Enbrel 25 mg powder and solvent for solution for injection

Enbrel 25 mg PS solution for injection in pre-filled syringe

Enbrel 50 mg PS solution for injection in pre-filled syringe or pre-filled MYCLIC pen

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SCHEDULING STATUS: S4

1. NAME OF THE MEDICINE

ENBREL® 25 mg powder and solvent for solution for injection

ENBREL® 25 mg PS solution for injection in pre-filled syringe

ENBREL® 50 mg PS solution for injection in pre-filled syringe or pre-filled MYCLIC pen

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Powder and solvent for solution for injection

Each single-use vial of ENBREL contains 25 mg etanercept.

Pre-filled solvent syringes contain 1 mL water for injection.

Contains sugar (mannitol and sucrose).

Solution for injection

Each pre-filled syringe of ENBREL PS contains 25 mg or 50 mg etanercept.

Each pre-filled pen of ENBREL PS contains 50 mg etanercept.

Contains sugar (sucrose).

Etanercept is a human tumour necrosis factor receptor (TNFR) p75 Fc fusion protein produced by

recombinant DNA technology in a Chinese hamster ovary (CHO) mammalian cell expression system.

Etanercept is a dimer of a chimeric protein genetically engineered by fusing the extracellular

ligand-binding domain of human tumour necrosis factor receptor-2 (TNFR2/p75) to the Fc domain of

human IgG1. The Fc component of etanercept contains the hinge, CH2 and CH3 regions, but not

the CH1 region of IgG1.

Excipients with known effect

Powder and solvent for solution for injection

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Each vial of ENBREL 25 mg contains 40 mg of mannitol and 10 mg of sucrose.

Solution for injection

Each 1 mL of ENBREL 25 mg PS contains 10 mg of sucrose.

Each 1 mL of ENBREL 50 mg PS contains 10 mg of sucrose.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

ENBREL 25 mg powder and solvent for solution for injection

Powder for solution for injection.

Before reconstitution the powder forms a white cake. After reconstitution the solution is a colourless

to slightly yellow or pale brown liquid, clear to slightly opalescent.

ENBREL 25 mg and 50 mg PS solution for injection in pre-filled syringe and pre-filled pen (MYCLIC)

Solution for injection.

Clear colourless, yellow or pale brown solution. The liquid may contain trace levels of translucent to

white amorphous particles.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Rheumatoid arthritis

ENBREL can be used alone or in combination with methotrexate to reduce the signs and symptoms

and inhibit the progression of structural damage as measured by X-ray of active rheumatoid arthritis

(RA) in adults when the response to one or more disease modifying antirheumatic medicines has

proven inadequate.

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ENBREL is also indicated for the treatment of severe, active and progressive rheumatoid arthritis in

adults not previously treated with methotrexate.

Juvenile idiopathic arthritis

Treatment of polyarticular-course juvenile idiopathic arthritis (JIA) in children and adolescents from

the age of 2 years when the response to one or more disease–modifying antirheumatic drugs

(DMARDs) has proved inadequate.

ENBREL is indicated for treatment of active polyarticular-course juvenile idiopathic arthritis and

extended oligoarthritis in children and adolescents from the age of 2 years who have had inadequate

response to, or who have proved intolerant of, methotrexate.

Treatment of psoriatic arthritis in adolescents from the age of 12 years who have had an inadequate

response to, or who have proved intolerant of, methotrexate.

Treatment of enthesitis-related arthritis in adolescents from the age of 12 years who have had an

inadequate response to, or who have proved intolerant of, conventional therapy.

Psoriatic arthritis

ENBREL is indicated for reducing signs and symptoms and inhibiting the progression of structural

damage of active arthritis in patients with psoriatic arthritis. ENBREL can be used in combination

with methotrexate in patients who do not respond adequately to methotrexate alone.

Axial spondylarthritis

Ankylosing spondylitis (AS)

ENBREL is indicated to reduce signs and symptoms in patients with ankylosing spondylitis.

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Non-radiographic axial spondyloarthritis

ENBREL is indicated for the treatment of adults with severe non-radiographic axial spondyloarthritis

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with objective signs of inflammation as indicated by elevated CRP and/or MRI evidence, who have

had an inadequate response to, or are intolerant to, conventional therapy.

Plaque psoriasis

ENBREL is indicated for the treatment of adult patients (18 years or older) with chronic moderate to

severe plaque psoriasis who are candidates for systemic therapy or phototherapy.

Paediatric plaque psoriasis

ENBREL is indicated for the treatment of chronic severe plaque psoriasis in children and adolescents

from the age of 6 years who are inadequately controlled by, or are intolerant to, other systemic

therapies or phototherapies.

4.2 Posology and method of administration

**Posology** 

Use in adults

Rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis and non-radiographic axial

spondylarthritis

The recommended dose of ENBREL for adult patients 18 years and older with rheumatoid arthritis

is 25 mg reconstituted in 1,0 mL of water for injection administered twice weekly (72 to 96 hours

apart) as a subcutaneous injection. 50 mg per week provides the optimal therapeutic response in

rheumatoid arthritis. ENBREL can be administered as follows:

once weekly (two 25 mg subcutaneous injections reconstituted in 1,0 mL of water for injection or

two ENBREL 25 mg PS pre-filled syringes) administered subcutaneously at approximately the

same time or

• one single 25 mg subcutaneous injection reconstituted in 1,0 mL of water for injection or one

ENBREL 25 mg PS pre-filled syringe administered twice weekly, 3 - 4 days apart (i.e. two 25

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mg single dose vials or two 25 mg PS pre-filled syringes per week) or

ENBREL 50 mg PS pre-filled syringe or pre-filled pen administered once weekly as a

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subcutaneous injection.

In psoriatic arthritis, ankylosing spondylitis and non-radiographic axial spondylarthritis, the

recommended dose is 50 mg per week (given as one single 25 mg injection reconstituted in 1,0 mL

of water for injection or as one ENBREL 25 mg PS pre-filled syringe given twice weekly, 3 – 4 days

apart). Doses other than 25 mg administered twice weekly have not been studied.

