

ENBREL[®] (etanercept)

For Subcutaneous Injection

DESCRIPTION

ENBREL[®] (etanercept) is a dimeric fusion protein consisting of the extracellular ligand-binding portion of the human 75 kilodalton (p75) tumor necrosis factor receptor (TNFR) linked to the Fc portion of human IgG1. The Fc component of etanercept contains the C_H2 domain, the C_H3 domain and hinge region, but not the C_H1 domain of IgG1. Etanercept is produced by recombinant DNA technology in a Chinese hamster ovary (CHO) mammalian cell expression system. It consists of 934 amino acids and has an apparent molecular weight of approximately 150 kilodaltons.

ENBREL[®] single-use prefilled syringes are available in 25 mg (0.51 mL of a 50 mg/mL solution of etanercept) and 50 mg (0.98 mL of a 50 mg/mL solution of etanercept) dosage strengths.

ENBREL[®] single-use prefilled SureClick[™] autoinjectors are available in 50 mg (0.98 mL of a 50 mg/mL solution of etanercept).

The solution of ENBREL[®] is clear and colorless, sterile, preservative-free, and is formulated at pH 6.3 ± 0.2. Each ENBREL[®] prefilled syringe and SureClick[™] autoinjector contains a 50 mg/mL solution of etanercept with 10 mg/mL sucrose, 5.8 mg/mL sodium chloride, 5.3 mg/mL L-arginine hydrochloride, 2.6 mg/mL sodium phosphate monobasic monohydrate and 0.9 mg/mL sodium phosphate dibasic anhydrous.

ENBREL[®] multiple-use vials are available containing 25 mg of etanercept. ENBREL[®] is supplied in a multiple-use vial as a sterile, white, preservative-free, lyophilized powder.

Reconstitution with 1 mL of the supplied Sterile Bacteriostatic Water for Injection (BWFI), USP (containing 0.9% benzyl alcohol) yields a multiple-use, clear, and colorless solution with a pH of 7.4 ± 0.3 containing 25 mg etanercept, 40 mg mannitol, 10 mg sucrose, and 1.2 mg tromethamine.

Administration of one 50 mg ENBREL[®] prefilled syringe or one ENBREL[®] SureClick[™] autoinjector provides a dose equivalent to two 25 mg ENBREL[®] prefilled syringes or two multiple-use vials of lyophilized ENBREL[®], when vials are reconstituted and administered as recommended.

CLINICAL PHARMACOLOGY

General

Etanercept binds specifically to tumor necrosis factor (TNF) and blocks its interaction with cell surface TNF receptors. TNF is a naturally occurring cytokine that is involved in normal inflammatory and immune responses. It plays an important role in the inflammatory processes of rheumatoid arthritis (RA), polyarticular-course juvenile rheumatoid arthritis (JRA), and ankylosing

spondylitis and the resulting joint pathology. In addition, TNF plays a role in the inflammatory process of plaque psoriasis. Elevated levels of TNF are found in involved tissues and fluids of patients with RA, psoriatic arthritis, ankylosing spondylitis (AS), and plaque psoriasis.

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

Etanercept is a dimeric soluble form of the p75 TNF receptor that can bind to two TNF molecules. It inhibits the activity of TNF in vitro and has been shown to affect several animal models of inflammation, including murine collagen-induced arthritis. Etanercept inhibits binding of both TNF α and TNF β (lymphotoxin alpha [LT α]) to cell surface TNFRs, rendering TNF biologically inactive. Cells expressing transmembrane TNF that bind ENBREL[®] are not lysed in vitro in the presence or absence of complement.

Etanercept can also modulate biological responses that are induced or regulated by TNF, including expression of adhesion molecules responsible for leukocyte migration (i.e., E-selectin and to a lesser extent intercellular adhesion molecule-1 [ICAM-1]), serum levels of cytokines (e.g., IL-6), and serum levels of matrix metalloproteinase-3 (MMP-3 or stromelysin).

Pharmacokinetics

After administration of 25 mg of ENBREL[®] by a single subcutaneous (SC) injection to 25 patients with RA, a mean \pm standard deviation half-life of 102 ± 30 hours was observed with a clearance of 160 ± 80 mL/hr. A maximum serum concentration (C_{max}) of 1.1 ± 0.6 mcg/mL and time to C_{max} of 69 ± 34 hours was observed in these patients following a single 25 mg dose. After 6 months of twice weekly 25 mg doses in these same RA patients, the mean C_{max} was 2.4 ± 1.0 mcg/mL (N = 23). Patients exhibited a two- to seven-fold increase in peak serum concentrations and approximately four-fold increase in AUC_{0-72 hr} (range 1 to 17 fold) with repeated dosing. Serum concentrations in patients with RA have not been measured for periods of dosing that exceed 6 months. The pharmacokinetic parameters in patients with plaque psoriasis were similar to those seen in patients with RA.

In another study, serum concentration profiles at steady state were comparable among patients with RA treated with 50 mg ENBREL[®] once weekly and those treated with 25 mg ENBREL[®] twice weekly. The mean (\pm standard deviation) C_{max}, C_{min}, and partial AUC were 2.4 ± 1.5 mg/L, 1.2 ± 0.7 mg/L, and 297 ± 166 mg•h/L, respectively, for patients treated with 50 mg ENBREL[®] once weekly (N = 21); and 2.6 ± 1.2 mg/L, 1.4 ± 0.7 mg/L, and 316 ± 135 mg•h/L for patients treated with 25 mg ENBREL[®] twice weekly (N = 16).

Pharmacokinetic parameters were not different between men and women and did not vary with age in adult patients. No formal pharmacokinetic studies have been conducted to examine the effects of renal or hepatic impairment on ENBREL[®] disposition.

Patients with JRA (ages 4 to 17 years) were administered 0.4 mg/kg of ENBREL[®] twice weekly for up to 18 weeks. The mean serum concentration after repeated SC dosing was 2.1 mcg/mL, with a range of 0.7 to 4.3 mcg/mL. Limited data suggests that the clearance of ENBREL[®] is reduced slightly in children ages 4 to 8 years. Population pharmacokinetic analyses predict that administration of 0.8 mg/kg of ENBREL[®] once weekly will result in C_{max} 11% higher, and C_{min} 20% lower at steady state as compared to administration of 0.4 mg/kg of ENBREL[®] twice weekly.

The predicted pharmacokinetic differences between the regimens in JRA patients are of the same magnitude as the differences observed between twice weekly and weekly regimens in adult RA patients.

CLINICAL STUDIES

Adult Rheumatoid Arthritis

The safety and efficacy of ENBREL[®] were assessed in four randomized, double-blind, controlled studies. The results of all four trials were expressed in percentage of patients with improvement in RA using American College of Rheumatology (ACR) response criteria.

Study I evaluated 234 patients with active RA who were ≥ 18 years old, had failed therapy with at least one but no more than four disease-modifying antirheumatic drugs (DMARDs; e.g., hydroxychloroquine, oral or injectable gold, methotrexate [MTX], azathioprine, D-penicillamine, sulfasalazine), and had ≥ 12 tender joints, ≥ 10 swollen joints, and either ESR ≥ 28 mm/hr, CRP > 2.0 mg/dL, or morning stiffness for ≥ 45 minutes. Doses of 10 mg or 25 mg ENBREL[®] or placebo were administered SC twice a week for 6 consecutive months. Results from patients receiving 25 mg are presented in Table 1.

Study II evaluated 89 patients and had similar inclusion criteria to Study I except that subjects in Study II had additionally received MTX for at least 6 months with a stable dose (12.5 to 25 mg/week) for at least 4 weeks and they had at least 6 tender or painful joints. Subjects in Study II received a dose of 25 mg ENBREL[®] or placebo SC twice a week for 6 months in addition to their stable MTX dose.

Study III compared the efficacy of ENBREL[®] to MTX in patients with active RA. This study evaluated 632 patients who were ≥ 18 years old with early (≤ 3 years disease duration) active RA; had never received treatment with MTX; and had ≥ 12 tender joints, ≥ 10 swollen joints, and either ESR ≥ 28 mm/hr, CRP > 2.0 mg/dL, or morning stiffness for ≥ 45 minutes. Doses of 10 mg or 25 mg ENBREL[®] were administered SC twice a week for 12 consecutive months. The study was unblinded after all patients had completed at least 12 months (and a median of 17.3 months) of therapy. The majority of patients remained in the study on the treatment to which they were randomized through 2 years, after which they entered an extension study and received open-label 25 mg ENBREL[®]. Results from patients receiving 25 mg are presented in Table 1. MTX tablets (escalated from 7.5 mg/week to a maximum of 20 mg/week over the first 8 weeks of the trial) or placebo tablets were given once a week on the same day as the injection of placebo or ENBREL[®] doses, respectively.

Study IV evaluated 682 adult patients with active RA of 6 months to 20 years duration (mean of 7 years) who had an inadequate response to at least one DMARD other than MTX. Forty-three percent of patients had previously received MTX a mean of two years prior to the trial at a mean dose of 12.9 mg. Patients were excluded from this study if MTX had been discontinued for lack of efficacy or for safety considerations. The patient baseline characteristics were similar to those of patients in Study I (Table 3). Patients were randomized to MTX alone (7.5 to 20 mg weekly, dose escalated as described for Study III; median dose 20 mg), ENBREL[®] alone (25 mg twice weekly), or the combination of ENBREL[®] and MTX initiated concurrently (at the same doses as above). The study evaluated ACR response, Sharp radiographic score and safety.

Clinical Response

A higher percentage of patients treated with ENBREL[®] and ENBREL[®] in combination with MTX achieved ACR 20, ACR 50, and ACR 70 responses and Major Clinical Responses than in the comparison groups. The results of Studies I, II, and III are summarized in Table 1. The results of Study IV are summarized in Table 2.

