METALYSE[®] Powder and solvent for solution for injection



Composition

METALYSE[®] 6,000 units: 1 vial contains 6,000 units (30 mg) tenecteplase. 1 pre-filled syringe contains 6 ml water for injections.

METALYSE[®] 8,000 units: 1 vial contains 8,000 units (40 mg) tenecteplase. 1 pre-filled syringe contains 8 ml water for injections.

METALYSE[®] 10,000 units:

1 vial contains 10,000 units (50 mg) tenecteplase.

1 pre-filled syringe contains 10 ml water for injections.

The reconstituted solution contains 1,000 units (5 mg) tenecteplase per ml.

Potency of tenecteplase is expressed in units (U) by using a reference standard which is specific for tenecteplase and is not comparable with units used for other thrombolytic agents.

Description

White to off-white powder and solvent for solution for injection

Pharmacological Properties

Tenecteplase is a recombinant fibrin-specific plasminogen activator that is derived from native t-PA by modifications at three sites of the protein structure. It binds to the fibrin component of the thrombus (blood clot) and selectively converts thrombus-bound plasminogen to plasmin, which degrades the fibrin matrix of the thrombus. Tenecteplase has higher fibrin specificity and greater resistance to inactivation by its endogenous inhibitor (PAI-1) compared to native t-PA.

After administration of tenecteplase dose dependent consumption of α 2-antiplasmin (the fluid-phase inhibitor of plasmin) with consequent increase in the level of systemic plasmin generation have been observed. This observation is consistent with the intended effect of plasminogen activation. In comparative studies a less than 15% reduction in fibrinogen and a less than 25% reduction in plasminogen were observed in subjects treated with the maximum dose of tenecteplase (10,000 U, corresponding to 50 mg), whereas alteplase caused an approximately 50% decrease in fibrinogen and plasminogen levels. No clinically relevant antibody formation was detected at 30 days.

Patency data from the phase I and II angiographic studies suggest that tenecteplase, administered as a single intravenous bolus, is effective in dissolving blood clots in the infarct-related artery of subjects experiencing an AMI on a dose related basis.

ASSENT 2 study

A large scale mortality trial (ASSENT 2) in approx. 17,000 patients showed that tenecteplase is therapeutically equivalent to alteplase in reducing mortality (6.2% for both treatments, at 30 days) and that the use of tenecteplase is associated with a significantly lower incidence of non-intracranial bleedings (26.4% vs. 28.9%, p=0.0003). The reduction of the risk of bleeding is likely to be related to the increased fibrin specificity of tenecteplase and to its weight adapted regimen.

This translates into a significantly lower need of transfusions (4.3% vs. 5.5%, p=0.0002). Intracranial haemorrhage occurred at a rate of 0.93% vs. 0.94% for tenecteplase and alteplase, respectively. In the 475 patients treated beyond 6 hours numerical differences in favour of tenecteplase were observed with regard to 30-day mortality (4.3% vs. 9.6%), stroke (0.4% vs. 3.3%) and ICH (0% vs. 1.7%).

ASSENT 3 study

The ASSENT 3 study aimed to optimise tenecteplase concomitant antithrombotic therapy towards both improving early patency rates and maintaining perfusion, mainly to overcome the paradoxical procoagulant effect arising from the release by clot lysis of trapped thrombin. Three different concomitant antithrombotic regimens were compared in 6,095 patients: Full-dose tenecteplase + unfractionated heparin (UFH) versus full-dose tenecteplase + low molecular weight (LMW) heparin (enoxaparin) versus half-dose tenecteplase + unfractionated heparin + full dose abciximab.

UFH was used as recommended by AHA/ACC guidelines according to a full body-weight adapted low dose regimen as follows: A single i.v. bolus of 60 IU/kg (maximum 4000 IU) immediately followed by an intravenous infusion of 12 IU/kg/hr (maximum 1000 IU/hr) for the first 3 hours, thereafter according to aPTT monitoring for up to 48 hours to maintain aPTT at 50-70 seconds.

30-day mortality rates are respectively 6.0%, 5.4% and 6.6%, the in-hospital major bleeds (other than ICH) 2.16%, 3.04% and 4.32%.and the intracranial haemorrhage 0.93%, 0.88% and 0.94%.

The recommended ACC/AHA fully body-weight adjusted low dose unfractionated heparin regimen used in ASSENT 3 concomitantly with tenecteplase results in less systemic bleeding but similar ICH rates compared to the more aggressive unfractionated heparin regimen dosing used in ASSENT 2 without loss of efficacy.