Methotrexate, glucocorticoids, salicylates, nonsteroidal anti-inflammatory drugs (NSAIDs), or

analgesics may be continued during treatment with ENBREL in adults.

Plaque psoriasis

In plaque psoriasis, the dose of ENBREL is 50 mg per week given as one single 25 mg injection

reconstituted in 1,0 mL water for injection or as one ENBREL 25 mg PS pre-filled syringe

administered twice weekly, 3 – 4 days apart or ENBREL 50 mg PS pre-filled syringe or pre-filled pen

administered once weekly. Higher responses may be achieved from initial treatment up to 12 weeks

with a dose of 50 mg given twice weekly.

Adult patients may be treated intermittently or continuously, based on physician judgement and

individual patient needs. Treatment should be discontinued in patients who show no response after

12 weeks. With intermittent use, treatment cycles subsequent to the initial cycle should use a dose

of 50 mg once weekly or 25 mg twice weekly.

Special populations

Use in elderly patients

No dosage adjustment is required.

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Use in patients with renal impairment

No dosage adjustment is required.

Use in patients with hepatic impairment

No dosage adjustment is required.

Paediatric population

The dosage of ENBREL is based on body weight for paediatric patients. Patients weighing less than

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62,5 kg should be accurately dosed on a mg/kg basis using ENBREL 25 mg/mL powder and solvent

for solution for injection (see below for dosing for specific indications). Patients weighing 62,5 kg or

more may be dosed using a fixed-dose pre-filled syringe or pre-filled pen.

Juvenile idiopathic arthritis (age 2 years and above)

Children (≥ 2 to < 18 years)

0,4 mg/kg (up to a maximum of 25 mg per dose) after reconstitution of 25 mg ENBREL in 1,0 mL of

water for injection or ENBREL 25 mg PS pre-filled syringe, given twice weekly as a subcutaneous

injection with an interval of 3 – 4 days between doses or 0,8 mg/kg (up to a maximum of 50 mg per

dose) given once weekly.

Glucocorticoids, nonsteroidal anti-inflammatory drugs (NSAIDs), or analgesics may be continued

during treatment with ENBREL in children. ENBREL has not been studied in children < 2 years of

age.

Paediatric plaque psoriasis (age 6 years and above)

Children (≥ 6 to < 18 years)

0,8 mg/kg (up to a maximum of 50 mg per dose) once weekly for up to 24 weeks. Treatment should

be discontinued in patients who show no response after 12 weeks.

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Enbrel 50 mg PS solution for injection in pre-filled syringe or pre-filled MYCLIC pen

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If re-treatment with ENBREL is indicated, the above guidance on treatment duration should be followed. The dose should be 0,8 mg/kg (up to a maximum of 50 mg per dose) once weekly.

### Method of administration

For subcutaneous injection.

Preparation of ENBREL

ENBREL is intended for use under the guidance and supervision of a physician. Patients may self-inject only if their physician determines that it is appropriate and with medical follow-up, as necessary, after proper training in injection technique.

Administration

Administer ENBREL as subcutaneous injections in the thigh, abdomen, or upper arm. Alternate injection sites. New injections should be given at least 3 cm from a previous site. Do NOT inject into areas where the skin is tender, bruised, red, or hard.

### 4.3 Contraindications

- ENBREL should not be administered to patients with known hypersensitivity to etanercept or to any of the excipients of ENBREL listed in section 6.1.
- ENBREL should not be administered to patients with sepsis or risk of sepsis.
- Treatment with ENBREL should not be initiated in patients with serious active infections, including chronic or localised infections.

## 4.4 Special warnings and precautions for use

Infections

SERIOUS INFECTIONS INCLUDING SEPSIS AND TUBERCULOSIS (TB) HAVE BEEN REPORTED WITH THE USE OF ENBREL (SEE SECTION 4.8). SOME OF THESE INFECTIONS HAVE BEEN FATAL. THESE INFECTIONS WERE DUE TO BACTERIA, MYCOBACTERIA,

Enbrel 50 mg PS solution for injection in pre-filled syringe or pre-filled MYCLIC pen

PREDISPOSE PATIENTS TO INFECTIONS (SEE SECTIONS 4.3 AND 4.8).

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FUNGI, VIRUSES, AND PARASITES (INCLUDING PROTOZOA). OPPORTUNISTIC INFECTIONS HAVE ALSO BEEN REPORTED (INCLUDING LISTERIOSIS AND LEGIONELLOSIS). PATIENTS WHO DEVELOP A NEW INFECTION WHILE UNDERGOING TREATMENT WITH ENBREL SHOULD BE MONITORED CLOSELY. ADMINISTRATION OF ENBREL SHOULD BE DISCONTINUED IF A PATIENT DEVELOPS A SERIOUS INFECTION. CAUTION SHOULD BE EXERCISED WHEN CONSIDERING THE USE OF ENBREL IN PATIENTS WITH A HISTORY OF RECURRING OR CHRONIC INFECTIONS OR WITH UNDERLYING CONDITIONS WHICH MAY

Patients should be evaluated for infections, including active or latent tuberculosis, hepatitis B and C before, during and after treatment with ENBREL (see below). ENBREL treatment should be discontinued if a patient develops life-threatening infection. Caution should be exercised in patients at high risk of developing serious infection, including patients undergoing major surgeries.

Opportunistic infections, including invasive fungal infections, have been reported in patients receiving ENBREL. In some cases, fungal and other opportunistic infections are not recognised, and this has resulted in delays in appropriate treatment, sometimes resulting in death. In many of the reports, patients have also received concomitant medicines including immunosuppressants. In evaluating patients for infections, health care providers should consider the patient's risk for relevant opportunistic infections (e.g. exposure to endemic mycoses).