Table 1:
ACR Responses in Placebo- and Active-Controlled Trials
(Percent of Patients)

Response	Placebo Controlled				Active Controlled	
	Study I		Study II		Study III	
	Placebo	ENBREL ^{®a}	MTX/ Placebo	MTX/ ENBREL ^{®a}	MTX	ENBREL ^{®a}
	N = 80	N = 78	N = 30	N = 59	N = 217	N = 207
<u>ACR 20</u>						
Month 3	23%	62% ^b	33%	66% ^b	56%	62%
Month 6	11%	59% ^b	27%	71% ^b	58%	65%
Month 12	NA	NA	NA	NA	65%	72%
<u>ACR 50</u>						
Month 3	8%	41% ^b	0%	42% ^b	24%	29%
Month 6	5%	40% ^b	3%	39% ^b	32%	40%
Month 12	NA	NA	NA	NA	43%	49%
<u>ACR 70</u>						
Month 3	4%	15% ^b	0%	15% ^b	7%	13% ^c
Month 6	1%	15% ^b	0%	15% ^b	14%	21% ^c
Month 12	NA	NA	NA	NA	22%	25%

^a 25 mg ENBREL[®] SC twice weekly.

^b p < 0.01, ENBREL[®] vs. placebo.

^c p < 0.05, ENBREL[®] vs. MTX.

Table 2:
Study IV Clinical Efficacy Results: Comparison of MTX vs ENBREL® vs ENBREL®
in Combination with MTX in Patients with RA
of 6 Months to 20 Years Duration
(Percent of Patients)

Endpoint	MTX (N = 228)	ENBREL® (N = 223)	ENBREL®/MTX (N = 231)
<u>ACR N^{a, b}</u>			
Month 12	40	47	63 ^c
<u>ACR 20</u>			
Month 12	59%	66%	75% ^c
<u>ACR 50</u>			
Month 12	36%	43%	63% ^c
<u>ACR 70</u>			
Month 12	17%	22%	40% ^c
Major Clinical Response^d	6%	10%	24% ^c

^a Values are medians.

^b ACR N is the percent improvement based on the same core variables used in defining ACR 20, ACR 50, and ACR 70.

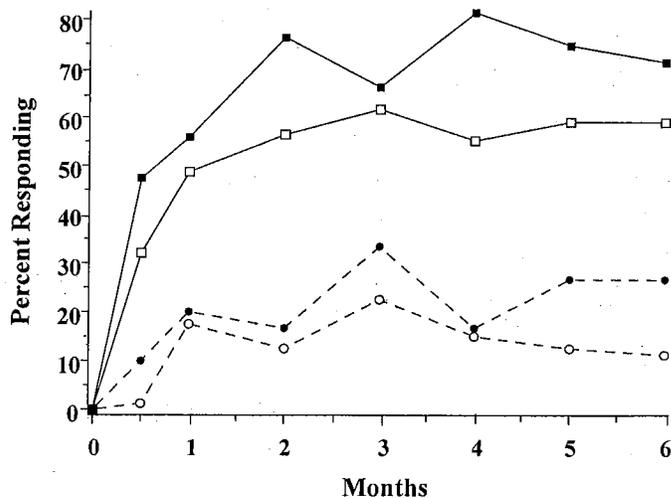
^c $p < 0.05$ for comparisons of ENBREL®/MTX vs ENBREL® alone or MTX alone.

^d Major clinical response is achieving an ACR 70 response for a continuous 6-month period.

The time course for ACR 20 response rates for patients receiving placebo or 25 mg ENBREL® in Studies I and II is summarized in Figure 1. The time course of responses to ENBREL® in Study III was similar.

**Figure 1:
Time Course of ACR 20 Responses**

○ Placebo, Study I (placebo alone) □ 25 mg ENBREL[®], Study I (ENBREL[®] alone)
● Placebo, Study II (placebo + MTX) ■ 25 mg ENBREL[®], Study II (ENBREL[®] + MTX)



Among patients receiving ENBREL[®], the clinical responses generally appeared within 1 to 2 weeks after initiation of therapy and nearly always occurred by 3 months. A dose response was seen in Studies I and III: 25 mg ENBREL[®] was more effective than 10 mg (10 mg was not evaluated in Study II). ENBREL[®] was significantly better than placebo in all components of the ACR criteria as well as other measures of RA disease activity not included in the ACR response criteria, such as morning stiffness.

In Study III, ACR response rates and improvement in all the individual ACR response criteria were maintained through 24 months of ENBREL[®] therapy. Over the 2-year study, 23% of ENBREL[®] patients achieved a major clinical response, defined as maintenance of an ACR 70 response over a 6-month period.

The results of the components of the ACR response criteria for Study I are shown in Table 3. Similar results were observed for ENBREL[®]-treated patients in Studies II and III.

**Table 3:
Components of ACR Response in Study I**

Parameter (median)	Placebo N = 80		ENBREL ^{®a} N = 78	
	Baseline	3 Months	Baseline	3 Months [*]
Number of tender joints ^b	34.0	29.5	31.2	10.0 ^f
Number of swollen joints ^c	24.0	22.0	23.5	12.6 ^f
Physician global assessment ^d	7.0	6.5	7.0	3.0 ^f
Patient global assessment ^d	7.0	7.0	7.0	3.0 ^f
Pain ^d	6.9	6.6	6.9	2.4 ^f
Disability index ^e	1.7	1.8	1.6	1.0 ^f
ESR (mm/hr)	31.0	32.0	28.0	15.5 ^f
CRP (mg/dL)	2.8	3.9	3.5	0.9 ^f

* Results at 6 months showed similar improvement.

^a 25 mg ENBREL[®] SC twice weekly.

^b Scale 0 – 71.

^c Scale 0 – 68.

^d Visual analog scale; 0 = best, 10 = worst.

^e Health Assessment Questionnaire¹; 0 = best, 3 = worst; includes eight categories: dressing and grooming, arising, eating, walking, hygiene, reach, grip, and activities.

^f p < 0.01, ENBREL[®] vs. placebo, based on mean percent change from baseline.

After discontinuation of ENBREL[®], symptoms of arthritis generally returned within a month. Reintroduction of treatment with ENBREL[®] after discontinuations of up to 18 months resulted in the same magnitudes of response as patients who received ENBREL[®] without interruption of therapy based on results of open-label studies.

Continued durable responses were seen for over 60 months in open-label extension treatment trials when patients received ENBREL[®] without interruption. A substantial number of patients who initially received concomitant MTX or corticosteroids were able to reduce their doses or discontinue these concomitant therapies while maintaining their clinical responses.

A 24-week study was conducted in 242 patients with active RA on background methotrexate who were randomized to receive either ENBREL[®] alone or the combination of ENBREL[®] and anakinra. The ACR 50 response rate was 31% for patients treated with the combination of ENBREL[®] and anakinra and 41% for patients treated with ENBREL[®] alone, indicating no added clinical benefit of the combination over ENBREL[®] alone. Serious infections were increased with the combination compared to ENBREL[®] alone (see **WARNINGS**).

Physical Function Response

In Studies I, II, and III, physical function and disability were assessed using the Health Assessment Questionnaire (HAQ).¹ Additionally, in Study III, patients were administered the SF-36² Health Survey. In Studies I and II, patients treated with 25 mg ENBREL[®] twice weekly showed greater improvement from baseline in the HAQ score beginning in month 1 through month 6 in comparison to placebo ($p < 0.001$) for the HAQ disability domain (where 0 = none and 3 = severe). In Study I, the mean improvement in the HAQ score from baseline to month 6 was 0.6 (from 1.6 to 1.0) for the 25 mg ENBREL[®] group and 0 (from 1.7 to 1.7) for the placebo group. In Study II, the mean improvement from baseline to month 6 was 0.6 (from 1.5 to 0.9) for the ENBREL[®]/MTX group and 0.2 (from 1.3 to 1.2) for the placebo/MTX group. In Study III, the mean improvement in the HAQ score from baseline to month 6 was 0.7 (from 1.5 to 0.7) for 25 mg ENBREL[®] twice weekly. All subdomains of the HAQ in Studies I and III were improved in patients treated with ENBREL[®].

In Study III, patients treated with 25 mg ENBREL[®] twice weekly showed greater improvement from baseline in SF-36 physical component summary score compared to ENBREL[®] 10 mg twice weekly and no worsening in the SF-36 mental component summary score. In open-label ENBREL[®] studies, improvements in physical function and disability measures have been maintained for up to 4 years.

In Study IV, median HAQ scores improved from baseline levels of 1.8, 1.8, and 1.8 to 1.1, 1.0, and 0.6 at 12 months in the MTX, ENBREL[®], and ENBREL[®]/MTX combination treatment groups, respectively (combination versus both MTX and ENBREL[®], $p < 0.01$). Twenty-nine percent of patients in the MTX alone treatment group had an improvement of HAQ of at least one unit versus 40% and 51% in the ENBREL[®] alone and the ENBREL[®]/MTX combination treatment groups, respectively.

Radiographic Response

In Study III, structural joint damage was assessed radiographically and expressed as change in total Sharp score (TSS) and its components, the erosion score and joint space narrowing (JSN) score. Radiographs of hands/wrists and forefeet were obtained at baseline, 6 months, 12 months, and 24 months and scored by readers who were unaware of treatment group. The results are shown in Table 4. A significant difference for change in erosion score was observed at 6 months and maintained at 12 months.

Table 4:
Mean Radiographic Change Over 6 and 12 Months in Study III

		MTX	25 mg ENBREL [®]	MTX/ENBREL [®] (95% Confidence Interval [*])	P-value
12 Months	Total Sharp score	1.59	1.00	0.59 (-0.12, 1.30)	0.1
	Erosion score	1.03	0.47	0.56 (0.11, 1.00)	0.002
	JSN score	0.56	0.52	0.04 (-0.39, 0.46)	0.5
6 Months	Total Sharp score	1.06	0.57	0.49 (0.06, 0.91)	0.001
	Erosion score	0.68	0.30	0.38 (0.09, 0.66)	0.001
	JSN score	0.38	0.27	0.11 (-0.14, 0.35)	0.6

* 95% confidence intervals for the differences in change scores between MTX and ENBREL[®].

