomolgus monkeys treated with Sacubitril and Valsartan (24 mg Sacubitril/26 mg valsartan/kg/day) for two weeks. In this study, CSF Aβ clearance in cynomolgus monkeys was reduced, increasing CSF Aβ1-40, 1-42 and 1-38 levels; there was no corresponding increase in Aβ levels in the brain. Increases in CSF Aβ1-40 and 1-42 were not observed in a two-week healthy volunteer study in humans. Additionally, in a toxicology study in cynomolgus monkeys treated with Sacubitril and Valsartan at 146 mg sacubitril/154 mg valsartan/kg/day for 39 weeks, there was no evidence for the presence of amyloid plaques in the brain. Amyloid content was not, however, measured quantitatively in this study.

Sacubitril

In juvenile rats treated with sacubitril (postnatal days 7 to 70), there was a reduction in age-related bone mass development and bone elongation. A reported study in adult rats showed only a minimal transient inhibitory effect on bone mineral density but not on any other parameters relevant for bone growth, suggesting no relevant effect of sacubitril on bone in adult patient populations under normal conditions. However, a mild transient interference of sacubitril with the early phase of fracture healing in adults cannot be excluded.

Valsartan

In juvenile rats treated with valsartan (postnatal days 7 to 70), doses as low as 1 mg/kg/day produced persistent irreversible kidney changes consisting of tubular nephropathy (sometimes accompanied by tubular epithelial necrosis) and pelvic dilatation. These kidney changes represent an expected exaggerated pharmacological effect of angiotensin converting enzyme inhibitors and angiotensin II type 1 blockers; such effects are observed if rats are treated during the first 13 days of life. This period coincides with 36 weeks of gestation in humans, which could occasionally extend up to 44 weeks after conception in humans.

7. Description

ARNOZA 50

Violet, white colored, round shaped, biconvex film coated tablet with beveled edges, unscored, debossed with “U4” on one side and plain on the other side.

The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry White.

ARNOZA 100

Pale yellow colored, Oval shaped, biconvex film coated tablet with beveled edges, unscored, debossed with “U5” on one side and plain on the other side.

The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Yellow

ARNOZA 200

Light pink colored, oval shaped, biconvex film coated tablet with beveled edges, unscored, debossed with "U7" on one side and plain on the other side.

The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Pink.

8. Pharmaceutical particulars

8.1 Incompatibilities

Not applicable.

8.2 Shelf-life

Do not use later than date of Expiry

8.3 Packaging information

Available in 10 blister strips of 10 Tablets.

8.4 Storage and Handing Instructions

Store at a temperature not exceeding 30°C, protected from light and moisture.

Keep out of reach of children.

9. Patient counselling information

Package leaflet: Information for the patient

ARNOZA

Sacubitril and Valsartan 50 mg film-coated tablets

Sacubitril and Valsartan 100 mg film-coated tablets

Sacubitril and Valsartan 200 mg film-coated tablets

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.

- If you have any further questions, ask your doctor, pharmacist or nurse.

- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.

- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet.

What is in this leaflet?

9.3 How to take **ARNOZA**

9.4 Possible side effects

9.5 How to store **ARNOZA**

9.6 Contents of the pack and other information

9.1 What ARNOZA is and what it is used for

ARNOZA contains Sacubitril and Valsartan is a medicine known as an angiotensin receptor neprilysin inhibitor. It dissociates into two active substances, sacubitril and valsartan.

ARNOZA is used to reduce the risk of cardiovascular death and hospitalization for heart failure in patients with chronic heart failure (NYHA Class II-IV) and reduced ejection fraction.

9.2 What you need to know before you take ARNOZA

Do not take ARNOZA:

- If you are allergic to sacubitril, valsartan or any of the other ingredients of this medicine. If you think you may be allergic to any component of this medicine, talk to your doctor before taking **ARNOZA**.
- If you are taking another type of medicine called an angiotensin converting enzyme (ACE) inhibitor (for example enalapril, lisinopril or ramipril). ACE inhibitors are used to treat high blood pressure or heart failure. If you have been taking an ACE inhibitor, wait for 36 hours after taking the last dose before you start to take **ARNOZA** (see "Other medicines and **ARNOZA**").
- If you or a member of your family have ever had a reaction called angioedema (swelling of the face, lips, tongue and/or throat, difficulties in breathing) when taking an ACE **inhibitor or** an angiotensin receptor blocker (ARB) (such as telmisartan or irbesartan).
- If you have diabetes or impaired kidney function and you are being treated with a blood pressure lowering medicine containing aliskiren (see "Other medicines and **ARNOZA**).
- If you have severe liver disease.
- If you are more than 3 months pregnant (it is also better to avoid this medicine in early pregnancy, see "Pregnancy and breastfeeding").
- If any of the above applies to you, do not take **ARNOZA** and talk to your doctor.
- **Warnings and precautions**
- Talk to your doctor, pharmacist or nurse before taking **ARNOZA**.
- If you are being treated with an angiotensin receptor blocker (ARB) or aliskiren (see "Do not take **ARNOZA**").
- If you have ever had angioedema (see "Do not take **ARNOZA**")
- if you have low blood pressure or are taking any other medicines that reduce your blood pressure (for example, a diuretic) or are suffering from vomiting or diarrhoea, especially if you are aged 65 years or more, or if you have kidney disease and low blood pressure.
- If you have severe kidney disease.
- If you are suffering from dehydration.
- If your kidney artery has narrowed.

- If you have liver disease.

  When pregnancy is detected, discontinue the product as soon as possible. It can cause injury and death to the developing fetus.

  Your doctor may check the amount of potassium in your blood at regular intervals during Sacubitril and Valsartan treatment. If any of the above applies to you, tell your doctor, pharmacist or nurse before you take **ARNOZA.**

  Children and adolescents

  This medicine is not for use in children (aged below 18 years). This is because it has not been studied in this age group.

  Other medicines and ARNOZA

  Tell your doctor, pharmacist or nurse if you are taking, have recently taken or might take any other medicines. It may be necessary to change the dose, to take other precautions, or even to stop taking one of the medicines. This is particularly important for the following medicines:

- ACE inhibitors. Do not take **ARNOZA** with ACE inhibitors. If you have been taking an ACE inhibitor, wait 36 hours after taking the last dose of the ACE inhibitor before starting to take Sacubitril and Valsartan (see "Do not take Sacubitril and Valsartan"). If you stop taking Sacubitril and Valsartan, wait 36 hours after taking your last dose **ARNOZA** before starting an ACE inhibitor.
- Other medicines used to treat heart failure or lower blood pressure, such as angiotensin receptor blockers or aliskiren (see "Do not take Sacubitril and Valsartan").
- Some medicines known as statins that are used to lower high cholesterol levels (for example atorvastatin).
- Sildenafil, a medicine used to treat erectile dysfunction or lung hypertension.
- Medicines that increase the amount of potassium in the blood. These include potassium supplements, salt substitutes containing potassium, potassium-sparing medicines and heparin.
- Painkillers of the type called non-steroidal anti-inflammatory medicines (NSAIDs) or selective cyclooxygenase-2 (Cox-2) inhibitors. If you are taking one of these, your doctor may want to check your kidney function when starting or adjusting treatment (see "Warnings and precautions").
- **Lithium, a medicine used to treat some types of psychiatric illness.**
- **Furosemide, a medicine belonging to the type known as diuretics, which are used to increase the amount of urine you produce.**
- **Nitroglycerine, a medicine used to treat angina.**
- Some types of antibiotics (rifamycin group), ciclosporin (used to prevent rejection of transplanted organs) or antivirals such as ritonavir (used to treat HIV/AIDS).
- **Metformin, a medicine used to treat diabetes.**

  If any of the above applies to you, tell your doctor or pharmacist before you take **ARNOZA**

  Pregnancy and breastfeedingss

Pregnancy

You must tell your doctor if you think that you are (or might become) pregnant. Your doctor will normally advise you to stop taking this medicine before you become pregnant or as soon as you know you are pregnant, and will advise you to take another medicine instead of Sacubitril and Valsartan. This medicine is not recommended in early pregnancy, and must not be taken when more than 3 months pregnant, as it may cause serious harm to your baby if it is used after the third month of pregnancy.

Breastfeeding

Sacubitril and Valsartan is not recommended for mothers who are breastfeeding. Tell your doctor if you are breastfeeding or about to start breastfeeding.

Driving and using machines Before you drive a vehicle, use tools or operate machines, or carry out other activities that require concentration, make sure you know how Sacubitril and Valsartan affects you. If you feel dizzy or very tired while taking this medicine, do not drive a vehicle, cycle or use any tools or machines.