ASSENT 3 PLUS study

ASSENT 3 PLUS, a satellite study of ASSENT 3, was designed to investigate the pre-hospital setting. The efficacy and safety of full-dose tenecteplase + unfractionated heparin versus full-dose tenecteplase + low molecular weight (LMW) heparin (enoxaparin) has been evaluated in 1639 patients.

The study design and treatments dosage used are identical to those of the ASSENT 3 study. Pre-hospital reperfusion therapy with tenecteplase and UFH or enoxaparin allowed treatment within 2 hours of symptom onset in >50% of the patients with STEMI.

From ASSENT 3 and 3 PLUS studies, pre-hospital as well as in-hospital adjunctive therapy with enoxaparin reduced the incidence of ischemic complications as compared to adjunctive therapy with UFH: the incidence of 30-day efficacy composite endpoint (death, re-infarction, refractory ischaemia) was respectively 11.4% versus 15.4% in ASSENT 3 and 14.2% versus 17.4% in ASSENT 3 PLUS. However, in the pre-hospital setting, tenecteplase with enoxaparin at the dose used was associated with an increased risk of major bleeding and ICH in patients >75 years of age.

Coronary patency and limited clinical outcome data showed that AMI patients have been successfully treated later than 6 hours after symptom onset.

ASSENT-4 PCI study

The ASSENT-4 PCI study was designed to show if in 4000 patients with large myocardial infarctions pretreatment with full dose tenecteplase and concomitant single bolus of up to 4,000 IU unfractionated heparin administered prior to primary Percutaneous Coronary Intervention (PCI) to be performed within 60 to 180 minutes leads to better outcomes than primary PCI alone. The trial was prematurely terminated with 1667 randomised patients due to a numerically higher mortality in the facilitated PCI group receiving tenecteplase. The occurrence of the primary endpoint, a composite of death or cardiogenic shock or congestive heart failure within 90 days, was significantly higher in the group receiving the exploratory regimen of tenecteplase followed by routine immediate PCI: 18.6% (151/810) compared to 13.4% (110/819) in the PCI only group, p=0.0045. This significant difference between the groups for the primary endpoint at 90 days was already present in-hospital and at 30 days. Numerically, all of the components of the clinical composite endpoint were in favour of the PCI only regimen: death: 6.7% versus 4.9% p=0.14; cardiogenic shock: 6.3% versus 4.8% p=0.19; congestive heart failure: 12.0% versus 9.2% p=0.06 respectively. The secondary endpoints re-infarction and repeat target vessel revascularisation were significantly increased in the group pre-treated with tenecteplase: reinfarction: 6.1% versus 3.7% p=0.0279; repeat target vessel revascularisation: 6.6% versus 3.4% p=0.0041.

The following adverse events occurred more frequently with tenecteplase prior to PCI: intracranial haemorrhage: 1% versus 0% p=0.0037; stroke: 1.8% versus 0% p<0.0001; major bleeds: 5.6% versus 4.4% p=0.3118; minor bleeds: 25.3% versus 19.0% p=0.0021; blood transfusions: 6.2% versus 4.2% p=0.0873; abrupt vessel closure: 1.9% versus 0.1% p=0.0001.

STREAM study

The STREAM study was designed to evaluate the efficacy and safety of a pharmaco-invasive strategy of early fibrinolytic treatment with tenecteplase and additional antiplatelet and anticoagulant therapy followed by angiography within 6-24 hours or rescue coronary intervention versus a strategy of standard primary PCI.

The study population consisted of patients with ST elevation acute myocardial infarction within 3 hours of onset of symptoms not able to undergo primary PCI within one hour of first medical contact. A sample size of approximately 1000 patients per treatment group was planned for this exploratory study. After 382 patients had been enrolled (19.5 % of the planned study population), the dose of the tenecteplase bolus was reduced by half for the patients \geq 75 years because of a higher incidence of

intracranial haemorrhage (ICH) in this sub-group.

1892 patients were randomised by means of an interactive voice response system. The primary endpoint, a composite of death or cardiogenic shock or congestive heart failure or re-infarction within 30 days was observed in 12.4% (116/939) of the pharmaco-invasive arm versus 14.3% (135/943) in the primary PCI arm (relative risk 0.86 (0.68-1.09)).