Patients continued on the therapy to which they were randomized for the second year of Study III. Seventy-two percent of patients had x-rays obtained at 24 months. Compared to the patients in the MTX group, greater inhibition of progression in TSS and erosion score was seen in the 25 mg ENBREL[®] group, and in addition, less progression was noted in the JSN score.

In the open-label extension of Study III, 48% of the original patients treated with 25 mg ENBREL[®] have been evaluated radiographically at 5 years. Patients had continued inhibition of structural damage, as measured by the TSS, and 55% of them had no progression of structural damage. Patients originally treated with MTX had further reduction in radiographic progression once they began treatment with ENBREL[®].

In Study IV, less radiographic progression (TSS) was observed with ENBREL[®] in combination with MTX compared with ENBREL[®] alone or MTX alone at month 12 (Table 5). In the MTX treatment group 55% of patients experienced no radiographic progression (TSS change ≤ 0.0) at 12 months compared to 63% and 76% in the ENBREL[®] alone and the ENBREL[®]/MTX combination treatment groups, respectively.

**Table 5:
Mean Radiographic Change in Study IV at 12 Months
(95% Confidence Interval)**

	MTX (N = 212)*	ENBREL [®] (N = 212)*	ENBREL [®] /MTX (N = 218)*
Total Sharp Scores (TSS)	2.80 (1.08, 4.51)	0.52 ^a (-0.10, 1.15)	-0.54 ^{b,c} (-1.00, -0.07)
Erosion Score (ES)	1.68 (0.61, 2.74)	0.21 ^a (-0.20, 0.61)	-0.30 ^b (-0.65, 0.04)
Joint Space Narrowing Score (JSN)	1.12 (0.34, 1.90)	0.32 (0.00, 0.63)	-0.23 ^{b,c} (-0.45, -0.02)

* Analyzed radiographic ITT population.

^a $p < 0.05$ for comparison of ENBREL[®] vs MTX.

^b $p < 0.05$ for comparison of ENBREL[®]/MTX vs MTX.

^c $p < 0.05$ for comparison of ENBREL[®]/MTX vs ENBREL[®].

Once Weekly Dosing

The safety and efficacy of 50 mg ENBREL[®] (two 25 mg SC injections) administered once weekly were evaluated in a double-blind, placebo-controlled study of 420 patients with active RA. Fifty-three patients received placebo, 214 patients received 50 mg ENBREL[®] once weekly, and 153 patients received 25 mg ENBREL[®] twice weekly. The safety and efficacy profiles of the two ENBREL[®] treatment groups were similar.

Polyarticular-Course Juvenile Rheumatoid Arthritis (JRA)

The safety and efficacy of ENBREL[®] were assessed in a two-part study in 69 children with polyarticular-course JRA who had a variety of JRA onset types. Patients ages 4 to 17 years with moderately to severely active polyarticular-course JRA refractory to or intolerant of methotrexate were enrolled; patients remained on a stable dose of a single nonsteroidal anti-inflammatory drug and/or prednisone (≤ 0.2 mg/kg/day or 10 mg maximum). In part 1, all patients received 0.4 mg/kg (maximum 25 mg per dose) ENBREL[®] SC twice weekly. In part 2, patients with a clinical response at day 90 were randomized to remain on ENBREL[®] or receive placebo for four months and assessed for disease flare. Responses were measured using the JRA Definition of Improvement (DOI),³ defined as $\geq 30\%$ improvement in at least three of six and $\geq 30\%$ worsening in no more than one of the six JRA core set criteria, including active joint count, limitation of motion, physician and patient/parent global assessments, functional assessment, and ESR. Disease flare was defined as a $\geq 30\%$ worsening in three of the six JRA core set criteria and $\geq 30\%$ improvement in not more than one of the six JRA core set criteria and a minimum of two active joints.

In part 1 of the study, 51 of 69 (74%) patients demonstrated a clinical response and entered part 2. In part 2, 6 of 25 (24%) patients remaining on ENBREL[®] experienced a disease flare compared to 20 of 26 (77%) patients receiving placebo ($p = 0.007$). From the start of part 2, the median time to flare was ≥ 116 days for patients who received ENBREL[®] and 28 days for patients who received placebo. Each component of the JRA core set criteria worsened in the arm that received placebo and remained stable or improved in the arm that continued on ENBREL[®]. The data suggested the possibility of a higher flare rate among those patients with a higher baseline ESR. Of patients who demonstrated a clinical response at 90 days and entered part 2 of the study, some of the patients remaining on ENBREL[®] continued to improve from month 3 through month 7, while those who received placebo did not improve.

The majority of JRA patients who developed a disease flare in part 2 and reintroduced ENBREL[®] treatment up to 4 months after discontinuation re-responded to ENBREL[®] therapy in open-label studies. Most of the responding patients who continued ENBREL[®] therapy without interruption have maintained responses for up to 48 months.

Studies have not been done in patients with polyarticular-course JRA to assess the effects of continued ENBREL[®] therapy in patients who do not respond within 3 months of initiating ENBREL[®] therapy, or to assess the combination of ENBREL[®] with methotrexate.

Psoriatic Arthritis

The safety and efficacy of ENBREL[®] were assessed in a randomized, double-blind, placebo-controlled study in 205 patients with psoriatic arthritis. Patients were between 18 and 70 years of age and had active psoriatic arthritis (≥ 3 swollen joints and ≥ 3 tender joints) in one or more of the following forms: (1) distal interphalangeal (DIP) involvement (N = 104); (2) polyarticular arthritis (absence of rheumatoid nodules and presence of psoriasis; N = 173); (3) arthritis mutilans (N = 3); (4) asymmetric psoriatic arthritis (N = 81); or (5) ankylosing spondylitis-like (N = 7). Patients also had plaque psoriasis with a qualifying target lesion ≥ 2 cm in diameter. Patients on MTX therapy at enrollment (stable for ≥ 2 months) could continue at a stable dose of ≤ 25 mg/week MTX. Doses of 25 mg ENBREL[®] or placebo were administered SC twice a week during the initial 6-month double-blind period of the study. Patients continued to receive blinded therapy in an up to 6-month maintenance period until all patients had completed the controlled period. Following this, patients received open-label 25 mg ENBREL[®] twice a week in a 12-month extension period.

Compared to placebo, treatment with ENBREL[®] resulted in significant improvements in measures of disease activity (Table 6).

Table 6:
Components of Disease Activity in Psoriatic Arthritis

Parameter (median)	Placebo N = 104		ENBREL ^{®a} N = 101	
	Baseline	6 Months	Baseline	6 Months
Number of tender joints ^b	17.0	13.0	18.0	5.0
Number of swollen joints ^c	12.5	9.5	13.0	5.0
Physician global assessment ^d	3.0	3.0	3.0	1.0
Patient global assessment ^d	3.0	3.0	3.0	1.0
Morning stiffness (minutes)	60	60	60	15
Pain ^d	3.0	3.0	3.0	1.0
Disability index ^e	1.0	0.9	1.1	0.3
CRP (mg/dL) ^f	1.1	1.1	1.6	0.2

^a p < 0.001 for all comparisons between ENBREL[®] and placebo at 6 months.

^b Scale 0 – 78.

^c Scale 0 – 76.

^d Likert scale; 0 = best, 5 = worst.

^e Health Assessment Questionnaire¹; 0 = best, 3 = worst; includes eight categories: dressing and grooming, arising, eating, walking, hygiene, reach, grip, and activities.

^f Normal range: 0 – 0.79 mg/dL.

Among patients with psoriatic arthritis who received ENBREL[®], the clinical responses were apparent at the time of the first visit (4 weeks) and were maintained through 6 months of therapy. Responses were similar in patients who were or were not receiving concomitant methotrexate therapy at baseline. At 6 months, the ACR 20/50/70 responses were achieved by 50%, 37%, and 9%, respectively, of patients receiving ENBREL[®], compared to 13%, 4%, and 1%, respectively, of patients receiving placebo. Similar responses were seen in patients with each of the subtypes of psoriatic arthritis, although few patients were enrolled with the arthritis mutilans and ankylosing spondylitis-like subtypes. The results of this study were similar to those seen in an earlier single-center, randomized, placebo-controlled study of 60 patients with psoriatic arthritis.

The skin lesions of psoriasis were also improved with ENBREL[®], relative to placebo, as measured by percentages of patients achieving improvements in the Psoriasis Area and Severity Index (PASI).⁴ Responses increased over time, and at 6 months, the proportions of patients achieving a 50% or 75% improvement in the PASI were 47% and 23%, respectively, in the ENBREL[®] group (N = 66), compared to 18% and 3%, respectively, in the placebo group (N = 62). Responses were similar in patients who were or were not receiving concomitant methotrexate therapy at baseline.

Radiographic Response

Radiographic changes were also assessed in the psoriatic arthritis study. Radiographs of hands and wrists were obtained at baseline and months 6, 12, and 24. A modified Total Sharp Score (TSS), which included distal interphalangeal joints (i.e., not identical to the modified TSS used for rheumatoid arthritis) was used by readers blinded to treatment group to assess the radiographs. Some radiographic features specific to psoriatic arthritis (e.g., pencil-and-cup deformity, joint space widening, gross osteolysis and ankylosis) were included in the scoring system, but others (e.g., phalangeal tuft resorption, juxta-articular and shaft periostitis) were not.

Most patients showed little or no change in the modified TSS during this 24-month study (median change of 0 in both patients who initially received ENBREL[®] or placebo). More placebo-treated patients experienced larger magnitudes of radiographic worsening (increased TSS) compared to ENBREL[®] treatment during the controlled period of the study. At 12 months, in an exploratory analysis, 12% (12 of 104) of placebo patients compared to none of the 101 ENBREL[®]-treated patients had increases of 3 points or more in TSS. Inhibition of radiographic progression was maintained in patients who continued on ENBREL[®] during the second year. Of the patients with one-year and two-year x-rays, 3% (2 of 71) had increases of 3 points or more in TSS at one and two years.