TREATMENT WITH ENBREL SHOULD NOT BE INITIATED IN PATIENTS WITH ACTIVE INFECTIONS INCLUDING CHRONIC OR LOCALISED INFECTIONS. HEALTH CARE PROVIDERS SHOULD EXERCISE CAUTION WHEN CONSIDERING THE USE OF ENBREL IN PATIENTS WITH A HISTORY OF RECURRING INFECTIONS OR WITH UNDERLYING CONDITIONS WHICH MAY PREDISPOSE PATIENTS TO INFECTIONS, SUCH AS ADVANCED OR POORLY CONTROLLED DIABETES.

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Tuberculosis (TB)

Tuberculosis (including disseminated or extrapulmonary presentation) has been observed in patients

receiving TNF-blocking medicines, including ENBREL. Tuberculosis may be due to reactivation of

latent TB infection or to new infection.

BEFORE INITIATION OF THERAPY WITH ENBREL, ANY PATIENT AT INCREASED RISK FOR

TB SHOULD BE EVALUATED FOR ACTIVE OR LATENT INFECTION. PROPHYLAXIS OF

LATENT TB INFECTION SHOULD BE INITIATED PRIOR TO THERAPY WITH ENBREL. SOME

PATIENTS WHO TESTED NEGATIVE FOR LATENT TUBERCULOSIS PRIOR TO RECEIVING

ENBREL HAVE DEVELOPED ACTIVE TUBERCULOSIS. HEALTH CARE PROVIDERS SHOULD

MONITOR PATIENTS RECEIVING ENBREL FOR SIGNS AND SYMPTOMS OF ACTIVE

TUBERCULOSIS, INCLUDING PATIENTS WHO TESTED NEGATIVE FOR LATENT

TUBERCULOSIS INFECTION. APPLICABLE LOCAL GUIDELINES SHOULD BE CONSULTED.

PATIENTS WITH RA APPEAR TO HAVE AN INCREASED RATE OF TB INFECTION.

Hepatitis B (HBV) reactivation

REACTIVATION OF HEPATITIS B IN PATIENTS WHO WERE PREVIOUSLY INFECTED WITH

THE HEPATITIS B VIRUS (HBV) AND HAD RECEIVED CONCOMITANT ANTI-TNF MEDICINES

INCLUDING ENBREL HAS BEEN REPORTED. THE MAJORITY OF THESE REPORTS HAVE

OCCURRED IN PATIENTS CONCOMITANTLY RECEIVING OTHER MEDICINES THAT

SUPPRESS THE IMMUNE SYSTEM, WHICH MAY ALSO CONTRIBUTE TO HEPATITIS B

REACTIVATION. PATIENTS AT RISK FOR HBV INFECTION SHOULD BE EVALUATED FOR

PRIOR EVIDENCE OF HBV INFECTION BEFORE INITIATING ANTI-TNF THERAPY. CAUTION

SHOULD BE EXERCISED WHEN ADMINISTERING ENBREL FOR PATIENTS PREVIOUSLY

INFECTED WITH HBV. THESE PATIENTS SHOULD BE MONITORED FOR SIGNS AND

SYMPTOMS OF ACTIVE HBV INFECTION.

Worsening of hepatitis C

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THERE HAVE BEEN REPORTS OF WORSENING OF HEPATITIS C IN PATIENTS RECEIVING

ENBREL.

Concurrent treatment with anakinra

CONCURRENT ADMINISTRATION OF ENBREL AND ANAKINRA HAS BEEN ASSOCIATED

WITH AN INCREASED RISK OF SERIOUS INFECTIONS AND NEUTROPENIA. THE

COMBINATION HAS NOT DEMONSTRATED INCREASED CLINICAL BENEFIT; SUCH USE IS

NOT RECOMMENDED (SEE SECTION 4.5).

Concurrent treatment with abatacept

IN CLINICAL STUDIES, CONCURRENT ADMINISTRATION OF ABATACEPT AND ENBREL

THERAPY RESULTED IN INCREASED INCIDENCES OF SERIOUS ADVERSE EVENTS. THIS

COMBINATION HAS NOT DEMONSTRATED INCREASED CLINICAL BENEFIT; SUCH USE IS

**NOT RECOMMENDED (SEE SECTION 4.5).** 

Wegener's granulomatosis

IN A PLACEBO-CONTROLLED STUDY OF 180 PATIENTS WITH WEGENER'S

GRANULOMATOSIS, THE ADDITION OF ENBREL TO STANDARD TREATMENT (INCLUDING

CYCLOPHOSPHAMIDE AND HIGH-DOSE STEROIDS) WAS NO MORE EFFICACIOUS THAN

STANDARD TREATMENT ALONE. THE GROUP OF PATIENTS WHO RECEIVED ENBREL

EXPERIENCED MORE NON-CUTANEOUS MALIGNANCIES OF VARIOUS TYPES THAN THE

PATIENT GROUP RECEIVING STANDARD TREATMENT ALONE. THE USE OF ENBREL FOR

TREATMENT OF WEGENER'S GRANULOMATOSIS IS NOT RECOMMENDED.

Alcoholic hepatitis

In a study of 48 hospitalised patients treated with ENBREL or placebo for moderate to severe

alcoholic hepatitis [mean Model of End-stage Liver Disease (MELD) score = 25], ENBREL was not

efficacious and the mortality rate in patients treated with ENBREL was significantly higher after

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6 months. Infections were also higher in the group treated with ENBREL The use of ENBREL in

patients for the treatment of alcoholic hepatitis is not recommended. Health care providers should

use caution when using ENBREL in patients who also have moderate to severe alcoholic hepatitis.

Allergic reactions

Parenteral administration of any biologic medicine should be attended by appropriate precautions in

case an allergic or untoward reaction occurs. Allergic reactions associated with ENBREL

administration have been reported. If any serious allergic or anaphylactic reaction occurs, ENBREL

therapy should be discontinued immediately and appropriate therapy initiated.

ENBREL 25 mg powder and solvent for solution for injection

The rubber closure of the solvent syringe contains latex (dry natural rubber). Patients or caregivers

should contact their health care provider before using ENBREL if the rubber closure of the solvent

syringe will be handled by or if ENBREL will be given to someone with a known or possible

hypersensitivity (allergy) to latex.

