# VALSATRIL<sup>®</sup> Tablets (Sacubitril/Valsartan)

## WARNING: FOETAL TOXICITY

When pregnancy is detected, discontinue VALSATRIL® as soon as possible. Drugs that act directly on the renin-angiotensin system can cause injury and death to the developing foetus

QUALITATIVE AND QUANTITATIVE COMPOSITION

26ma

VALSATRIL<sup>®</sup> 50 Film Coated Tablets

(as sacubitril valsartan sodium salt complex MS)

VALSATRIL<sup>®</sup> III Film Coated Tablets Each film coated tablet contains: Sacubitril......49mg  VALSATRIL<sup>®</sup> 2001 Film Coated Tablets Each film coated tablet contains (as sacubitril valsartan sodium salt complex MS)

PHARMACEUTICAL FORM

Each film coated tablet contains:

Annoaranco

Valsartan

VALSATRIL® 50 Film Coated Tablets: White color, film coated tablet capsular shaped tablet, engraved SAMI on one side and plain on the other side. VALSATRIL<sup>®</sup> 🚥 Film Coated Tablets: Light yellow to yellow color, film coated capsular shaped tablet, engraved SAMI on one side and plain on the other side.

VALSATRIL® 2001 Film Coated Tablets: Light pink to pink color, film coated oblong shape tablet, plain from both sides

CLINICAL PARTICULARS THERAPEUTIC INDICATIONS:

Adult heart failure: VALSATRIL<sup>®</sup> is indicated in adult patients for treatment of symptomatic chronic heart failure with reduced ejection fraction. Paediatric heart failure: VALSATRIL<sup>®</sup> is indicated in children and adolescents aged one year or older for treatment of symptomatic chronic heart failure with left entricular systolic dysfunction

POSOLOGY AND METHOD OF ADMINISTRATION:

Posology: General considerations: Sacubitril/valsartan should not be co-administered with an angiotensin-converting enzyme (ACE) inhibitor or an angiotensin II receptor blocket (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 herapy. The valsartan contained within sacubitril/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

take the next dose at the scheduled time. Adult heart failure: The recommended starting dose of VALSATRIL<sup>®</sup> is one tablet of 49mg/51mg 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 97mg/103mg twice daily, as tolerated by the patient. If patients experience tolerability issues (systolic blood pressure (SBP] ≤95mmHg, symptomatic hypotension, hyperkalemia, renal dysfunction), adjustment of concomitant medicinal products, temporary down-litration or discontinuation is recommended. In the PARADIGNHF study, sculptification was administered in conjunction with other heart failure therapies, in place of an ACE inhibitor or other ARB. There is limited 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 24mg/26mg 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 levels >5.4 mmolf or with SBP <100mmHg, a starting dose of 24mg/26mg twice daily should be consistered for patients with SBP <100 to 100mmHg. **Paediatric heart failure:** Table below shows the recommended dose for paediatric patients. The recommended dose should be taken orally twice daily. The dose should be consistent be table to a block on the table the activity for a subtration that bactering tables to an out subthof for children uncidition uncertained to a block on the leart the alter is the activity for activity table to activity for activity table and the tables of a block on the leart the alter a block on the little and inclusion for children uncidition activity for activity increased every 2-4 weeks to the target dose, as tolerated by the patient. Sacubitril/valsartan film-coated tablets are not suitable for children weighing less than 40kg. Sacubitril/valsartan granules are available for these patients.

Patient weight	To be given twice daily			
	Half the starting dose*	Starting dose	Intermediate dose	Target dose
Paediatric patients less than 40kg	0.8mg/kg#	1.6mg/kg#	2.3mg/kg#	3.1mg/kg#
Paediatric patients at least 40kg, less than 50kg	0.8mg/kg#	24mg/26mg	49mg/51mg	72mg/78mg
Paediatric patients at least 50kg	24mg/26mg	49mg/51mg	72mg/78mg	97mg/103mg