Physical Function Response

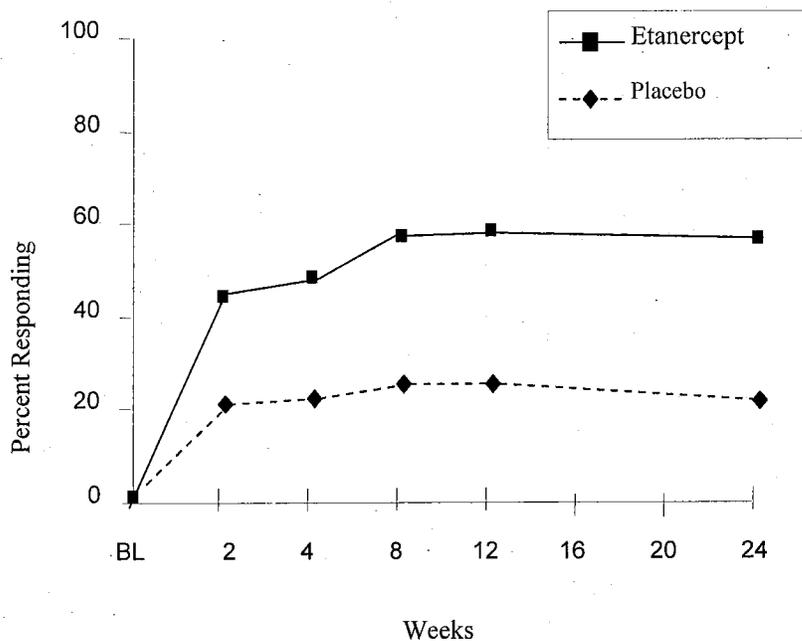
In the psoriatic arthritis study, physical function and disability were assessed using the HAQ Disability Index (HAQ-DI)¹ and the SF-36² Health Survey. Patients treated with 25 mg ENBREL[®] twice weekly showed greater improvement from baseline in the HAQ-DI score (mean decreases of 54% at both months 3 and 6) in comparison to placebo (mean decreases of 6% at both months 3 and 6) (p < 0.001). At months 3 and 6, patients treated with ENBREL[®] showed greater improvement from baseline in the SF-36 physical component summary score compared to patients treated with placebo, and no worsening in the SF-36 mental component summary score. Improvements in physical function and disability measures were maintained for up to 2 years through the open-label portion of the study.

Ankylosing Spondylitis

The safety and efficacy of ENBREL[®] were assessed in a randomized, double-blind, placebo-controlled study in 277 patients with active ankylosing spondylitis. Patients were between 18 and 70 years of age and had ankylosing spondylitis as defined by the modified New York Criteria for Ankylosing Spondylitis.⁵ Patients were to have evidence of active disease based on values of ≥ 30 on a 0 – 100 unit Visual Analog Scale (VAS) for the average of morning stiffness duration and intensity, and 2 of the following 3 other parameters: a) patient global assessment, b) average of nocturnal and total back pain, and c) the average score on the Bath Ankylosing Spondylitis Functional Index (BASFI). Patients with complete ankylosis of the spine were excluded from study participation. Patients taking hydroxychloroquine, sulfasalazine, methotrexate, or prednisone (≤ 10 mg/day) could continue these drugs at stable doses for the duration of the study. Doses of 25 mg ENBREL[®] or placebo were administered SC twice a week for 6 months.

The primary measure of efficacy was a 20% improvement in the Assessment in Ankylosing Spondylitis (ASAS) response criteria.⁶ Compared to placebo, treatment with ENBREL[®] resulted in improvements in the ASAS and other measures of disease activity (Figure 2 and Table 7).

Figure 2: ASAS 20 Responses in Ankylosing Spondylitis



At 12 weeks, the ASAS 20/50/70 responses were achieved by 60%, 45%, and 29%, respectively, of patients receiving ENBREL[®], compared to 27%, 13%, and 7%, respectively, of patients receiving placebo ($p \leq 0.0001$, ENBREL[®] vs. placebo). Similar responses were seen at week 24. Responses were similar between those patients receiving concomitant therapies at baseline and those who were not. The results of this study were similar to those seen in a single-center, randomized, placebo-controlled study of 40 patients and a multi-center, randomized, placebo-controlled study of 84 patients with ankylosing spondylitis.

**Table 7:
Components of Ankylosing Spondylitis Disease Activity**

Mean values at time points	Placebo N = 139		ENBREL ^{®a} N = 138	
	Baseline	6 Months	Baseline	6 Months
ASAS response criteria				
Patient global assessment ^b	63	56	63	36
Back pain ^c	62	56	60	34
BASFI ^d	56	55	52	36
Inflammation ^e	64	57	61	33
Acute phase reactants				
CRP (mg/dL) ^f	2.0	1.9	1.9	0.6
Spinal mobility (cm):				
Modified Schober's test	3.0	2.9	3.1	3.3
Chest expansion	3.2	3.0	3.3	3.9
Occiput-to-wall measurement	5.3	6.0	5.6	4.5

^a p < 0.0015 for all comparisons between ENBREL[®] and placebo at 6 months. P-values for continuous endpoints were based on percent change from baseline.

^b Measured on a Visual Analog Scale (VAS) with 0 = "none" and 100 = "severe."

^c Average of total nocturnal and back pain scores, measured on a VAS with 0 = "no pain" and 100 = "most severe pain."

^d Bath Ankylosing Spondylitis Functional Index (BASFI), average of 10 questions.

^e Inflammation represented by the average of the last 2 questions on the 6-question Bath Ankylosing Spondylitis Disease Activity Index (BASDAI).

^f C-reactive protein (CRP) normal range: 0 – 1.0 mg/dL.

Plaque Psoriasis

The safety and efficacy of ENBREL[®] were assessed in two randomized, double-blind, placebo-controlled studies in adults with chronic stable plaque psoriasis involving ≥ 10% of the body surface area, a minimum PASI of 10 and who had received or were candidates for systemic anti-psoriatic therapy or phototherapy. Patients with guttate, erythrodermic, or pustular psoriasis and patients with severe infections within 4 weeks of screening were excluded from study. No concomitant major anti-psoriatic therapies were allowed during the study.

Study I evaluated 672 patients who received placebo or ENBREL[®] SC at doses of 25 mg once a week, 25 mg twice a week or 50 mg twice a week for 3 months. After 3 months, patients continued on blinded treatments for an additional 3 months during which time, patients originally randomized to placebo began treatment with blinded ENBREL[®] at 25 mg twice weekly (designated as placebo/ENBREL[®] in Table 8); patients originally randomized to ENBREL[®] continued on the originally randomized dose (designated as ENBREL[®]/ENBREL[®] groups in Table 8).

Study II evaluated 611 patients who received placebo or ENBREL[®] SC at doses of 25 mg or 50 mg twice a week for 3 months. After 3 months of randomized blinded treatment, patients in all three arms began receiving open-label ENBREL[®] at 25 mg twice weekly for 9 additional months.

Response to treatment in both studies was assessed after 3 months of therapy and was defined as the proportion of patients who achieved a reduction in score of at least 75% from baseline by the Psoriasis Area and Severity Index (PASI). The PASI is a composite score that takes into consideration both the fraction of body surface area affected and the nature and severity of psoriatic changes within the affected regions (induration, erythema, and scaling).

Other evaluated outcomes included the proportion of patients who achieved a score of “clear” or “minimal” by the Static Physician Global Assessment (sPGA) and the proportion of patients with a reduction of PASI of at least 50% from baseline. The sPGA is a 6 category scale ranging from “5 = severe” to “0 = none” indicating the physician’s overall assessment of the psoriasis severity focusing on induration, erythema, and scaling. Treatment success of “clear” or “minimal” consisted of none or minimal elevation in plaque, up to faint red coloration in erythema, and none or minimal fine scale over < 5% of the plaque.

Patients in all treatment groups and in both studies had a median baseline PASI score ranging from 15 to 17; and the percentage of patients with baseline sPGA classifications ranged from 54% to 66% for moderate, 17% to 26% for marked, and 1% to 5% for severe. Across all treatment groups, the percentage of patients who previously received systemic therapy for psoriasis ranged from 61% to 65% in Study I, and 71% to 75% in Study II; and those who previously received phototherapy ranged from 44% to 50% in Study I, and 72% to 73% in Study II.

More patients randomized to ENBREL[®] than placebo achieved at least a 75% reduction from baseline PASI score (PASI 75) with a dose response relationship across doses of 25 mg once a week, 25 mg twice a week and 50 mg twice a week (Tables 8 and 9). The individual components of the PASI (induration, erythema, and scaling) contributed comparably to the overall treatment-associated improvement in PASI.

Table 8: Study I Outcomes at 3 and 6 Months

	Placebo/ENBREL [®] 25 mg BIW (N = 168)	ENBREL [®] /ENBREL [®]		
		25 mg QW (N = 169)	25 mg BIW (N = 167)	50 mg BIW (N = 168)
3 Months				
PASI 75 n (%)	6 (4%)	23 (14%) ^a	53 (32%) ^b	79 (47%) ^b
Difference (95% CI)		10% (4, 16)	28% (21, 36)	43% (35, 52)
sPGA, “clear” or “minimal” n (%)	8 (5%)	36 (21%) ^b	53 (32%) ^b	79 (47%) ^b
Difference (95% CI)		17% (10, 24)	27% (19, 35)	42% (34, 50)
PASI 50 n (%)	24 (14%)	62 (37%) ^b	90 (54%) ^b	119 (71%) ^b
Difference (95% CI)		22% (13, 31)	40% (30, 49)	57% (48, 65)
6 Months				
PASI 75 n (%)	55 (33%)	36 (21%)	68 (41%)	90 (54%)

^a p = 0.001 compared with placebo.

^b p < 0.0001 compared with placebo.