ENBREL 25 mg and 50 mg PS solution for injection in pre-filled syringe or pre-filled pen

The needle cover of the pre-filled syringe and the needle cap of the pre-filled pen contain latex (dry

natural rubber). Patients or caregivers should contact their health care provider before using

ENBREL PS if the needle cover will be handled by or if ENBREL PS will be given to someone with

a known or possible hypersensitivity (allergy) to latex.

Immunosuppression

Anti-TNF therapies including ENBREL may affect host defences against infections and malignancies

since TNF mediates inflammation and modulates cellular immune responses.

Malignancies and lymphoproliferative disorders

Solid and haematopoietic malignancies (excluding skin cancers)

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Reports of malignancies affecting various sites have been received in the post-marketing period. In

the controlled portions of clinical trials of TNF-antagonists, more cases of lymphoma have been

observed among patients receiving a TNF-antagonist compared with control patients. However, the

occurrence was rare, and the follow-up period for placebo patients was shorter than for patients

receiving TNF-antagonist therapy. Cases of leukaemia have been reported in patients treated with

TNF-antagonists. There is an increased background risk for lymphoma and leukaemia in rheumatoid

arthritis patients with long-standing, highly active, inflammatory disease, which complicates the risk

estimation. Post hoc analyses of rheumatoid arthritis clinical trials with ENBREL have neither

confirmed nor excluded an increased risk for malignancies.

Malignancies (particularly Hodgkin's and non-Hodgkin's lymphomas), some fatal, have been

reported among children and adolescents who received treatment with TNF-antagonists, including

ENBREL. Most of the patients were receiving concomitant immunosuppressants.

Based on current knowledge, a possible risk for the development of lymphomas or other

hematopoietic or solid malignancies in patients treated with a TNF-antagonist cannot be excluded.

Skin cancers

Melanoma and non-melanoma skin cancer (NMSC) have been reported in patients treated with TNF-

antagonists including ENBREL. Post-marketing cases of Merkel cell carcinoma have been reported

very infrequently in patients treated with ENBREL. Periodic skin examination is recommended for all

patients who are at increased risk for skin cancer.

Combining the results of controlled portions of clinical trials of ENBREL, more cases of NMSC were

observed in patients receiving ENBREL compared with control patients, particularly in patients with

psoriasis. Periodic skin examination is recommended for all patients who are at increased risk for

NMSC.

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## Haematologic reactions

Cases of pancytopenia and cases of aplastic anaemia, some with fatal outcome, have been reported in patients treated with ENBREL. Caution should be exercised in patients being treated with ENBREL who have a previous history of blood dyscrasias. All patients should be advised that if they develop signs and symptoms suggestive of blood dyscrasias or infections (e.g. persistent fever, sore throat, bruising, bleeding, paleness) whilst on ENBREL, they should seek immediate medical advice. Such patients should be evaluated urgently, including full blood count; if blood dyscrasias are confirmed, ENBREL should be discontinued.

## Auto-antibody formation

Treatment with ENBREL may be associated with the formation of autoimmune antibodies (see section 4.8). The impact of long-term treatment with ENBREL on the development of autoimmune disease is unknown.

### **Immunogenicity**

Antibodies to ENBREL, all non-neutralising, were detected at least once in sera of 16 % of rheumatoid arthritis patients. No apparent correlation of antibody development to clinical response or adverse events was seen. The long-term immunogenicity of ENBREL is unknown.

#### Vaccinations

Pneumococcal vaccine response information is not available for patients with rheumatoid arthritis. In a double-blind placebo-controlled randomised clinical study in patients with psoriatic arthritis, 184 patients received a multivalent polysaccharide vaccine at week 4. In this study most psoriatic arthritis patients receiving ENBREL were able to mount effective B-cell immune response to pneumococcal polysaccharide vaccine, but titers in aggregate were moderately lower and fewer patients had two-fold rises in titers compared to patients not receiving ENBREL. The clinical significance of this is unknown. Live vaccines should not be given concurrently with ENBREL. If possible, bring paediatric patients up to date with immunisations according to current local guidelines before beginning

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ENBREL therapy.

Neurological disorders

Although no clinical trials have been performed evaluating ENBREL therapy in patients with multiple

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sclerosis, clinical trials of other TNF antagonists in patients with multiple sclerosis have shown

increases in disease activity. There have been reports of CNS demyelinating disorders in patients

treated with ENBREL (see section 4.8). Additionally, there have been rare reports of peripheral

demyelinating polyneuropathies (including Guillain-Barré syndrome). ENBREL is not recommended

for patients with pre-existing or recent onset of CNS demyelinating disease, or to those who are

considered to have an increased risk of developing demyelinating disease.

Congestive heart failure (Congestive cardiac failure)

There have been post-marketing reports of worsening of congestive heart failure (CHF), with and

without identifiable precipitating factors, in patients taking ENBREL. There have also been rare (<

0,1 %) reports of new onset CHF, including CHF in patients without known pre-existing

cardiovascular disease. Some of these patients have been under 50 years of age (see section 4.8).

Health care providers should use caution when using ENBREL in patients who also have CHF.

Hypoglycaemia in patients treated for diabetes

There have been reports of hypoglycaemia following initiation of ENBREL in patients receiving

medicine for diabetes, necessitating a reduction in anti-diabetic medicine in some of these patients.

Special populations

Use in elderly patients

The impact of advanced age was studied in the population pharmacokinetic analysis of ENBREL

serum concentrations. Clearance and volume estimates in patients aged 65 to 87 years were similar

to estimates in patients less than 65 years of age.

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Greater sensitivity of some older individuals cannot be ruled out.

No specific dose adjustments of ENBREL are recommended based on patient age.

4.5 Interaction with other medicines and other forms of interaction

Concurrent treatment with anakinra

Patients treated with ENBREL and anakinra were observed to have a higher rate of serious infection when compared with patients who were treated with ENBREL alone (historical data). In addition, in a double-blind placebo-controlled trial in patients receiving background methotrexate, patients treated with ENBREL and anakinra were observed to have a higher rate of serious infections and

neutropenia than patients treated with ENBREL alone (see section 4.4.)