Single components of the primary composite endpoint for the pharmaco-invasive strategy versus primary PCI respectively were observed with the following frequencies:

	Pharmaco-invasive (n=944)	Primary PCI (n=948)	Р
Composite death, shock, congestive			
heart failure, reinfarction	116/939 (12.4%)	135/943 (14.3%)	0.21
All-cause mortality	43/939 (4.6%)	42/946 (4.4%)	0.88
Cardiogenic shock	41/939 (4.4%)	56/944 (5.9%)	0.13
Congestive heart failure	57/939 (6.1%)	72/943 (7.6%)	0.18
Reinfarction	23/938 (2.5%)	21/944 (2.2%)	0.74
Cardiac mortality	31/939 (3.3%)	32/946 (3.4%)	0.92

The observed incidence of major and of minor non-ICH bleeds were similar in both groups:

	Pharmaco-invasive	Primary PCI	Р
	(n=944)	(n=948)	
Major non-ICH bleed	61/939 (6.5%)	45/944 (4.8%)	0.11
Minor non-ICH bleed	205/939 (21.8%)	191/944 (20.2%)	0.40

Incidence of total strokes and intracranial haemorrhage

	Pharmaco-invasive (n=944)	Primary PCI (n=948)	Р
Total stroke (all types)	15/939 (1.6%)	5/946 (0.5%)	0.03*
Intracranial haemorrhage Intracranial haemorrhage after protocol amendment to half dose in	9/939 (0.96%)	2/946 (0.21%)	0.04**
patients ≥ 75 years :	4/747 (0.5%)	2/758 (0.3%)	0.45

* the incidences in both groups are those expected in STEMI patients treated by fibrinolytics or primary PCI (as observed in previous clinical studies).

** the incidence in the pharmaco-invasive group is as expected for fibrinolysis with Metalyse (as observed in previous clinical studies).

None of the differences between groups displayed in the above tables reached the threshold of statistical significance except for the incidence of total strokes and ICH, however the incidences in the pharmaco-invasive group were as observed in previous clinical studies.

After the dose reduction of tenecteplase by half in patients \geq 75 years there was no further intracranial hemorrhage (0 of 97 patients) (95% CI: 0.0- 3.7) versus 8.1% (3 of 37 patients) (95% CI: 1.7- 21.9) prior to the dose reduction. The bounds of the confidence interval of the observed incidences prior and after dose reduction are overlapping.

Pharmacokinetics

Absorption and distribution

Tenecteplase is an intravenously administered, recombinant protein that activates plasminogen. Following i.v. bolus administration of 30 mg tenecteplase in patients with acute myocardial infarction, the initially estimated tenecteplase plasma concentration was $6.45 \pm 3.60 \ \mu g/mL$ (mean \pm SD). The distribution phase represents $31\% \pm 22\%$ to $69\% \pm 15\%$ (mean \pm SD) of the total AUC following the administration of doses ranges from 5 to 50 mg.

Data on tissue distribution were obtained in studies with radioactively labelled tenecteplase in rats. The main organ to which tenecteplase distributed was the liver. It is not known whether and to which extent tenecteplase binds to plasma proteins in humans. The mean residence time (MRT) in the body is

approximately 1 h and the mean (\pm SD) volume of distribution at the steady-state (Vss) ranged from 6.3 \pm 2 L to 15 \pm 7 L.

<u>Metabolism</u>

Tenecteplase is cleared from the circulation by binding to specific receptors in the liver followed by catabolism to small peptides. Binding to hepatic receptors is, however, reduced compared to native t-PA, resulting in a prolonged half-life.

Elimination

After single intravenous bolus injection of tenecteplase in patients with acute myocardial infarction, tenecteplase antigen exhibits biphasic elimination from plasma. There is no dose dependence of tenecteplase clearance in the therapeutic dose range. The initial, dominant half-life is 24 ± 5.5 (mean \pm SD) min, which is 5 times longer than native t-PA.

The terminal half-life is 129 ± 87 min, and plasma clearance is 119 ± 49 ml/min.

Increasing body weight resulted in a moderate increase of tenecteplase clearance, and increasing age resulted in a slight decrease of clearance. Women exhibit in general lower clearance than men, but this can be explained by the generally lower body weight of women.

Linearity/Non-Linearity

The dose linearity analysis based on AUC suggested that tenecteplase exhibits non-linear pharmacokinetics in the dose range studied, i.e. 5 to 50 mg.