Table 9: Study II Outcomes at 3 Months

	Placebo (N = 204)	ENBREL [®]	
		25 mg BIW (N = 204)	50 mg BIW (N = 203)
PASI 75 n (%)	6 (3%)	66 (32%) ^a	94 (46%) ^a
Difference (95% CI)		29% (23, 36)	43% (36, 51)
sPGA "clear" or "minimal" n (%)	7 (3%)	75 (37%) ^a	109 (54%) ^a
Difference (95% CI)		34% (26, 41)	50% (43, 58)
PASI 50 n (%)	18 (9%)	124 (61%) ^a	147 (72%) ^a
Difference (95% CI)		52% (44, 60)	64% (56, 71)

^a p < 0.0001 compared with placebo.

Among PASI 75 achievers in both studies, the median time to PASI 50 and PASI 75 was approximately 1 and approximately 2 months, respectively, after the start of therapy with either 25 or 50 mg twice a week.

In Study I patients who achieved PASI 75 at month 6 were entered into a study drug withdrawal and retreatment period. Following withdrawal of study drug, these patients had a median duration of PASI 75 of between 1 and 2 months.

In Study I, in patients who were PASI 75 responders at 3 months, retreatment with open-label ENBREL[®] after discontinuation of up to 5 months resulted in a similar proportion of responders as was seen during the initial double-blind portion of the study.

In Study II, most patients initially randomized to 50 mg twice a week continued in the study after month 3 and had their ENBREL[®] dose decreased to 25 mg twice a week. Of the 91 patients who were PASI 75 responders at month 3, 70 (77%) maintained their PASI 75 response at month 6.

Efficacy and safety of ENBREL[®] treatment beyond 12 months has not been adequately evaluated in patients with psoriasis.

INDICATIONS AND USAGE

ENBREL[®] is indicated for reducing signs and symptoms, inducing major clinical response, inhibiting the progression of structural damage, and improving physical function in patients with moderately to severely active rheumatoid arthritis. ENBREL[®] can be initiated in combination with methotrexate (MTX) or used alone.

ENBREL[®] is indicated for reducing signs and symptoms of moderately to severely active polyarticular-course juvenile rheumatoid arthritis in patients who have had an inadequate response to one or more DMARDs.

ENBREL[®] is indicated for reducing signs and symptoms, inhibiting the progression of structural damage of active arthritis, and improving physical function in patients with psoriatic arthritis. ENBREL[®] can be used in combination with methotrexate in patients who do not respond adequately to methotrexate alone.

ENBREL[®] is indicated for reducing signs and symptoms in patients with active ankylosing spondylitis.

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.

CONTRAINDICATIONS

ENBREL[®] should not be administered to patients with sepsis or with known hypersensitivity to ENBREL[®] or any of its components.

WARNINGS

INFECTIONS

IN POST-MARKETING REPORTS, SERIOUS INFECTIONS AND SEPSIS, INCLUDING FATALITIES, HAVE BEEN REPORTED WITH THE USE OF ENBREL[®]. MANY OF THE SERIOUS INFECTIONS HAVE OCCURRED IN PATIENTS ON CONCOMITANT IMMUNOSUPPRESSIVE THERAPY THAT, IN ADDITION TO THEIR UNDERLYING DISEASE, COULD PREDISPOSE THEM TO INFECTIONS. RARE CASES OF TUBERCULOSIS (TB) HAVE BEEN OBSERVED IN PATIENTS TREATED WITH TNF ANTAGONISTS, INCLUDING ENBREL[®]. 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 OR SEPSIS. TREATMENT WITH ENBREL[®] SHOULD NOT BE INITIATED IN PATIENTS WITH ACTIVE INFECTIONS, INCLUDING CHRONIC OR LOCALIZED INFECTIONS. PHYSICIANS 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 (see PRECAUTIONS and ADVERSE REACTIONS: Infections).

IN A 24-WEEK STUDY OF CONCURRENT ENBREL[®] AND ANAKINRA THERAPY, THE RATE OF SERIOUS INFECTIONS IN THE COMBINATION ARM (7%) WAS HIGHER THAN WITH ENBREL[®] ALONE (0%). THE COMBINATION OF ENBREL[®] AND ANAKINRA DID NOT RESULT IN HIGHER ACR RESPONSE RATES COMPARED TO ENBREL[®] ALONE (see CLINICAL STUDIES: Clinical Response and ADVERSE REACTIONS: Infections). CONCURRENT THERAPY WITH ENBREL[®] AND ANAKINRA IS NOT RECOMMENDED.

Neurologic Events

Treatment with ENBREL[®] and other agents that inhibit TNF have been associated with rare cases of new onset or exacerbation of central nervous system demyelinating disorders, some presenting with mental status changes and some associated with permanent disability. Cases of transverse myelitis, optic neuritis, multiple sclerosis, and new onset or exacerbation of seizure disorders have been observed in association with ENBREL[®] therapy. The causal relationship to ENBREL[®] therapy remains unclear. While no clinical trials have been performed evaluating ENBREL[®] therapy in patients with multiple sclerosis, other TNF antagonists administered to patients with multiple sclerosis have been associated with increases in disease activity.^{7,8} Prescribers should exercise caution in considering the use of ENBREL[®] in patients with preexisting or recent-onset central nervous system demyelinating disorders (see **ADVERSE REACTIONS**).

Hematologic Events

Rare reports of pancytopenia including aplastic anemia, some with a fatal outcome, have been reported in patients treated with ENBREL[®]. The causal relationship to ENBREL[®] therapy remains unclear. Although no high risk group has been identified, caution should be exercised in patients being treated with ENBREL[®] who have a previous history of significant hematologic abnormalities. All patients should be advised to seek immediate medical attention if they develop signs and symptoms suggestive of blood dyscrasias or infection (e.g., persistent fever, bruising, bleeding, pallor) while on ENBREL[®]. Discontinuation of ENBREL[®] therapy should be considered in patients with confirmed significant hematologic abnormalities.

Two percent of patients treated concurrently with ENBREL[®] and anakinra developed neutropenia (ANC < 1 x 10⁹/L). While neutropenic, one patient developed cellulitis which recovered with antibiotic therapy.

Malignancies

In the controlled portions of clinical trials of all the TNF-blocking agents, more cases of lymphoma have been observed among patients receiving the TNF blocker compared to control patients. During the controlled portions of ENBREL[®] trials, 3 lymphomas were observed among 4509 ENBREL[®]-treated patients versus 0 among 2040 control patients (duration of controlled treatment ranged from 3 to 24 months). In the controlled and open-label portions of clinical trials of ENBREL[®], 9 lymphomas were observed in 5723 patients over approximately 11201 patient-years of therapy. This is 3-fold higher than that expected in the general population. While patients with rheumatoid arthritis or psoriasis, particularly those with highly active disease, may be at a higher risk (up to several fold) for the development of lymphoma, the potential role of TNF-blocking therapy in the development of malignancies is not known (see **ADVERSE REACTIONS: Malignancies**).^{11, 12}

In a randomized, placebo-controlled study of 180 patients with Wegener's granulomatosis where ENBREL[®] was added to standard treatment (including cyclophosphamide, methotrexate, and corticosteroids), patients receiving ENBREL[®] experienced more non-cutaneous solid malignancies than patients receiving placebo (see **ADVERSE REACTIONS: Malignancies**). The addition of ENBREL[®] to standard treatment was not associated with improved clinical outcomes when compared with standard therapy alone. The use of ENBREL[®] in patients with Wegener's granulomatosis receiving immunosuppressive agents is not recommended. The use of ENBREL[®] in patients receiving concurrent cyclophosphamide therapy is not recommended.

Hepatitis B Virus Reactivation

Use of TNF blockers, including ENBREL[®], has been associated with reactivation of hepatitis B virus (HBV) in patients who are chronic carriers of this virus. In some instances, HBV reactivation occurring in conjunction with TNF blocker therapy has been fatal. The majority of these reports have occurred in patients concomitantly receiving other medications that suppress the immune system, which may also contribute to HBV reactivation. Patients at risk for HBV infection should be evaluated for prior evidence of HBV infection before initiating TNF blocker therapy. Prescribers should exercise caution in prescribing TNF blockers for patients identified as carriers of HBV. Adequate data are not available on the safety or efficacy of treating patients who are carriers of HBV with anti-viral therapy in conjunction with TNF blocker therapy to prevent HBV

reactivation. Patients who are carriers of HBV and require treatment with ENBREL[®] should be closely monitored for clinical and laboratory signs of active HBV infection throughout therapy and for several months following termination of therapy. In patients who develop HBV reactivation, consideration should be given to stopping ENBREL[®] and initiating anti-viral therapy with appropriate supportive treatment. The safety of resuming ENBREL[®] therapy after HBV reactivation is controlled is not known. Therefore, prescribers should weigh the risks and benefits when considering resumption of therapy in this situation.

PRECAUTIONS

General

Allergic reactions associated with administration of ENBREL[®] during clinical trials have been reported in < 2% of patients. If an anaphylactic reaction or other serious allergic reaction occurs, administration of ENBREL[®] should be discontinued immediately and appropriate therapy initiated.

Caution: The needle cap on the prefilled syringe and on the SureClick[™] autoinjector contains dry natural rubber (a derivative of latex) which may cause allergic reactions in individuals sensitive to latex.

Information for Patients

Patients or their caregivers should be provided the ENBREL[®] “Patient Information” insert and provided an opportunity to read it and ask questions prior to initiation of therapy. The health care provider should ask the patient questions to determine any risk factors for treatment. Patients developing signs and symptoms of infection should seek medical evaluation immediately.

Latex Sensitivity Allergies

ENBREL[®] is provided as a single-use prefilled syringe, a single-use prefilled SureClick[™] autoinjector, or a multiple-use vial. The patient or caregiver should be informed that the needle cap on the prefilled syringe and on the SureClick[™] autoinjector contains dry natural rubber (a derivative of latex), which should not be handled by persons sensitive to latex.