Half the string does is recommended in patients who have not been taking an ACE inhibitor or an ARB or have been taking and there medicinal products, half or the standard taking does in taking does inhibitor should start with half the standard starting does, which corresponds to 20 ang (25kg v 6 Markg) hwice daily (given as granules). The age of the age of the patient, if patients are or full capsules. After rounding to the bosest number of full capsules, and to capsules of Grangforg sacchildrel and tor be initiated in patients where mun potassime very 5.4 weeks taking and ACE inhibitor should be an integrated be applied to the spectra of full capsules. The capsule of the patient, if patients experience tolerability issues (38P c%) percentile for the age of the patient, symptomatic provolation and divertificial products tamoorany down diriging and capsules and the patient. The age of the patient, the patient and the inhibitor and divertificial products tamoorany down diriging and capsules for the patient. hypotension, hyperkalemia, renal dysfunction), adjustment of concomitant medicinal products, temporary down-titration or discontinuation of sacubitril/valsartan is mmended

Special populations: Elderly: 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 Special populations: Elderly: The does should be in line with the renal function of the elderly patient. Renal Impairment: No does adjustment is required in patients with mild (eGFR 60-90m/min/17.3m)" real impairment. Half of the starting does should be considered in patients with moderate renal impairment (eGFR 30-60m/min/17.3m"), scattering the considered in patients with moderate renal impairment (eGFR 30-60m/min/17.3m"), scattering does is not be considered in patients with moderate renal impairment (eGFR 30-60m/min/17.3m"), scattering does is recommended. The patients with given as granules) is recommended. After initiation, the does should be increased following the recommended dose titration every 2-4 weeks. There is no expense in patients with moderate end stage renal disease and use of sacubitril/valsatran is not recommended. Hepatic impairment: No dose adjustment is required when administering Sacubitril/valsatran to patients with mild hepatic impairment (Child-Pugh A classification). There is limited clinical experience in patients with moderate hepatic impairment (Child-Pugh A classification) rowith aspartate transminase (AST)/alanine transminase (ALT) values more than twice the upper limit of the normal range. Sacubitril/valsatran should be used with caution in these patients and half of the starting does in recommended. (In paediatic patients with moderate hepatic impairment (Child-Pugh A classification) can a granules) is recommended. After initiation, the does should be increased following the recommended does litration every 2-4 week. Sacubitril/valsatran is contraindicated in patients with recommended. After initiation, the does should be increased following the recommended does litration every 2-4 week. Sacubitril/valsatran is contraindicated in patients with wavee banetic and effective of a classification). The classification of the classification is children applies the patients with starting and the classification and the classification is classification of the classification is classifica severe hepatic impairment, biliary cirrhosis or cholestasis (Child-Pugh C classification). Paediatric population: The safety and efficacy of sacubitril/valsartan in children aged below 1 year have not been established.

Method of administration: Oral use. VALSATRIL<sup>®</sup> may be administered with or without food. The tablets must be swallowed with a glass of water. Splitting or crushing o the tablets is not recommended.

CONTRAINDICATIONS:

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

PECIAL WARNINGS AND PRECAUTIONS FOR USE:
Dual blockade of the renin-angiotensin-aldosterone system (RAAS):
• The combination of sacubitril/valsartan with an ACE inhibitor is contraindicated due to the
increased risk of angioedema. Sacubitril/valsartan must not be initiated until 36 hours after taking the last dose of ACE inhibitor therapy. If treatment with sacubitril/valsartan is
stopped, ACE inhibitor therapy must not be initiated until 36 hours after taking the last dose of ACE inhibitor therapy. If treatment with acubitril/valsartan is
stopped, ACE inhibitor therapy must not be initiated until 36 hours after taking the last dose of the renin-angiotensin-aldosterone system (RAAS):
• The combination of sacubitril/valsartan is
stopped, ACE inhibitor therapy must not be initiated until 36 hours after taking the last dose of the renin-angiotensin-aldosterone system (RAAS):
• The combination of sacubitril/valsartan is
stopped, ACE inhibitor therapy must not be initiated until 36 hours after taking the last dose of sacubitril/valsartan.
• The combination of sacubitril/valsartan with direct renin
inhibitors used is not recommended. The combination of sacubitril/valsartan with aliskirene-containing medicinal products is contraindicated in patients with direct renal impairment (eGFR <60ml/min/1.73m<sup>2</sup>).
• VALSATRIL<sup>®</sup> contains valsartan, and therefore should not be co-administered with another ARB containing medicinal products.