Concurrent treatment with abatacept

In clinical studies, concurrent administration of abatacept and ENBREL therapy resulted in increased

incidences of serious adverse events. This combination has not demonstrated increased clinical

benefit; such use is not recommended (see section 4.4).

Concurrent treatment with sulfasalazine

In a clinical study of patients who were receiving established doses of sulfasalazine, to which

ENBREL was added, patients in the combination group experienced a statistically significant

decrease in mean white blood cell count in comparison to groups treated with ENBREL or

sulfasalazine alone. The clinical significance of this interaction is unknown.

Non-interactions

Methotrexate has no effect on the pharmacokinetics of ENBREL and may therefore be administered

in combination with methotrexate. Interactions between ENBREL and other medicines have not been

evaluated in formal studies. No confirmed medicine interactions have been reported with the use of

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ENBREL.

No interactions have been observed when ENBREL was administered with glucocorticoids,

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salicylates (except sulfasalazine), nonsteroidal anti-inflammatory drugs (NSAIDs), analgesics or

methotrexate in clinical trials with adult rheumatoid arthritis patients.

No clinically significant pharmacokinetic drug-drug interactions were observed in studies with digoxin

and warfarin.

4.6 Fertility, pregnancy and lactation

Pregnancy

The safe use of ENBREL during pregnancy and lactation has not been established.

Use ENBREL during pregnancy only if clearly needed.

ENBREL crosses the placenta and has been detected in the serum of infants born to female patients

treated with ENBREL during pregnancy. The clinical impact of this is unknown however, infants may

be at increased risk of infection. Administration of live vaccines to infants for 16 weeks after the

mother's last dose of ENBREL is generally not recommended.

**Breastfeeding** 

The safe use of ENBREL during lactation has not been established. ENBREL has been reported to be

excreted in human milk following subcutaneous administration. Because immunoglobulins and many

medicines can be excreted in human milk, a decision should be made whether to discontinue nursing

or to discontinue ENBREL while nursing.

**Fertility** 

No fertility or long-term perinatal/ postnatal studies are available.

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## 4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed.

### 4.8 Undesirable effects

Summary of the safety profile

Adult patients

The proportion of patients who discontinued treatment due to adverse reactions in controlled clinical studies in patients with rheumatoid arthritis was the same in both the ENBREL and placebo treatment groups.

Based on the results of clinical studies in rheumatoid arthritis, normally no special laboratory evaluations are necessary in addition to careful medical management and supervision of patients.

## Tabulated summary of adverse reactions

The following list of adverse reactions is based on experience from clinical trials in adults. Within the system organ classes, adverse reactions are listed under headings of frequency (number of patients expected to experience the reaction), using the following categories: very common ( $\geq$  1/10); common ( $\geq$  1/100 to < 1/10); uncommon ( $\geq$  1/1 000 to < 1/100); rare ( $\geq$  1/10 000 to < 1/1 000); very rare (< 1/10 000); not known (cannot be estimated from the available data).

System organ	Frequency	Adverse reaction
class		
Infections and	Very common	Infection (including upper respiratory
infestations		tract infections, bronchitis, cystitis, skin infections)
	Uncommon	Serious infections (including pneumonia, cellulitis, bacterial

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		arthritis, sepsis and parasitic
		infection)
	Rare	Tuberculosis, opportunistic infection
		(including invasive fungal,_bacterial,
		atypical mycobacterial, viral
		infections, and Legionella) (see
		section 4.4)
Neoplasms <del>,</del>	Uncommon	Non-melanoma skin cancers (see
benign,		section 4.4)
malignant and		
unspecified	Rare	Malignant melanoma (see section
(including cysts		4.4)
and polyps)		
Blood and	Uncommon	Thrombocytopenia, anaemia,
lymphatic		leukopenia, neutropenia
system disorders	Rare	Pancytopenia (see section 4.4)
Immune system	Common	Allergic reactions (see Skin and
disorders		subcutaneous tissue disorders,
		below), auto-antibody formation
	Uncommon	Vasculitis (including ANCA positive
		vasculitis)
	Rare	Serious allergic/ anaphylactic
		reactions (including angioedema,
		bronchospasm), sarcoidosis

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Nervous system	Rare	CNS demyelinating events, including
disorders		multiple sclerosis and localised
		demyelinating conditions such as
		optic neuritis and transverse myelitis
		(see section 4.4), seizure
Eye disorders	Uncommon	Uveitis, scleritis
Cardiac	Uncommon	Worsening of congestive cardiac
disorders		failure
	Rare	New onset congestive cardiac failure
Respiratory,	Rare	Interstitial lung disease (including
thoracic and		pulmonary fibrosis and pneumonitis)
mediastinal		
disorders		
Hepato-biliary	Uncommon	Elevated liver enzymes
disorders	Rare	Autoimmune hepatitis
	Traic	Autominune nepatitis
Skin and	Common	Pruritus, rash
subcutaneous	Uncommon	Angioedema, psoriasis (new onset
tissue disorders	Chochimon	or exacerbation including all sub-
		types), urticaria
	Rare	Cutaneous vasculitis (including
	Naie	hypersensitivity vasculitis
Museuleskalatal	Doro	7
Musculoskeletal,	Rare	Lupus-like syndrome
and connective		
tissue disorders		

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General	Very common	Injection site reactions (including
disorders and		bleeding, bruising, erythema, itching,
administration		pain and swelling)
site conditions	Common	Pyrexia

# Post-marketing side effects

System organ class	Side effect
Infections and infestations	Hepatitis B reactivation,
	Listeria
Neoplasms benign, malignant	Lymphoma,
and unspecified (including cysts	leukaemia,
and polyps)	Merkel cell carcinoma (see
	section 4.4)
Blood and lymphatic system	Aplastic anaemia
disorders	(see section 4.4),
	histiocytosis haematophagic
	(macrophage activation
	syndrome)
Nervous system disorders	Headache, peripheral
	demyelinating events, including
	Guillain-Barré syndrome,
	chronic inflammatory
	demyelinating polyneuropathy,
	demyelinating polyneuropathy
	and multifocal motor
	neuropathy (see section 4.4),
Gastrointestinal disorders	Inflammatory bowel disease

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Skin and subcutaneous tissue	Psoriasiform rash,
disorders	Stevens-Johnson syndrome,
	erythema multiforme,
	toxic epidermal necrolysis
	2
Musculoskeletal and connective	Subacute cutaneous lupus
Musculoskeletal and connective tissue disorders	Subacute cutaneous lupus erythematosus, cutaneous
	erythematosus, cutaneous

Spontaneous reports

Malignancies affecting various sites.