Administration of ENBREL[®]

If a patient or caregiver is to administer ENBREL[®], the patient or caregiver should be instructed in injection techniques and how to measure and administer the correct dose (see the ENBREL[®] (etanercept) “Patient Information” insert). The first injection should be performed under the supervision of a qualified health care professional. The patient’s or caregiver’s ability to inject subcutaneously should be assessed. Patients and caregivers should be instructed in the technique as well as proper syringe and needle disposal, and be cautioned against reuse of needles and syringes. A puncture-resistant container for disposal of needles, syringes, and autoinjectors should be used. If the product is intended for multiple use, additional syringes, needles, and alcohol swabs will be required.

Patients with Heart Failure

Two large clinical trials evaluating the use of ENBREL[®] in the treatment of heart failure were terminated early due to lack of efficacy. Results of one study suggested higher mortality in patients treated with ENBREL[®] compared to placebo. Results of the second study did not corroborate these observations. Analyses did not identify specific factors associated with increased risk of adverse outcomes in heart failure patients treated with ENBREL[®] (see **ADVERSE REACTIONS: Patients with Heart 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 reports of new onset CHF, including CHF in patients without known preexisting cardiovascular disease. Some of these patients have been under 50 years of age. Physicians should exercise caution when using ENBREL[®] in patients who also have heart failure, and monitor patients carefully.

Immunosuppression

Anti-TNF therapies, including ENBREL[®], affect host defenses against infections and malignancies since TNF mediates inflammation and modulates cellular immune responses. In a study of 49 patients with RA treated with ENBREL[®], there was no evidence of depression of delayed-type hypersensitivity, depression of immunoglobulin levels, or change in enumeration of effector cell populations. The impact of treatment with ENBREL[®] on the development and course of malignancies, as well as active and/or chronic infections, is not fully understood (see **WARNINGS: Malignancies, ADVERSE REACTIONS: Infections, and Malignancies**). The safety and efficacy of ENBREL[®] in patients with immunosuppression or chronic infections have not been evaluated.

Immunizations

Most psoriatic arthritis patients receiving ENBREL[®] were able to mount effective B-cell immune responses 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. Patients receiving ENBREL[®] may receive concurrent vaccinations, except for live vaccines. No data are available on the secondary transmission of infection by live vaccines in patients receiving ENBREL[®] (see **PRECAUTIONS: Immunosuppression**).

It is recommended that JRA patients, if possible, be brought up to date with all immunizations in agreement with current immunization guidelines prior to initiating ENBREL[®] therapy. Patients with a significant exposure to varicella virus should temporarily discontinue ENBREL[®] therapy and be considered for prophylactic treatment with Varicella Zoster Immune Globulin.

Autoimmunity

Treatment with ENBREL[®] may result in the formation of autoantibodies (see **ADVERSE REACTIONS: Autoantibodies**) and, rarely, in the development of a lupus-like syndrome or autoimmune hepatitis (see **ADVERSE REACTIONS: Adverse Reaction Information from Spontaneous Reports**), which may resolve following withdrawal of ENBREL[®]. If a patient develops symptoms and findings suggestive of a lupus-like syndrome or autoimmune hepatitis

following treatment with ENBREL[®], treatment should be discontinued and the patient should be carefully evaluated.

Drug Interactions

Specific drug interaction studies have not been conducted with ENBREL[®]. However, it was observed that the pharmacokinetics of ENBREL[®] was unaltered by concomitant methotrexate in rheumatoid arthritis patients.

In a study in which patients with active RA were treated for up to 24 weeks with concurrent ENBREL[®] and anakinra therapy, a 7% rate of serious infections was observed, which was higher than that observed with ENBREL[®] alone (0%) (see also **WARNINGS**). Two percent of patients treated concurrently with ENBREL[®] and anakinra developed neutropenia ($ANC < 1 \times 10^9/L$).

In a study of patients with Wegener's granulomatosis, the addition of ENBREL[®] to standard therapy (including cyclophosphamide) was associated with a higher incidence of non-cutaneous solid malignancies. The use of ENBREL[®] in patients receiving concurrent cyclophosphamide therapy is not recommended (see **WARNINGS: Malignancies** and **ADVERSE REACTIONS: Malignancies**).

Patients in a clinical study who were on established therapy with sulfasalazine, to which ENBREL[®] was added, were noted to develop a mild decrease in mean neutrophil counts in comparison to groups treated with either ENBREL[®] or sulfasalazine alone. The clinical significance of this observation is unknown.

Carcinogenesis, Mutagenesis, and Impairment of Fertility

Long-term animal studies have not been conducted to evaluate the carcinogenic potential of ENBREL[®] or its effect on fertility. Mutagenesis studies were conducted in vitro and in vivo, and no evidence of mutagenic activity was observed.

Pregnancy (Category B)

Developmental toxicity studies have been performed in rats and rabbits at doses ranging from 60- to 100-fold higher than the human dose and have revealed no evidence of harm to the fetus due to ENBREL[®]. There are, however, no studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Pregnancy Registry: To monitor outcomes of pregnant women exposed to ENBREL[®], a pregnancy registry has been established. Physicians are encouraged to register patients by calling 1-877-311-8972.

Nursing Mothers

It is not known whether ENBREL[®] is excreted in human milk or absorbed systemically after ingestion. Because many drugs and immunoglobulins are excreted in human milk, and because of the potential for serious adverse reactions in nursing infants from ENBREL[®], a decision should be made whether to discontinue nursing or to discontinue the drug.

Geriatric Use

A total of 480 RA patients and 89 plaque psoriasis patients ages 65 years or older have been studied in clinical trials. No overall differences in safety or effectiveness were observed between these patients and younger patients. Because there is a higher incidence of infections in the elderly population in general, caution should be used in treating the elderly.

Pediatric Use

ENBREL[®] is indicated for treatment of polyarticular-course juvenile rheumatoid arthritis in patients who have had an inadequate response to one or more DMARDs. For issues relevant to pediatric patients, in addition to other sections of the label, see also **WARNINGS; PRECAUTIONS: Immunizations;** and **ADVERSE REACTIONS: Adverse Reactions in Patients with JRA.** ENBREL[®] has not been studied in children < 2 years of age.

The safety and efficacy of ENBREL[®] in pediatric patients with plaque psoriasis have not been studied.

ADVERSE REACTIONS

Adverse Reactions in Adult Patients with RA, Psoriatic Arthritis, Ankylosing Spondylitis, or Plaque Psoriasis

ENBREL[®] has been studied in 1442 patients with RA, followed for up to 80 months, in 169 patients with psoriatic arthritis for up to 24 months, in 222 patients with ankylosing spondylitis for up to 10 months, and 1261 patients with plaque psoriasis for up to 15 months. In controlled trials, the proportion of ENBREL[®]-treated patients who discontinued treatment due to adverse events was approximately 4% in the indications studied. The vast majority of these patients were treated with 25 mg SC twice weekly. In plaque psoriasis studies, ENBREL[®] doses studied were 25 mg SC once a week, 25 mg SC twice a week, and 50 mg SC twice a week.

Injection Site Reactions

In controlled trials in rheumatologic indications, approximately 37% of patients treated with ENBREL[®] developed injection site reactions. In controlled trials in patients with plaque psoriasis, 14% of patients treated with ENBREL[®] developed injection site reactions during the first 3 months of treatment. All injection site reactions were described as mild to moderate (erythema and/or itching, pain, or swelling) and generally did not necessitate drug discontinuation. Injection site reactions generally occurred in the first month and subsequently decreased in frequency. The mean duration of injection site reactions was 3 to 5 days. Seven percent of patients experienced redness at a previous injection site when subsequent injections were given. In post-marketing experience, injection site bleeding and bruising have also been observed in conjunction with ENBREL[®] therapy.

Infections

In controlled trials, there were no differences in rates of infection among RA, psoriatic arthritis, ankylosing spondylitis, and plaque psoriasis patients treated with ENBREL[®] and those treated with placebo (or MTX for RA and psoriatic arthritis patients). The most common type of infection was upper respiratory infection, which occurred at a rate of approximately 20% among both ENBREL[®]- and placebo-treated patients in RA, psoriatic arthritis, and AS trials, and at a rate of approximately 12% among both ENBREL[®]- and placebo-treated patients in plaque psoriasis trials in the first 3 months of treatment.

In placebo-controlled trials in RA, psoriatic arthritis, ankylosing spondylitis, and plaque psoriasis no increase in the incidence of serious infections was observed (approximately 1% in both placebo- and ENBREL[®]-treated groups). In all clinical trials in RA, serious infections experienced by patients have included: pyelonephritis, bronchitis, septic arthritis, abdominal abscess, cellulitis, osteomyelitis, wound infection, pneumonia, foot abscess, leg ulcer, diarrhea, sinusitis, and sepsis. The rate of serious infections has not increased in open-label extension trials and is similar to that observed in ENBREL[®]- and placebo-treated patients from controlled trials. Serious infections, including sepsis and death, have also been reported during post-marketing use of ENBREL[®]. Some have occurred within a few weeks after initiating treatment with ENBREL[®]. Many of the patients had underlying conditions (e.g., diabetes, congestive heart failure, history of active or chronic infections) in addition to their rheumatoid arthritis (see **WARNINGS**). Data from a sepsis clinical trial not specifically in patients with RA suggest that ENBREL[®] treatment may increase mortality in patients with established sepsis.⁹

In patients who received both ENBREL[®] and anakinra for up to 24 weeks, the incidence of serious infections was 7%. The most common infections consisted of bacterial pneumonia (4 cases) and cellulitis (4 cases). One patient with pulmonary fibrosis and pneumonia died due to respiratory failure.

In post-marketing experience in rheumatologic indications, infections have been observed with various pathogens including viral, bacterial, fungal, and protozoal organisms. Infections have been noted in all organ systems and have been reported in patients receiving ENBREL[®] alone or in combination with immunosuppressive agents.