Special populations

Renal and hepatic impairment

Because elimination of tenecteplase is through the liver, it is not expected that renal dysfunction will affect the pharmacokinetics of METALYSE[®]. This is also supported by animal data. However, the effect of renal and hepatic dysfunction on pharmacokinetics of tenecteplase in humans has not been specifically investigated.

Indications

METALYSE[®] is indicated for the thrombolytic treatment of acute myocardial infarction (AMI) with persistent ST elevation or recent left Bundle Branch Block within 6 hours after the onset of acute myocardial infarction (AMI) symptoms. Treatment should be initiated as soon as possible after symptom onset.

Dosage and Administration

METALYSE[®] should be administered on the basis of body weight, with a maximum dose of 10,000 units (50 mg tenecteplase). The volume required to administer the correct dose can be calculated from the following scheme:

Patients' body weight	Tenecteplase	Tenecteplase	Corresponding volume of
category (kg)	(U)	(mg)	re-constituted solution (ml)
< 60	6,000	30	6
≥ 60 to < 70	7,000	35	7
≥ 70 to < 80	8,000	40	8
≥ 80 to < 90	9,000	45	9
≥ 90	10,000	50	10

The required dose should be administered as a <u>single</u> intravenous bolus over 5 to 10 seconds. A pre-existing intravenous line, which has been used for administration of 0.9% sodium chloride solution only, may be used for administration of METALYSE[®]. **If a line is used, this line should be flushed after METALYSE[®] injection for proper delivery.**

METALYSE[®] is incompatible with dextrose solution.

METALYSE[®] should not be mixed with other drugs, neither in the same infusion-vial nor the same venous line (not even with heparin).

Adjunctive therapy:

Antithrombotic adjunctive therapy is recommended according to the current international guidelines for the management of patients with ST-elevation myocardial infarction.

For coronary intervention please refer to section Special warnings and precautions.

Instructions for use/handling

METALYSE[®] should be reconstituted by adding the complete volume of water for injections from the prefilled syringe to the vial containing the powder for injection.

- 1. Ensure that the appropriate vial size is chosen according to the body weight of the patient. (see Dosage and Administration)
- 2. Check that the cap of the vial is still intact.
- 3. Remove the flip-off cap from the vial.
- 4. Remove the tip-cap from the syringe. Then immediately screw the pre-filled syringe on the vial adapter and penetrate the vial stopper in the middle with the spike of the vial adapter.
- 5. Add the water for injections into the vial by pushing the syringe plunger down slowly to avoid foaming.
- 6. Reconstitute by swirling gently.
- 7. The reconstituted preparation is a colourless to pale yellow, clear solution. Only clear solution without particles should be used.
- 8. Directly before the solution is administered, invert the vial with the syringe still attached, so that the syringe is below the vial.
- Transfer the appropriate volume of reconstituted solution of METALYSE[®] into the syringe, based on the patient's weight.
- 10. Disconnect the syringe from the vial adapter.
- 11. METALYSE[®] should be administered to the patient, intravenously over 5 to 10 seconds. It should not be administered into a line containing dextrose.
- 12. Any unused solution should be discarded.
- 13. Alternatively the reconstitution can be performed with the included needle.

Contraindications

Thrombolytic therapy is associated with a risk of bleeding. METALYSE[®] is contraindicated in the following situations:

- Significant bleeding disorder at present or within the past 6 months, known haemorrhagic diathesis
- Patients receiving effective oral anticoagulant treatment, e.g. warfarin sodium (INR > 1.3) (please see section Special warnings and precautions, subsection "Bleeding")
- Any history of central nervous system damage (i.e. neoplasm, aneurysm, intracranial or spinal surgery)
- Severe uncontrolled arterial hypertension
- Major surgery, biopsy of a parenchymal organ, or significant trauma within the past 2 months (this includes any trauma associated with the current AMI), recent trauma to the head or cranium
- Prolonged or traumatic cardiopulmonary resuscitation (> 2 minutes) within the past 2 weeks
- Severe hepatic dysfunction, including hepatic failure, cirrhosis, portal hypertension (oesophageal varices) and active hepatitis
- Active peptic ulceration
- Arterial aneurysm and known arterial/venous malformation
- Neoplasm with increased bleeding risk
- Acute pericarditis and/or subacute bacterial endocarditis
- Acute pancreatitis
- Hypersensitivity to the active substance tenecteplase, gentamicin (a trace residue from the manufacturing process) or to any of the excipients
- Haemorrhagic stroke or stroke of unknown origin at any time.
- Ischaemic stroke or transient ischaemic attack (TIA) in the preceding 6 months.