Description of selected adverse reactions

Injection site reactions

Patients in controlled clinical studies treated with ENBREL had a significantly higher incidence of injection site reactions (erythema and/or itching, pain, or swelling) compared with placebo-treated patients. The frequency of injection site reactions was greatest in the first month and subsequently decreased in frequency. In clinical trials, these reactions were generally transient with a mean duration of 4 days. Some patients who experienced injection site reactions also experienced reactions at previous injection sites.

Injection site bleeding and bruising have also been observed in conjunction with ENBREL therapy.

In controlled trials in patients with plaque psoriasis, 14 % of patients treated with ENBREL developed injection site reactions during the first three months of treatment.

Infections

Serious and fatal infections have been reported; reported pathogens include bacteria, mycobacteria

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(including tuberculosis), viruses, and fungi. Opportunistic infections have also been reported

including invasive fungal, parasitic (including protozoal), viral (including herpes zoster) bacterial

(including Listeria and Legionella), and atypical mycobacterial infections (see section 4.4). The most

commonly reported invasive fungal infections included Candida, Pneumocystis, Aspergillus, and

Histoplasma.

In controlled trials in patients with rheumatoid arthritis, the rates of reported serious (fatal, life

threatening, or required hospitalisation or intravenous antibiotics) and non-serious infections were

similar for ENBREL and placebo when adjusted for duration of exposure. Upper respiratory infections

were the most reported non-serious infections.

Data from a clinical trial in patients with established sepsis suggest that ENBREL treatment may

increase mortality in these patients.

In placebo-controlled psoriatic arthritis and plaque psoriasis trials, there were no differences in rates

of infection among patients treated with ENBREL and those treated with placebo. In psoriatic arthritis

trials, no serious infections occurred in patients treated with ENBREL. In the double-blind and open-

label plaque psoriasis trials of up to 15 months, serious infections experienced by ENBREL-treated

patients included cellulitis, gastroenteritis, pneumonia, cholecystitis, osteomyelitis and abscess.

Malignancies and lymphoproliferative disorders

Reports of malignancies affecting various sites have been received in the post-marketing period.

Twenty-three malignancies were reported in plaque psoriasis patients treated with ENBREL in

double-blind and open-label studies of up to 15 months involving 1 261 ENBREL-treated patients.

There have been reports of malignancies in a clinical trial of patients being treated for Wegener's

granulomatosis (see section 4.4).

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Interstitial lung disease

In controlled clinical trials of ENBREL across all indications, the frequency (incidence proportion) of

interstitial lung disease in patients receiving ENBREL without concomitant methotrexate was 0,06 %

(frequency rare). In the controlled clinical trials that allowed concomitant treatment with ENBREL and

methotrexate, the frequency (incidence proportion) of interstitial lung disease was 0,47 % (frequency

uncommon). There have been post-marketing reports of interstitial lung disease (including

pneumonitis and pulmonary fibrosis), some of which had fatal outcomes.

Elevated liver enzymes

In the double-blind periods of controlled clinical trials of ENBREL across all indications, the frequency

(incidence proportion) of adverse events of elevated liver enzymes in patients receiving ENBREL

without concomitant methotrexate was 0,54 % (frequency uncommon). In the double-blind periods

of controlled clinical trials that allowed concomitant treatment with ENBREL and methotrexate, the

frequency (incidence proportion) of adverse events of elevated liver enzymes was 4,18 % (frequency

common).

Autoimmune hepatitis

In controlled clinical trials of ENBREL across all indications, the frequency (incidence proportion) of

autoimmune hepatitis in patients receiving ENBREL without concomitant methotrexate was 0,02 %

(frequency rare). In the controlled clinical trials that allowed concomitant treatment with ENBREL and

methotrexate, the frequency (incidence proportion) of autoimmune hepatitis was 0,24 % (frequency

uncommon).

Auto-antibodies

In controlled trials, the percentage of patients who developed new positive antinuclear antibodies

(ANA) (≥ 1:40), new positive anti-double-stranded DNA antibodies, and new anticardiolipin

antibodies was increased compared to placebo-treated patients. The impact of long-term treatment

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with ENBREL on the development of autoimmune diseases is unknown.

Reports have described patients, including those with rheumatoid factor positive RA, who have developed additional auto-antibodies in conjunction with a lupus-like syndrome or rashes compatible with subacute cutaneous lupus or discoid lupus by clinical presentation and biopsy (see Tabulated

summary of adverse reactions above).

Paediatric population

In general, the adverse events in paediatric patients were similar in frequency and type to those seen

in adult patients.

Side effects in paediatric patients with juvenile idiopathic arthritis

Infection was the most common adverse event reported in paediatric patients taking ENBREL and

occurred at an incidence similar to placebo. The types of infection reported in juvenile idiopathic

arthritis patients were generally mild and consistent with those commonly seen in outpatient

paediatric populations.

In clinical trials, two cases of varicella infection with signs and symptoms suggestive of aseptic

meningitis have been reported among juvenile idiopathic arthritis patients treated with ENBREL.

There were four reports of macrophage activation syndrome in juvenile idiopathic arthritis clinical

trials.

Side effects in paediatric patients with plaque psoriasis

In a 48-week study of 211 children aged 4 to 17 years with paediatric plaque psoriasis, the adverse

events reported were similar to those seen in previous studies in adults with plaque psoriasis.