In clinical trials in plaque psoriasis, serious infections experienced by ENBREL[®]-treated patients have included: cellulitis, gastroenteritis, pneumonia, abscess, and osteomyelitis.

Malignancies

Patients have been observed in clinical trials with ENBREL[®] for over five years. Among 4462 rheumatoid arthritis patients treated with ENBREL[®] in clinical trials for a mean of 27 months (approximately 10000 patient-years of therapy), 9 lymphomas were observed for a rate of 0.09 cases per 100 patient-years. This is 3-fold higher than the rate of lymphomas expected in the general population based on the Surveillance, Epidemiology, and End Results Database.¹⁰ An increased rate of lymphoma up to several fold has been reported in the rheumatoid arthritis patient population, and may be further increased in patients with more severe disease activity^{11, 12} (see **WARNINGS: Malignancies**). Sixty-seven malignancies, other than lymphoma, were observed. Of these, the most common malignancies were colon, breast, lung, and prostate, which were similar in type and

number to what would be expected in the general population.¹⁰ Analysis of the cancer rates at 6 month intervals suggest constant rates over five years of observation.

In the placebo-controlled portions of the psoriasis studies, 8 of 933 patients who received ENBREL[®] at any dose were diagnosed with a malignancy compared to 1 of 414 patients who received placebo. Among the 1261 patients with psoriasis who received ENBREL[®] at any dose in the controlled and uncontrolled portions of the psoriasis studies (1062 patient-years), a total of 22 patients were diagnosed with 23 malignancies; 9 patients with non-cutaneous solid tumors, 12 patients with 13 non-melanoma skin cancers (8 basal, 5 squamous), and 1 patient with non-Hodgkin's lymphoma. Among the placebo-treated patients (90 patient-years of observation) 1 patient was diagnosed with 2 squamous cell cancers. The size of the placebo group and limited duration of the controlled portions of studies precludes the ability to draw firm conclusions.

Among 89 patients with Wegener's granulomatosis receiving ENBREL[®] in a randomized, placebo-controlled trial, 5 experienced a variety of non-cutaneous solid malignancies compared with none receiving placebo (see **WARNINGS: Malignancies**).

Immunogenicity

Patients with RA, psoriatic arthritis, ankylosing spondylitis, or plaque psoriasis were tested at multiple timepoints for antibodies to ENBREL[®]. Antibodies to the TNF receptor portion or other protein components of the ENBREL[®] drug product were detected at least once in sera of approximately 6% of adult patients with RA, psoriatic arthritis, ankylosing spondylitis, or plaque psoriasis. These antibodies were all non-neutralizing. No apparent correlation of antibody development to clinical response or adverse events was observed. Results from JRA patients were similar to those seen in adult RA patients treated with ENBREL[®]. The long-term immunogenicity of ENBREL[®] is unknown.

The data reflect the percentage of patients whose test results were considered positive for antibodies to ENBREL[®] in an ELISA assay, and are highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody positivity in an assay may be influenced by several factors including sample handling, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to ENBREL[®] with the incidence of antibodies to other products may be misleading.

Autoantibodies

Patients with RA had serum samples tested for autoantibodies at multiple timepoints. In RA Studies I and II, the percentage of patients evaluated for antinuclear antibodies (ANA) who developed new positive ANA (titer \geq 1:40) was higher in patients treated with ENBREL[®] (11%) than in placebo-treated patients (5%). The percentage of patients who developed new positive anti-double-stranded DNA antibodies was also higher by radioimmunoassay (15% of patients treated with ENBREL[®] compared to 4% of placebo-treated patients) and by *Crithidia luciliae* assay (3% of patients treated with ENBREL[®] compared to none of placebo-treated patients). The proportion of patients treated with ENBREL[®] who developed anticardiolipin antibodies was similarly increased compared to placebo-treated patients. In Study III, no pattern of increased autoantibody development was seen in ENBREL[®] patients compared to MTX patients.

The impact of long-term treatment with ENBREL[®] on the development of autoimmune diseases is unknown. Rare adverse event reports have described patients with rheumatoid factor positive and/or erosive RA who have developed additional autoantibodies in conjunction with rash and other features suggesting a lupus-like syndrome.

Other Adverse Reactions

Table 10 summarizes events reported in at least 3% of all patients with higher incidence in patients treated with ENBREL[®] compared to controls in placebo-controlled RA trials (including the combination methotrexate trial) and relevant events from Study III. In placebo-controlled plaque psoriasis trials, the percentages of patients reporting injection site reactions were lower in the placebo dose group (6.4%) than in the ENBREL[®] dose groups (15.5%) in Studies I and II. Otherwise, the percentages of patients reporting adverse events in the 50 mg twice a week dose group were similar to those observed in the 25 mg twice a week dose group or placebo group. In psoriasis Study I, there were no serious adverse events of worsening psoriasis following withdrawal of study drug. However, adverse events of worsening psoriasis including three serious adverse events were observed during the course of the clinical trials. Urticaria and non-infectious hepatitis were observed in a small number of patients and angioedema was observed in one patient in clinical studies. Urticaria and angioedema have also been reported in spontaneous post-marketing reports. Adverse events in psoriatic arthritis, ankylosing spondylitis, and plaque psoriasis trials were similar to those reported in RA clinical trials.

**Table 10:
Percent of RA Patients Reporting Adverse Events
in Controlled Clinical Trials***

Event	Placebo Controlled		Active Controlled (Study III)	
	Percent of patients		Percent of patients	
	Placebo [†] (N = 152)	ENBREL [®] (N = 349)	MTX (N = 217)	ENBREL [®] (N = 415)
Injection site reaction	10	37	7	34
Infection (total)**	32	35	72	64
Non-upper respiratory infection (non-URI)**	32	38	60	51
Upper respiratory infection (URI)**	16	29	39	31
Headache	13	17	27	24
Nausea	10	9	29	15
Rhinitis	8	12	14	16
Dizziness	5	7	11	8
Pharyngitis	5	7	9	6
Cough	3	6	6	5
Asthenia	3	5	12	11
Abdominal pain	3	5	10	10
Rash	3	5	23	14
Peripheral edema	3	2	4	8
Respiratory disorder	1	5	NA	NA
Dyspepsia	1	4	10	11
Sinusitis	2	3	3	5
Vomiting	-	3	8	5
Mouth ulcer	1	2	14	6
Alopecia	1	1	12	6
Pneumonitis ("MTX lung")	-	-	2	0

* Includes data from the 6-month study in which patients received concurrent MTX therapy.

† The duration of exposure for patients receiving placebo was less than the ENBREL[®]-treated patients.

** Infection (total) includes data from all three placebo-controlled trials. Non-URI and URI include data only from the two placebo-controlled trials where infections were collected separately from adverse events (placebo N = 110, ENBREL[®] N = 213).

In controlled trials of RA and psoriatic arthritis, rates of serious adverse events were seen at a frequency of approximately 5% among ENBREL[®]- and control-treated patients. In controlled trials of plaque psoriasis, rates of serious adverse events were seen at a frequency of < 1.5% among ENBREL[®]- and placebo-treated patients in the first 3 months of treatment. Among patients with RA in placebo-controlled, active-controlled, and open-label trials of ENBREL[®], malignancies (see **WARNINGS: Malignancies, ADVERSE REACTIONS: Malignancies**) and infections (see **ADVERSE REACTIONS: Infections**) were the most common serious adverse events observed. Other infrequent serious adverse events observed in RA, psoriatic arthritis, ankylosing spondylitis, or plaque psoriasis clinical trials are listed by body system below:

Cardiovascular:	heart failure, myocardial infarction, myocardial ischemia, hypertension, hypotension, deep vein thrombosis, thrombophlebitis
Digestive:	cholecystitis, pancreatitis, gastrointestinal hemorrhage, appendicitis
Hematologic/Lymphatic:	lymphadenopathy
Musculoskeletal:	bursitis, polymyositis
Nervous:	cerebral ischemia, depression, multiple sclerosis (see WARNINGS: Neurologic Events)
Respiratory:	dyspnea, pulmonary embolism, sarcoidosis
Skin:	worsening psoriasis
Urogenital:	membranous glomerulonephropathy, kidney calculus

In a randomized controlled trial in which 51 patients with RA received ENBREL[®] 50 mg twice weekly and 25 patients received ENBREL[®] 25 mg twice weekly, the following serious adverse events were observed in the 50 mg twice weekly arm: gastrointestinal bleeding, normal pressure hydrocephalus, seizure, and stroke. No serious adverse events were observed in the 25 mg arm.

Adverse Reactions in Patients with JRA

In general, the adverse events in pediatric patients were similar in frequency and type as those seen in adult patients (see **WARNINGS** and other sections under **ADVERSE REACTIONS**). Differences from adults and other special considerations are discussed in the following paragraphs.

Severe adverse reactions reported in 69 JRA patients ages 4 to 17 years included varicella (see also **PRECAUTIONS: Immunizations**), gastroenteritis, depression/personality disorder, cutaneous ulcer, esophagitis/gastritis, group A streptococcal septic shock, Type 1 diabetes mellitus, and soft tissue and post-operative wound infection.

Forty-three of 69 (62%) children with JRA experienced an infection while receiving ENBREL[®] during three months of study (part 1 open-label), and the frequency and severity of infections was similar in 58 patients completing 12 months of open-label extension therapy. The types of infections reported in JRA patients were generally mild and consistent with those commonly seen in outpatient pediatric populations. Two JRA patients developed varicella infection and signs and symptoms of aseptic meningitis which resolved without sequelae.

The following adverse events were reported more commonly in 69 JRA patients receiving 3 months of ENBREL[®] compared to the 349 adult RA patients in placebo-controlled trials. These included headache (19% of patients, 1.7 events per patient-year), nausea (9%, 1.0 events per patient-year), abdominal pain (19%, 0.74 events per patient-year), and vomiting (13%, 0.74 events per patient-year).

In open-label clinical studies of children with JRA, adverse events reported in those aged 2 to 4 years were similar to adverse events reported in older children.