Hypotension: Treatment should not be initiated unless SBP is ≥100mmHg for adult patients or ≥5<sup>th</sup> percentile SBP for the age of the paediatric patient. Patients with SBF hyperturbation inclusion in the analysis interaction models as a recomming on dour particular batteries of a producting particular batteries and can below these values were not studied. Cases of symptomatic hypotension have been reported in adult patients treated with sequential utualing dirical studies, especially in patients ≥65 years old, patients with renal disease and patients with low SBP (<112mmHg). When initiating therapy or during does titration with secubitril/valsartan is commended. Does edustance not pressure should be monitored routinely. If hypotension course, themporary down-initiation of secubitril/valsartan is commended. Does edustance not diuretics, concomitant antihypertensives and treatment of other causes of hypotension (e.g. hypovolaemia) should be considered. Symptomatic hypotension is more likely to pocur 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 sacubitrilivalsartan, however, such corrective action must be carefully weighed against the risk of volume overload. Renal impairment: Evaluation of patients with heart failure should always include assessment of renal function. Tablents 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 CFR 30ml/min/173m<sup>2</sup>) and these patients may be at greatest risk of hypotension. There is new patients with end-stage renal disease and use of sacubitrilivalsartan is not recommended.

be at greatest risk of hypotension. There is no experience in patients with end-stage renal disease and use of sacubitiValsattan is not recommended. Worsening renal function: Use of sacubitiValsattan may be associated with derevased 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. Hyperkalemia: Treatment should not be initiated if the serum potassium level is >5.4mmol/l in aduit patients and >5.3mmol/l in patients who see of sacubitiValsartan may be associated with an increased risk of hyperkalemia, although hypokalemia 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 is recommended, especially in patients who patientically significant hyperkalemia, although substement of non-attention or discontinuation is recommended. If serum potassium level is >5.4mmol/l discontinuation should be considered. Angioedema: Angioedema has been reported in patients treated with sacubitril/valsartan. If angioedema occurs, sacubitril/valsartan should be immediately discontinued and appropriate therapy and monitoring should be provided until complete and sustained resolution of signs and symptoms has courred. It must not be re-administered. In cases of continued 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 largeel adeedem amy be tall. Where there is involvement of the torgue, glottor or largym tikely to cause airwo

of confirmed angicedema where swelling has been confined to the face and lips, the condition has generally resolved without treatment, although antihistamines have been useful in releving symptoms. Angicedema associated with anyraged ocfarm any be fatal. Where there is involvement of the tongue, glotics or larynx likely to cause ainvey obstruction, appropriate therapy, e.g. adrenaline solution 1mg/1ml (0.3-0.5ml), and/or measures necessary to ensure a patent ainvay, should be promptly administered. Patients with a prior history of angioedema associated with anyraged ocfarm any be talk lyher there is involvement of the tongue, glotics or larynx likely to cause ainvey patents. Sacubitini/vastartan is contraindicated in patients with a known history of angioedema related in secubitini/vastartan is contraindicated in patients with a known history of angioedema. Black patients have an increased susceptibility to develop angicedema related to previous ACE inhibitor or ARB therapy or with herediariary or idopating angioedema. Black patients have an increased susceptibility to develop angicedema related to previous ACE inhibitor or ARB therapy or with herediariary or diopating angioedema. Black patients with renal artery stenosis: Sacubitini/valsartan no increase blood uree and serum creatinine levels in patients with blateral or unlateral renal artery stenosis. Sacubitini/valsartan to classification IV: Caution should be exercised when initiating sacubitrilvalsartan in patients with NYHA unctional classification IV: Caution should be exercised when initiating sacubitrilvalsartan is patients. Bryper limited clinical experience in this population.

using it in these patients. Sacubitril/valsartan is contraindicated in patients with severe hepatic impairment, billary cirrhosis, or cholestasis (Child-Pugh C classification). Psychiatric disorders: Psychiatric events such as hallucinations, paranoia, and sleep disorders, in the 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

Sodium: This medicinal product contains less than 1mmol sodium (23mg) per 97mg/103mg dose, that is to say essentially 'sodium free'

#### INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORM OF INTERACTIONS:

Interactions resulting in a contraindication: ACE inhibitors: The concomitant use of sacubirillyalsartan with ACE inhibitors is contraindicated, as the concomitant inhibition of neophysin (NEP) and ACE may increase the risk of angioedema. Sacubirillyalsartan with the started until 36 hours after taking the last dose of ACE inhibitor threnapy ACE inhibitor threnapy must not be started until 36 hours after the last dose of sacubirillyalsartan. *Miskinen*: The concomitant use of sacubirillyalsartan with ace inhibitor threnapy aliskiren-containing medicinal products is contraindicated in patients with diabetes mellitus or patients with renal impairment (eGFR <60ml/min(1.73m<sup>2</sup>). The combination of sacubitril/valsartan with direct renin inhibitors such as aliskiren is not recommended. A combination of sacubitril/valsartan with aliskiren is potentially associated with a higher requency of adverse reactions such as hypotension, hyperkalemia, and decreased renal function (including acute renal failure). Interactions resulting in concomitant use not being recommended: Sacubitril/valsartan contains valsartan, and therefore should not be co-administered with another ARB

ing medicinal products

Interactions realiant products: Interactions requiring precautions: OATP1B1 and OATP1B3 substrates, e.g. statins: In vitro data indicate that sacubitil inhibits OATP1B1 and OATP1B3 substrates, e.g. statins: In vitro data indicate that sacubitil inhibits OATP1B1 and OATP1B3 substrates, e.g. statins: In vitro data indicate that sacubitil inhibits OATP1B1 and OATP1B3 substrates, e.g. statins: In vitro data indicate that sacubitil inhibits OATP1B1 and OATP1B3 substrates, e.g. statins: In vitro data indicate that sacubitil inhibits OATP1B1 and OATP1B3 substrates, e.g. statins: Co-administration of sacubitil/valsartan increased the C<sub>w</sub> of atorvastatin and its metabolites by up to 2-fold and AUC by up to 13-fold. Caution should be exercised when co-administration situation invastatin and sacubitil/valsartan were co-administered. *PDES inhibitors including situatematic*. And a single dose of sildenafil to sacubitil/valsartan at steady state in patients with hypertension was associated with a significantly greater blood pressure reduction compared to administration of sacubitil/valsartan is cavabitil/valsartan and the exercised when sidenafil or another PDES inhibitors initiated in patients treated with sacubitil/valsartan or observed when subtratily or another PDES inhibitors initiated in patients treated with sacubitil/valsartan or a sacubitil/valsartan or a sacubitil/valsartan endore. Therefore, caution should be exercised when aidenafil or another PDES inhibitors initiated in patients treated with sacubitil/valsartan. Potassium: Concomitant use of potassium sparing diureties (triamteree, amiloride), mineralocritorid attagonists (e.g. spironolactone, eplerenone), potassium supplements, satustitules containing potassium or other agents (such as heparin) may lead to increase agents. Non-steroidal anti-inflammatory gaents (NSADD), including selective cyclooxygenase-2 (COX-2) inhibitors: In elderly patients, volume-depleted patients (including those on diverte therapy), or patients with comportised renal function, rec oncomitant use of sacubitril/valsartan and NSAIDs may lead to an increased risk of worsening of renal function. Therefore, monitoring of renal function is recommended when nitiating or modifying treatment in patients on sacubitril/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 including sacubitril/valsartan. Therefore, this bxicity have been reported during concomitant administration of lithium with ACE inhibitors or angiotensin II receptor antagonists including sacubiti/Valsartan. Therefore, this combination is not recommended. If a during the test of lithium with ACE inhibitors or angiotensin II receptor antagonists including sacubiti/Valsartan. Therefore, this bxicity may be increased further. *Furosemide*: Co-administration of sacubiti/Valsartan and furosemide had on effect on the pharmacokineties of sacubiti/Valsartan but reduced C<sub>mm</sub> and AUC of furosemide by 50% and 28%, respectively. While there was no relevant change in urine volume, the urinary excretion of sacubiti/Valsartan but reduced 4 hours after co-administration. The average dialy does of furosemide was unchanged from baseline until the end of the PARADGM-HF study in patients treated with sacubiti/Valsartan. **Nitrates**, e.g. *nitroglycenine*: There was no interaction between sacubiti/Valsartan and furosemide had on the opper multi-section of the administration of the administration of the administration of nitroglycenine and sacubitifi/Valsartan administered introglycenine administered introglycenine administered with sacubitifi/Valsartan is co-administered with sacubitifi/Valsartan is also a MRP2 substrate. Therefore, co-administration of nation of acubitifi/Valsartan is also a MRP2 substrate. Therefore, co-administration of acubitifi/Valsartan is also a MRP2 substrate. Therefore, co-administration of sacubitifi/Valsartan with inhibitors of OATPIE1, OATPIE3, OATPIE3, OATPIE1, OATPIE3, OATPIE1, OATPIE3, OATPI 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/valsartan with metformin reduced both Cmet and AUC of metform in hy 23% The clinical relevance of these findings is unknown. Therefore, when initiating therapy with sacubitril/valsartan in patients receiving metformin, the clinical status of the patient ould be evaluated