Reporting of suspected adverse reactions

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Reporting suspected adverse reactions after authorisation of the medicine is important. It allows

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continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to

report any suspected adverse reactions to SAHPRA via the "6.04 Adverse Drug Reactions

**Reporting Form**", found online under SAHPRA's publications:

https://www.sahpra.org.za/Publications/Index/8

4.9 Overdose

The maximum tolerated dose of ENBREL has not been established in humans. Single intravenous

doses up to 60 mg/m<sup>2</sup> have been administered to healthy volunteers in an endotoxaemia study

without evidence of dose-limiting toxicities. The highest dose level evaluated in rheumatoid arthritis

patients has been an intravenous loading dose of 32 mg/m<sup>2</sup> followed by subcutaneous doses of

16 mg/m<sup>2</sup> (~25 mg) administered twice weekly.

ENBREL did not induce lethality or notable signs of toxicity in mice or rats following a single

subcutaneous dose of 2 000 mg/kg or a single intravenous dose of 1 000 mg/kg. ENBREL did not

elicit dose-limiting or target organ toxicity in cynomolgus monkeys following twice weekly

subcutaneous administration for 4 or 26 consecutive weeks at a dose (15 mg/kg) that resulted in

area under the curve (AUC) based serum medicine concentrations that were over 27-fold higher than

that obtained in humans at the recommended human dose of 25 mg.

No dose-limiting toxicities were observed during clinical trials of rheumatoid arthritis patients.

In the case of accidental overdosage, treatment should be supportive and symptomatic.

There is no known antidote to ENBREL.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

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Category and class: A 3.1 Anti-rheumatics (anti-inflammatory agents)

Mechanism of action

Etanercept is a dimeric soluble form of the p75 TNF (tumour necrosis factor) receptor that can bind

to two TNF molecules. Etanercept inhibits binding of both TNF (TNF<sub>α</sub>) and lymphotoxin alpha [LT<sub>α</sub>]

(TNF<sub>β</sub>) to cell surface TNF receptors, thus rendering TNF biologically inactive and preventing

TNF-mediated cellular responses.

TNF is a dominant cytokine in the inflammatory process of adult rheumatoid arthritis (RA) patients.

The efficacy of etanercept was assessed in a randomised, double-blind, placebo-controlled study.

The study evaluated 234 adult patients with active RA who had failed therapy with at least one, but

no more than four, disease-modifying anti-rheumatic drugs (DMARDs). After discontinuation of

etanercept, symptoms of arthritis generally returned within a month. Re-introduction of treatment with

etanercept after discontinuation of up to 24 months resulted in the same magnitude of responses as

patients who received etanercept without interruption of therapy based on results of open-label

studies.

Continued durable responses have been seen for up to 10 years in open-label extension treatment

trials when patients received etanercept without interruption.

TNF and  $LT_{\alpha}$  are expressed in patients with juvenile idiopathic arthritis.

Elevated levels of TNF are also found in the synovium and psoriatic plaques of patients with psoriatic

arthritis and in serum and synovial tissue of patients with ankylosing spondylitis.

In plaque psoriasis, infiltration by inflammatory cells including T-cells leads to increased TNF levels

in psoriatic lesions, compared with levels in uninvolved skin.

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Two distinct receptors for TNF (TNFRs), a 55 kilodalton protein (p55) and a 75 kilodalton protein

(p75) exist naturally as monomeric molecules on cell surfaces and in soluble forms. The biological

activity of TNF is dependent upon binding to either cell surface receptor.

Etanercept may also modulate biologic responses controlled by additional molecules (e.g. cytokines,

adhesion molecules, or proteinases) that are induced or regulated by TNF.

Etanercept inhibits the activity of TNF in vitro and has been shown to affect several animal models

of inflammation, including collagen-induced arthritis in mice.

5.2 Pharmacokinetic properties

Absorption

Etanercept is slowly absorbed from the site of SC injection, reaching maximum concentration

approximately 48 hours after a single dose. The absolute bioavailability is 76 %. With twice weekly

doses, it is anticipated that steady-state concentrations are approximately twice as high as those

observed after single doses.

Distribution

After a single SC dose of 25 mg etanercept, the average maximum serum concentration observed

in healthy volunteers was 1,65  $\pm$  0,66  $\mu$ g/mL, and area under the curve results were 235  $\pm$  96,6

μg.hr/mL. Dose proportionality has not been formally evaluated, but there is no apparent saturation

of clearance across the dosing range.

A biexponential curve is required to describe the concentration time curve of etanercept. The volume

of distribution at steady-state after subcutaneous administration is  $13.9 \pm 9.4$  L.

After continued dosing of RA patients (n = 25) with etanercept for 6 months with 25 mg twice weekly,

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the median observed level was 3,0 µg/mL (range 1,7 to 5,6 µg/mL). Based on the available data,

individual patients may undergo a two- to five-fold increase in serum levels with repeated dosing.

Elimination

Etanercept is cleared slowly from the body. The half-life is approximately 80 hours. Clearance is

approximately 175 ± 116 mL/hr in patients with rheumatoid arthritis and 131 ± 81 mL/hr in healthy

volunteers.

Radioactivity is eliminated in urine after administration of radiolabelled etanercept to patients and

volunteers.

Concentration-effect relationship

Steady-state serum concentrations of 1 to 2 mg/L of etanercept are associated with optimal effect

and are obtained with doses of 25 mg twice weekly. In an open-label, single-dose, two-treatment,

crossover study in 28 healthy volunteers, etanercept, administered as a single 50 mg/mL injection,

was found to be bioequivalent to two simultaneous injections of 25 mg/mL.

Special populations

Renal impairment or hepatic impairment

Although there is elimination of radioactivity in urine after administration of radiolabelled etanercept

to patients and volunteers, increased etanercept concentrations were not observed in patients with

acute renal or hepatic failure. The presence of renal and hepatic impairment should not require a

change in dosage.

Gender

There is no apparent pharmacokinetic difference between men and women.