Special Warnings and Precautions

METALYSE[®] should be prescribed by physicians experienced in the use of thrombolytic treatment and with the facilities to monitor that use. This does not preclude the pre-hospital use of METALYSE[®]. As with other thrombolytics, it is recommended that when METALYSE[®] is administered standard resuscitation equipment and medication be available in all circumstances.

Coronary intervention

Transfer to a coronary intervention capable facility for adjunctive Percutaneous Coronary Intervention (PCI):

Patients receiving METALYSE[®] as primary coronary recanalization treatment should be transferred without delay to a coronary intervention capable facility for angiography and timely coronary intervention within 6-24 hours or earlier if medically indicated (please refer to section Pharmacological properties).

Primary Percutaneous Coronary Intervention (PCI)

If primary PCI is scheduled according to the current relevant treatment guidelines, METALYSE[®] as administered in the ASSENT-4 PCI study (please refer to section "Pharmacological Properties") should not be given.

Bleeding

The most common complication encountered during METALYSE[®] therapy is bleeding. The concomitant use of heparin anticoagulation may contribute to bleeding. As fibrin is lysed during METALYSE[®] therapy, bleeding from recent puncture sites may occur. Therefore, thrombolytic therapy requires careful attention to all possible bleeding sites (including those following catheter insertions, arterial and venous puncture, cutdown and needle puncture). The use of rigid catheters, intramuscular injections and non-essential handling of the patient should be avoided during treatment with METALYSE[®].

Should serious bleeding occur, in particular cerebral haemorrhage, concomitant heparin administration should be terminated immediately. Administration of protamine should be considered if heparin has been administered within 4 hours before the onset of bleeding. In the few patients who fail to respond to these conservative measures, judicious use of transfusion products may be indicated. Transfusion of cryoprecipitate, fresh frozen plasma, and platelets should be considered with clinical and laboratory reassessment after each administration. A target fibrinogen level of 1 g/l is desirable with cryoprecipitate infusion. Antifibrinolytic agents should also be considered.

The use of METALYSE[®] therapy has to be carefully evaluated in order to balance the potential risks of bleeding with expected benefits under the following conditions:

- Systolic blood pressure > 160 mm Hg
- Recent gastro-intestinal or genitourinary bleeding (within the past 10 days)
- Any known recent (within the past 2 days) intramuscular injection
- Advanced age, i.e. over 75 years
- Low body weight < 60 kg
- Cerebrovascular disease
- Patients receiving oral anticoagulants treatment: The use of METALYSE[®] may be considered when appropriate test(s) of anticoagulant activity for the product(s) concerned show no clinically relevant activity.

Arrhythmias

Coronary thrombolysis may result in arrhythmia associated with reperfusion.

Reperfusion arrhythmias may lead to cardiac arrest, can be life threatening and may require the use of conventional antiarrhythmic therapies.

Glyco-ProteinIIb/IIIa antagonists

The concomitant use of GPIIb/IIIa antagonists increases the risk of bleeding.

Thrombo-embolism

The use of METALYSE[®] can increase the risk of thrombo-embolic events in patients with left heart thrombus, e.g., mitral stenosis or atrial fibrillation.

Hypersensitivity

No antibody formation to the tenecteplase molecule has been observed after treatment. However, there is no experience with re-administration of METALYSE[®]. Therefore, re-administration of METALYSE[®] is not recommended.

Anaphylactoid reactions associated with the administration of METALYSE[®] are rare and can be caused by hypersensitivity to the active substance tenecteplase, gentamicin (a trace residue from the manufacturing process) or to any of the excipients. If an anaphylactoid reaction occurs, the injection should be discontinued and appropriate treatment should be initiated.

Fertility, Pregnancy and Lactation

Pregnancy:

There is no experience of use of METALYSE[®] in pregnant woman.

Nonclinical studies performed with tenecteplase have shown bleeding with secondary mortality of dams due to the known pharmacological activity of the drug and in a few cases abortion and resorption of the foetus occurred (effects only have been observed with repeated dose administration). Tenecteplase is not considered to be teratogenic.

The benefit of treatment must be evaluated against the potential risks in case of myocardial infarction

during pregnancy.

Lactation:

It is not known if tenecteplase is excreted into human milk.

Fertility:

Clinical data as well as nonclinical studies on fertility are not available for tenecteplase (METALYSE®).