noon be virtualized. No significant interaction: No clinically meaningful interaction was observed when sacubitril/valsartan was co-administered with digoxin, warfarin, hydrochlorothiazide, amlodipine, omeprazole, carvedilol or a combination of levonorgestrel/ethinyl estradiol.

FERTILITY, PREGNANCY AND LACTATION: Fertility: There are no available data on the effect of sacubitril/valsartan on human fertility. No impairment of fertility was demonstrated in studies. Pregnancy: The use of sacubitril/valsartan is not recommended during the first trimester of pregnancy and is contraindicated during the second and third trimesters of

Breast-feeding: Because of the potential risk for adverse reactions in breastfed newborns/infants, it is not recommended during breast-feeding. A decision should be made

whether to abstain from breast-feeding or to discontinue, taking into account the importance of sacubitril/valsartan to the mothe EFFECTS ON THE ABILITY TO DRIVE AND USE MACHINES:

Sacubitril/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 cccasionally dizziness or fatigue may occur.

#### UNDESIRABLE EFFECTS:

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, verse reactions are ranked in order of decreasing seriousness.

Blood and lymphatic system disorders: Common: Anaemia

mmune system disorders: Uncommon: Hypersensitivity.

Immune system disorders: Uncommon: Hypersensitivity. Metabolism and nutrition disorders: Very common: Hyperkalaemia. Common: Hypokalaemia, hypoglycaemia. Uncommon: Hyponatraemia. Psychiatric disorders: Carne: Hallucinations"; sleep disorders. Very rare: Paranola. Nervous system disorders: Common: Dizziness, headache, syncope. Uncommon: Dizziness postural. Ear and labyrint disorders: Common: Hypotension. Common: Orthostatic hypotension. Respiratory, throacia: can mediastinal disorders: Common: Cough. Sastrointestinal disorders: Common: Dizrhoea, nausea, gastritis. Skin and subcutaneous tissue disorders: Uncommon: Pruritus, rash, angioedma. Renal and urinary disorders: Key common: Renal impairment. Common: Renal failure (renal failure, acute renal failure). General disorders and administration site conditions: Common: Fatigue, asthenia. Hondrina, authoravand sixua Bulicingations

\*Including auditory and visual hallucinations

OVERDOSE

HENDSE: miled data are available with regard to overdose in humans. A single dose of 583mg sacubitril/617mg valsartan and multiple doses of 437mg sacubitril/463mg valsarta 4 days) were studied in healthy adult volunteers and were well tolerated. Hypotension is the most likely symptom of overdose due to the blood pressure lowering effects i cubitril/valsartan. Symptomatic treatment should be provided. The medicinal product is unlikely to be removed by haemodialysis due to high protein binding. (14 days

# PHARMACOLOGICAL PROPERTIES PHARMACODYNAMIC PROPERTIES:

Pharmacotherapeutic group: Agents acting on the renin-angiotensin system; angiotensin II receptor blockers (ARBs), other combinations, ATC code: C09DX04.