Use in elderly patients

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No specific dosage adjustments of etanercept are recommended based on patient age.

### 6. PHARMACEUTICAL PARTICULARS

# 6.1 List of excipients

ENBREL 25 mg powder and solvent for solution for injection

Mannitol

Sucrose

Trometamol

Pre-filled solvent syringe

Water for injection

ENBREL 25 mg PS solution for injection in pre-filled syringe and ENBREL 50 mg PS solution for injection in pre-filled syringe or pre-filled pen

Sucrose

Sodium chloride

L-arginine hydrochloride

## 6.2 Incompatibilities

In the absence of compatibility studies, ENBREL must not be mixed with other medicines.

## 6.3 Shelf life

ENBREL 25 mg powder and solvent for solution for injection

36 months

Reconstituted solution

Reconstituted solutions of ENBREL should be administered as soon as possible after reconstitution.

If not administered immediately after reconstitution, ENBREL may be stored in the vial at 2 - 8 °C

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for up to 6 hours.

ENBREL 25 mg PS solution for injection in pre-filled syringe

36 months

ENBREL 50 mg PS solution for injection in pre-filled syringe

36 months

ENBREL 50 mg PS solution for injection in pre-filled MYCLIC pen

36 months

# 6.4 Special precautions for storage

ENBREL 25 mg powder and solvent for solution for injection

The dose tray containing ENBREL (sterile powder) must be stored in a refrigerator.

DO NOT FREEZE.

ENBREL 25 mg and 50 mg PS solution for injection in pre-filled syringe or pre-filled pen

Store in a refrigerator at 2 – 8 °C. DO NOT FREEZE.

Before injection, ENBREL PS single pre-filled syringe or pre-filled pen should be allowed to reach

room temperature (approximately 15 to 30 minutes). The needle cover or cap should not be removed

while allowing the pre-filled syringe or pre-filled pen to reach room temperature.

# 6.5 Nature and contents of container

ENBREL 25 mg powder and solvent for solution for injection

ENBREL is supplied in a carton containing two dose trays, each with two divisions. Each division

contains one 25 mg single-use vial of ENBREL, a pre-filled clear glass syringe, with a tamper evident

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seal, a needle-free transfer device (vial adapter) and two alcohol swabs.

ENBREL 25 mg and 50 mg PS solution for injection in pre-filled syringe

ENBREL 25 mg PS pre-filled syringe is supplied in a carton containing four clear glass pre-filled

syringes with alcohol swabs.

ENBREL 50 mg PS pre-filled syringe is supplied in a carton containing two clear glass pre-filled

syringes with alcohol swabs.

The stainless steel needle is supplied with a rubber needle cover (latex) and plastic cover.

ENBREL 50 mg PS solution for injection in pre-filled pen (MYCLIC)

ENBREL 50 mg PS pre-filled pen is supplied in a carton containing four pre-filled pens with alcohol

swabs. The pre-filled pen contains the pre-filled syringe. The stainless steel needle is supplied with

a rubber needle cap (latex) and plastic cover.

6.6 Special precautions for disposal and other handling

ENBREL 25 mg powder and solvent for solution for injection

ENBREL should be reconstituted aseptically with 1 mL of the supplied water for injection. During

reconstitution of ENBREL, the diluent should be slowly injected into the vial. Some foaming will occur.

To avoid excessive foaming, do not shake or vigorously agitate. The contents should be swirled

gently during dissolution. Generally, dissolution of ENBREL takes less than 10 minutes. The

reconstituted solution should be clear and colourless.

Visually inspect the solution for particulate matter and discolouration prior to administration. The

solution should not be used if discoloured or cloudy, or if particulate matter remains. Withdraw the

solution into the syringe, removing as much liquid as possible from the vial. Some foam or bubbles

may remain in the vial. The final volume in the syringe will be approximately 1 mL.

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No other medicines should be added to solutions containing ENBREL, and ENBREL should not be

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reconstituted with other diluents. Do not filter reconstituted solution during preparation or

administration.

The rubber closure of the solvent syringe contains latex (dry natural rubber). Patients or caregivers

should contact the health care provider before using ENBREL if the rubber closure of the solvent

syringe will be handled by or if ENBREL will be given to someone with a known or possible

hypersensitivity (allergy) to latex.

ENBREL 25 mg and 50 mg PS solution for injection in pre-filled syringe or pre-filled pen

Before injection, ENBREL PS single use pre-filled syringes or pre-filled pen should be allowed to

reach room temperature (approximately 15 – 30 minutes). The needle cover should not be removed

while allowing the pre-filled syringe or pre-filled pen to reach room temperature. The needle cover of

the pre-filled syringe and the needle cap of the pre-filled pen contain latex (dry natural rubber).

Patients or caregivers should contact their health care provider before using ENBREL PS if the

needle cover will be handled by or if ENBREL PS will be given to someone with a known or possible

hypersensitivity (allergy) to latex.

7. HOLDER OF CERTIFICATE OF REGISTRATION

Pfizer Laboratories (Pty) Ltd

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Sandton 2196

South Africa

Tel: +27(0)11 320 6000 / 0860 734 937 (Toll-free South Africa)

8. REGISTRATION NUMBERS

ENBREL 25 mg: 34/3.1/0330

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Solvent for ENBREL 25 mg: 34/34/0331

ENBREL 25 mg PS: 41/3.1/0762

ENBREL 50 mg PS: 41/3.1/0763

# 9. DATE OF FIRST AUTHORISATION

ENBREL 25 mg: 17/05/2002

Solvent for ENBREL 25 mg: 06/02/2004

ENBREL 25 mg PS: 04/03/2011

ENBREL 50 mg PS: 04/03/2011

## 10. DATE OF REVISION OF THE TEXT

30 March 2023

## NAMIBIA:

ENBREL 25 mg Powder and Solvent: 04/3.1/1704

ENBREL 25 mg PS: 16/3.1/0203

ENBREL 50 mg PS: 16/3.1/0204

ENBREL 50 mg PFP: 16/3.1/0205