Side Effects

As with other thrombolytic agents, haemorrhage is the most common undesirable effect associated with the use of METALYSE[®]. Haemorrhage at any site or body cavity can occur and may result in life-threatening situations, permanent disability or death.

The type of haemorrhage associated with thrombolytic therapy can be divided into two broad categories:

- superficial bleeding, normally from injection sites
- internal bleeding at any site or body cavity.

With intracranial haemorrhage neurological symptoms such as somnolence, aphasia, hemiparesis, convulsion may be associated.

The frequencies given below are based on corresponding occurrences in three clinical trials (ASSENT 2, ASSENT 3 and ASSENT4) involving 13,897 patients treated with METALYSE[®] for myocardial infarction.

Immune system disorders

≥1:10,000, <1:1,000:

anaphylactoid reaction including

- rash
- urticaria
- bronchospasm
- laryngeal oedema

Nervous system disorders

≥1:1,000, <1:100:

- intracranial haemorrhage such ascerebral haemorrhage
- cerebral haematoma
- haemorrhagic stroke
- haemorrhagic transformation stroke
- intracranial haematoma
- subarachnoid haemorrhage

Eye disorders

≥1:1,000, <1:100:

eye haemorrhage

Cardiac disorders

≥1:1,000, <1:100:

reperfusion arrhythmias such as

- asystole
- accelerated idioventricular arrhythmia
- arrhythmia
- extrasystoles
- atrial fibrillation
- atrioventricular block first degree atrioventricular block complete
- bradycardia
- tachycardia
- ventricular arrhythmia
- ventricular fibrillation

not known ≥1:10,000, <1:1,000:	 ventricular tachycardia occur in close temporal relationship to treatment with METALYSE[®]. Reperfusion arrhythmias may lead to cardiac arrest, can be life threatening and may require the use of conventional antiarrhythmic therapies. cardiac arrest pericardial haemorrhage
Vascular disorders ≥1:10:	haemorrhage

≥1:10:	haemorrh
≥1:10,000, <1:1,000:	embolism

Respiratory, thoracic and mediastinal disorders

≥1:100, <1:10:	epistaxis
≥1:10,000, <1:1,000:	pulmonary haemorrhage

Gastrointestinal disorders

≥1:100, <1:10:

gastrointestinal haemorrhage such as

- gastric haemorrhage
- gastric ulcer haemorrhage
- rectal haemorrhage
- haematemesis
- melaena

nausea, vomiting

mouth haemorrhage

not known ≥1:1,000, <1:100:

- retroperitoneal haemorrhage such as
- retroperitoneal haematoma

Skin and subcutaneous tissue disorders

≥1:100, <1:10:

Renal and urinary disorders

≥1:100, <1:10:

urogenital haemorrhage such as

haematuria

ecchymosis

haemorrhage urinary tract

General disorders and administration site conditions

≥1:100, <1:10: injection site haemorrhage, puncture site haemorrhage

Investigations

not known

≥1:10,000, <1:1,000: blood pressure decreased body temperature increased

Injury, poisoning and procedural complications

fat embolism (cholesterol crystal embolisation), which may lead to corresponding consequences in the organs concerned

Surgical and medical procedures

not known transfusion

Drug Interactions

No formal interaction studies with METALYSE[®] and medicinal products commonly administered in patients with AMI have been performed. However, the analysis of data from more than 12,000 patients treated during phase I, II and III did not reveal any clinically relevant interactions with medicinal products commonly used in patients with AMI and concomitantly used with METALYSE[®]. Medicinal products that affect coagulation or those that alter platelet function may increase the risk of bleeding prior to, during or after METALYSE[®] therapy.

Incompatibilities

METALYSE[®] is incompatible with dextrose solution.

No other medicinal product should be added to the injection solution or infusion line.

Overdosage

In the event of overdose there may be an increased risk of bleeding. In case of severe prolonged bleeding substitution therapy may be considered.

Storage Conditions

Store below 30° C. Keep the container in the outer carton in order to protect from light.

Reconstituted solution

Chemical and physical in-use stability has been demonstrated for 24 hours at 2 - 8° C and 8 hours at 30° C.

From a microbiological point of view, the product should be used immediately after reconstitution. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at 2-8° C or 8 hours at 30° C.

Please refer to packaging for information on shelf-life.

Manufacturer Manufactured by Boehringer Ingelheim Pharma GmbH & Co. KG, Biberach/Riss, Germany for Boehringer Ingelheim International GmbH Ingelheim am Rhein Germany

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Store in a safe place out of the reach of children!