Mechanism of action: Sacubitril/valsartan exhibits the mechanism of action of an angiotensin receptor neprilysin inhibitor by simultaneously inhibiting neprilysin (neutral andopeptidase; NEP) via LBQ667, 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/valsartan in heart failure patients are attributed to the enhancement of peptides that are degraded by neprilysin, such as natriureits peptides (NP), by LBQ657 and the simultaneous inhibiton of the effects of angiotensin II by valsartan. The somplementary pclase-coupled receptors, resulting in increased concentrations of the second messenger cyclic guanosite monophosphate (CGMP), which could result in vasodilation, natriuresis and diuresis, increased jomerular dittration rate and renal blocd flow, inhibiton of tennia and aldosterom 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 addosterom release. This prevents sustained activation of the renal-effects of angiotensin-aldosterom estimates. This prevents sustained activation of the ratio-respised that would result in vasoconstriction, renal sodium, and fluid retention, activation of cellular growth and proliferation, and subsequent maladaptive cardiovascular remodeling.

## PHARMACOKINETICS:

The valuation contained within sacubitril/valsartan is more bioavailable than the valsartan in other marketed tablet formulations; 26mg, 51mg, and 103mg of valsartan in sacubitril/valsartan is equivalent to 40mg, 80mg and 160mg of valsartan in other marketed tablet formulations, respectively. Paediatric population: The pharmacokinetics of sacubitil/valsartan mere valuated in paediatric heart failure patients aged 1 month to <1 year and 1 year to <18 years and indicated that the pharmacokinetic profile of sacubitil/valsartan in pediatric and adult patients is similar.

Paediatric population: The pharmacokinetics of sacubitifivalsartan were evaluated in paediatric heart failure patients aged 1 month to <1 year and 1 year to <18 years and indicated that the pharmacokinetic profile of sacubitifivalsartan in gedatric and adult patients is similar. Adult population: Absorption: Following and administration, sacubitifivalsartan dissociates into valsartan and the prodrug sacubitril. Sacubitri is further metabolized to the schwer healbolite LDGS7. These reach peak plasma concentrations in 2 hours, 1 hour, and 2 hours, respectively. The oral absolute bioavailability of sacubitril, BDGS7. These reach peak plasma concentrations in 2 hours, 1 hour, and 2 hours, respectively. The oral absolute bioavailability of sacubitril, BDGS7, and valsartan is estimated to be more than 60% and 23%, respectively. Following hvice daily dissing of sacubitril, BDGS7, and valsartan are highly bound to plasma proteins (94-97%). Based on the comparison of plasma and CSF exposures, LDGS7 recesses the blood-brain barrier to a significant type of a sacubitril waster and a sacubitril waster and a sacubitril waster and to concentrations (~10%). *Elimitation:* Following calministration with food has no clinically significant type of a sacubitril waster and a sacubitril waster and a low concentrations (~10%). *Elimitation:* Following calministration and is metabolites are excreted as metabolites. Alvydoxy metabolite of valsartan and ta subactificat and to valsartan are indived bloce valsartan excreted as metabolites are excreted as metabolites are excreted as metabolites. Alvydoxy metabolite of valsartan and ta metabolites are excreted in urins; 37-44% of sacubitril (JoBGS7) and 47% of days davatan exposure of Vang sacubitril/Vang valsartan. Special populations: *Elderly*: LEGS7 and valsartan evid metabolites are excreted in urins; 37-44% of a a0%, respectively, *Compared* to yanger subjects. **Frenal populations:** *Elderly*: LEGS7 and valsartan explaines and the metabolites are excreted in urins; 37-44% of a a0

#### PRECLINICAL SAFETY DATA

PRECLINICAL SAFETY DATA: Non-clinical data (including studies with sacubitril and valsartan components and/or sacubitril/valsartan) reveal no special hazard for humans based on conventional studies of safety harmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, and fertility. Other preclinical findings: Sacubitril/valsartan: The effects of sacubitril/valsartan on amyloid-β concentrations in CSF and brain tissue were assessed in young (2-4 years jold) cynomology monkeys treated with sacubitril/valsartan (2mg sacubitril/valsartan) reveal no special hazard for humans based on conventional studies of another systems 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 and absorbed in the human hole hour work behave that the unit is not observed in the contractivity contractive and the contractivity contractive and the contractivity contractive and the contractivity contractive to a distingent is a behaviore to the contractive to reduce at 1.67 ms. not observed in a two-week healthy volunteer study in humans. Additionally, in a toxicology study in cynonolgus moneys treated with sacubit/in/statant at 14 and sacubit/11/54mg valsatankg/day for 39 weeks, there was no evidence for the presence of amyloid plaques in the brain. Amyloid content was not, however, measured puantitatively in this study.