9.3 How to take ARNOZA

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

You will usually start by taking 24 mg/26 mg or 49 mg/51 mg twice a day (one tablet in the morning and one tablet in the evening). Your doctor will decide your exact starting dose based on which medicines you have been taking previously. Your doctor will then adjust the dose depending on how you respond to the treatment until the best dose for you is found. The usual recommended target dose is 97 mg/103 mg twice a day (one tablet in the morning and one tablet in the evening).

Patients taking ARNOZA can develop low blood pressure (dizziness, light-headedness), a high level of **potassium in the blood (which would be detected when your** doctor performed a blood test) or decreased kidney function. If this happens, your doctor may reduce the dose of any other medicine you are taking, temporarily reduce your Sacubitril and Valsartan dose, or stop your ARNOZA treatment completely. Swallow the tablets with a glass of water. You can take ARNOZA with or without food.

If you take more ARNOZA than you should

If you have accidentally taken too many Sacubitril and Valsartan tablets, or if someone else has taken your tablets, contact your doctor immediately. If you experience severe dizziness and/or fainting, tell your doctor as quickly as possible and lie down.

If you forget to take ARNOZA

It is advisable to take your medicine at the same time each day. However, if you forget to take a dose, you should simply take the next one at the scheduled time. Do not take a double dose to make up for a forgotten tablet.

If you stop taking ARNOZA

Stopping your treatment with **ARNOZA** may cause your condition to get worse. Do not stop taking your medicine unless your doctor tells you to.do

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

9.4 Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Some side effects may be serious.

- Stop taking **ARNOZA** and seek immediate medical attention if you notice any swelling of the face, lips, tongue and/or throat, which may cause difficulties in breathing or swallowing. These may be signs of angioedema (an uncommon side effect which may affect up to 1 in 100 people).

Other possible side effects:

If any of the side effects listed below becomes severe, tell your doctor or pharmacist.

Very common (may affect more than 1 in 10 people):

- Low blood pressure (dizziness, light-headedness)
- High level of potassium in the blood (shown in a blood test)
- decreased renal function (renal impairment)

Common (may affect up to 1 in 10 people):

- Cough
- Dizziness
- Diarrhoea
- Low level of red blood cells (shown in a blood test)
- Tiredness
- (acute) renal failure (severe kidney disorder)
- Low level of potassium in the blood (shown in a blood test)
- Headache
- fainting
- Weakness
- Feeling sick (nausea)
- Low blood pressure (dizziness, light-headedness) when switching from sitting or lying to standing position
- Gastritis (stomach pain, nausea)
- spinning sensation
- Low level of sugar in the blood (shown in a blood test)

Uncommon (may affect up to 1 in 100 people):

- Allergic reaction with rash and itching
- Dizziness when switching from sitting to standing position

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via any point of contact of Torrent Pharma available at: https://www.torrentpharma.com/index.php/site/info/adverse_event_reporting.

By reporting side effects, you can help provide more information on the safety of this medicine.

9.5 How to store ARNOZA

Store at a temperature not exceeding 30°C, protected from light and moisture.

Keep out of reach of children

9.6 Contents of the pack and other information

What **ARNOZA** contains

The active substances in ARNOZA are:

- **ARNOZA 50** Each film coated tablet contains: 24mg Sacubitril and 26mg Valsartan
- **ARNOZA 100** Each film coated tablet contains: 49mg Sacubitril and 51mg Valsartan
- **ARNOZA 200** Each film coated tablet contains: 97mg Sacubitril and 103mg Valsartan

ARNOZA 50: The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry White

ARNOZA 100: The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Yellow

ARNOZA 200: The excipients used are Micro crystalline cellulose, Low substituted Hydroxy propyl cellulose, Crospovidone, Talc, silicon dioxide, Povidone, Magnesium Stearate, Ethanol, Methylene chloride, Opadry Pink

10. Details of manufacturer

Torrent Pharmaceuticals Ltd

Vill. Bhud & Makhnu Majra,

Tehsil: Baddi, - 173 205,

Dist. Solan (H.P.), India

11. Details of permission or licence number with date

MNB/05/183 issued on 19.11.2020

12. Date of revision

Jan 2023

MARKETED BY

TORRENT PHARMACEUTICALS LTD.

Torrent House, Off Ashram Road,

Ahmedabad-380 009, INDIA

IN/ARNOZA 50, 100 and 200 mg/Jan/23/01/PI