#### PHARMACEUTICAL PARTICULARS

LIST OF EXCIPIENTS:

VALSATRIL<sup>®</sup> 50 Film Coated Tablets:

Core: Coating:

#### VALSATRIL<sup>®</sup> IIII Film Coated Tablets:

 Mircocrystalline cellulose Hydroxypropyl cellulose Crospovidone Talcum Silicon dioxide Magnesium stearate
 g: Hydroxypropyl methyl cellulose Simethicone Talcum Powder Titanium dioxide Polyethylene glycol Coating: 
• Hydroxy
• Yellow iron oxide colo Poly vinyl pyrrolidone

# VALSATRIL<sup>®</sup> 200 Film Coated Tablets:

Core: 
Microcrystalline cellulose
Hydroxypropyl cellulose
Crospovidone
Talcum
Microcrystalline cellulose
Hydroxypropyl methyl cellulose
Koating:
Hydroxypropyl methyl cellulose
Koating:
Hydroxypropyl methyl cellulose
Koating:
Koa

INCOMPATIBILITIES: Not applicabl

SHELF LIFE:

### See expirv on the pack. SPECIAL PRECAUTIONS FOR STORAGE

Do not store over 30°C, and protect from heat and moisture. Improper storage may deteriorate the medicine. Keep out of reach of children

# NATURE AND CONTENTS OF CONTAINER:

VALSATRIL<sup>®</sup> 50 Film Coated Tablets: Alu/Alu blister, pack size is 14 tablets. VALSATRIL<sup>®</sup> IIII Film Coated Tablets: Alu/Alu blister, pack size is 14 tablets VALSATRIL<sup>®</sup> 200 Film Coated Tablets: Alu/Alu blister, pack size is 14 tablets.

#### SPECIAL PRECAUTIONS FOR DISPOSAL OF A USED PRODUCT:

Any unused medicinal product or waste material should be disposed of in accordance with local requirements

DRUG PRODUCT SPECIFICATIONS: nnovator's Specs

# MARKETING AUTHORISATION HOLDER

SAM Pharmaceuticals (Pt.) Ltd. SAM Pharmaceuticals (Pt.) Ltd. Www.samiphamapk.com Mig. Lc. No. 000072

### MARKETING AUTHORISATION NUMBER(S) VALSATRII<sup>®</sup> 50 Film Coated Tablets: 093098 VALSATRIL<sup>®</sup> IIII Film Coated Tablets: 093083 VALSATRIL<sup>®</sup> 200 Film Coated Tablets: 093082

DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION VALSATRIL<sup>®</sup> Con Film Coated Tablets: 16th January, 2019 VALSATRIL<sup>®</sup> 100 Film Coated Tablets: 16th January, 2019 VALSATRIL<sup>®</sup> 2001 Film Coated Tablets: 16th January, 2019

<b>وبیل ساٹرل<sup>®</sup> ٹی<sub>بلٹ</sub></b> (سیکویڑل/والسارٹن)	
ېدايات:	
<b>خوراک</b> : ڈاکٹر کی ہدایت کے مطابق استعال کریں۔	
صرف دجیڑ ڈ ڈاکٹر کے نسخے کے مطابق فروخت کریں ۔	

DATE OF REVISION OF THE TEXT

مرف رسر دو اسرے ے سے جار رو سے رو بچوں کی پیچ ہے دور رکھیں۔ دواکو ۳ ڈرکن پینو کر کڈ سے زیادہ درجہ کرارت پر نہ رکھیں، گرمی اور نمی سے محفو ظر رکھیں ورنہ دواخراب ہوجا یکی۔

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