In post-marketing experience, the following additional serious adverse events have been reported in pediatric patients: abscess with bacteremia, optic neuritis, pancytopenia, seizures, tuberculous arthritis, urinary tract infection (see **WARNINGS**), coagulopathy, cutaneous vasculitis, and transaminase elevations. The frequency of these events and their causal relationship to ENBREL[®] therapy are unknown.

Patients with Heart Failure

Two randomized placebo-controlled studies have been performed in patients with CHF. In one study, patients received either ENBREL[®] 25 mg twice weekly, 25 mg three times weekly, or placebo. In a second study, patients received either ENBREL[®] 25 mg once weekly, 25 mg twice weekly, or placebo. Results of the first study suggested higher mortality in patients treated with ENBREL[®] at either schedule compared to placebo. Results of the second study did not corroborate these observations. Analyses did not identify specific factors associated with increased risk of adverse outcomes in heart failure patients treated with ENBREL[®] (see **PRECAUTIONS: Patients with Heart Failure**).

Adverse Reaction Information from Spontaneous Reports

Adverse events have been reported during post-approval use of ENBREL[®]. Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to ENBREL[®] exposure.

Additional adverse events are listed by body system below:

Body as a whole:	angioedema, fatigue, fever, flu syndrome, generalized pain, weight gain
Cardiovascular:	chest pain, vasodilation (flushing), new-onset congestive heart failure (see PRECAUTIONS: Patients with Heart Failure)
Digestive:	altered sense of taste, anorexia, diarrhea, dry mouth, intestinal perforation

Hematologic/Lymphatic:	adenopathy, anemia, aplastic anemia, leukopenia, neutropenia, pancytopenia, thrombocytopenia (see WARNINGS)
Hepatobiliary:	autoimmune hepatitis
Musculoskeletal:	joint pain, lupus-like syndrome with manifestations including rash consistent with subacute or discoid lupus
Nervous:	paresthesias, stroke, seizures and central nervous system events suggestive of multiple sclerosis or isolated demyelinating conditions such as transverse myelitis or optic neuritis (see WARNINGS)
Ocular:	dry eyes, ocular inflammation
Respiratory:	dyspnea, interstitial lung disease, pulmonary disease, worsening of prior lung disorder
Skin:	cutaneous vasculitis, pruritus, subcutaneous nodules, urticaria

OVERDOSAGE

The maximum tolerated dose of ENBREL[®] has not been established in humans. Toxicology studies have been performed in monkeys at doses up to 30 times the human dose with no evidence of dose-limiting toxicities. No dose-limiting toxicities have been observed during clinical trials of ENBREL[®]. Single IV doses up to 60 mg/m² have been administered to healthy volunteers in an endotoxemia study without evidence of dose-limiting toxicities.

DOSAGE AND ADMINISTRATION

General

A 50 mg dose should be given as one subcutaneous (SC) injection using either a 50 mg single-use prefilled syringe or a single-use prefilled SureClick[™] autoinjector. A 50 mg dose can also be given as two 25 mg SC injections using 25 mg single-use prefilled syringes or multiple-use vials.

When administering ENBREL[®] as two injections in adults or children, the injections should be given either on the same day or 3 or 4 days apart (see **CLINICAL STUDIES**).

Sites for injection (thigh, abdomen, or upper arm) should be rotated. Never inject into areas where the skin is tender, bruised, red, or hard. See the ENBREL[®] (etanercept) "Patient Information" insert for detailed information on injection site selection and dose administration.

Adult RA, AS, and Psoriatic Arthritis Patients

The recommended dose of ENBREL[®] for adult patients with rheumatoid arthritis, psoriatic arthritis, or ankylosing spondylitis is 50 mg per week. Methotrexate, glucocorticoids, salicylates, nonsteroidal anti-inflammatory drugs (NSAIDs), or analgesics may be continued during treatment with ENBREL[®]. Based on a study of 50 mg ENBREL[®] twice weekly in patients with RA that suggested higher incidence of adverse reactions but similar ACR response rates, doses higher than 50 mg per week are not recommended (see **ADVERSE REACTIONS**).

Adult Plaque Psoriasis Patients

The recommended starting dose of ENBREL[®] for adult patients is a 50 mg dose given twice weekly (administered 3 or 4 days apart) for 3 months followed by a reduction to a maintenance dose of 50 mg per week (see **CLINICAL STUDIES**).

Starting doses of ENBREL[®] of 25 mg or 50 mg per week were also shown to be efficacious. The proportion of responders were related to ENBREL[®] dosage (see **CLINICAL STUDIES**).

JRA Patients

The recommended dose of ENBREL[®] for pediatric patients ages 4 to 17 years with active polyarticular-course JRA is 0.8 mg/kg per week (up to a maximum of 50 mg per week). The 25 mg prefilled syringe is not recommended for pediatric patients weighing less than 31 kg (68 pounds). The 50 mg prefilled syringe or SureClick[™] autoinjector may be used for pediatric patients weighing 63 kg (138 pounds) or more. Glucocorticoids, nonsteroidal anti-inflammatory drugs (NSAIDs), or analgesics may be continued during treatment with ENBREL[®]. Concurrent use with methotrexate and higher doses of ENBREL[®] have not been studied in pediatric patients.

Preparation of ENBREL[®]

ENBREL[®] is intended for use under the guidance and supervision of a physician. Patients may self-inject when deemed appropriate and if they receive medical follow-up, as necessary. Patients should not self-administer until they receive proper training in how to prepare and administer the correct dose.

The ENBREL[®] (etanercept) "Patient Information" insert contains more detailed instructions on the preparation of ENBREL[®].

Preparation of ENBREL[®] Using the Single-use Prefilled Syringe:

Before injection, ENBREL[®] may be allowed to reach room temperature (approximately 15 to 30 minutes). DO NOT remove the needle cover while allowing the prefilled syringe to reach room temperature.

Prior to administration, visually inspect the solution for particulate matter and discoloration. There may be small white particles of protein in the solution. This is not unusual for proteinaceous solutions. The solution should not be used if discolored or cloudy, or if foreign particulate matter is present. Check to see if the amount of liquid in the prefilled syringe falls between the two purple fill level indicator lines on the syringe. If the syringe does not have the right amount of liquid, DO NOT USE THAT SYRINGE.

Preparation of ENBREL[®] Using the Single-use Prefilled SureClick[™] Autoinjector:

Before injection, ENBREL[®] may be allowed to reach room temperature (approximately 15 to 30 minutes). DO NOT remove the needle shield while allowing the SureClick[™] autoinjector to reach room temperature.

Prior to administration, visually inspect the solution for particulate matter and discoloration. There may be small white particles of protein in the solution. This is not unusual for proteinaceous

solutions. The solution should not be used if discolored or cloudy, or if foreign particulate matter is present.

Preparation of ENBREL[®] Using the Multiple-use Vial:

ENBREL[®] should be reconstituted aseptically with 1 mL of the supplied Sterile Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol) giving a solution of 1.0 mL containing 25 mg of ENBREL[®].

A vial adapter is supplied for use when reconstituting the lyophilized powder. However, the vial adapter should not be used if multiple doses are going to be withdrawn from the vial. If the vial will be used for multiple doses, a 25-gauge needle should be used for reconstituting and withdrawing ENBREL[®], and the supplied "Mixing Date:" sticker should be attached to the vial and the date of reconstitution entered. Reconstitution with the supplied BWFI, using a 25-gauge needle, yields a preserved, multiple-use solution that must be used within 14 days.

If using the vial adapter, twist the vial adapter onto the diluent syringe. Then, place the vial adapter over the ENBREL[®] vial and insert the vial adapter into the vial stopper. Push down on the plunger to inject the diluent into the ENBREL[®] vial. It is normal for some foaming to occur. Keeping the diluent syringe in place, gently swirl the contents of the ENBREL[®] vial during dissolution. To avoid excessive foaming, do not shake or vigorously agitate.

If using a 25-gauge needle to reconstitute and withdraw ENBREL[®], the diluent should be injected very slowly into the ENBREL[®] vial. It is normal for some foaming to occur. The contents should be swirled gently during dissolution. To avoid excessive foaming, do not shake or vigorously agitate.

Generally, dissolution of ENBREL[®] takes less than 10 minutes. Visually inspect the solution for particulate matter and discoloration prior to administration. The solution should not be used if discolored or cloudy, or if particulate matter remains.

Withdraw the correct dose of reconstituted solution into the syringe. Some foam or bubbles may remain in the vial. Remove the syringe from the vial adapter or remove the 25-gauge needle from the syringe. Attach a 27-gauge needle to inject ENBREL[®].

The contents of one vial of ENBREL[®] solution should not be mixed with, or transferred into, the contents of another vial of ENBREL[®]. No other medications should be added to solutions containing ENBREL[®], and do not reconstitute ENBREL[®] with other diluents. Do not filter reconstituted solution during preparation or administration.

Reconstitution with the supplied BWFI, using a 25-gauge needle, yields a preserved, multiple-use solution that must be used within 14 days. Discard reconstituted solution after 14 days.

PRODUCT STABILITY AND STERILITY CANNOT BE ASSURED AFTER 14 DAYS.

Storage and Stability

ENBREL[®] Single-use Prefilled Syringe and ENBREL[®] Single-use Prefilled SureClick[™]

Autoinjector: Do not use ENBREL[®] beyond the expiration date stamped on the carton or barrel label. ENBREL[®] must be refrigerated at 2° to 8°C (36° to 46°F). DO NOT FREEZE. Keep the product in the original carton to protect from light until the time of use. Do not shake.

ENBREL® Multiple-use Vial: Do not use a dose tray beyond the expiration date stamped on the carton, dose tray label, vial label, or diluent syringe label. The dose tray containing ENBREL® (sterile powder) must be refrigerated at 2° to 8°C (36° to 46°F). **DO NOT FREEZE.**

Reconstituted solutions of ENBREL® prepared with the supplied Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol), using a 25-gauge needle, may be stored for up to 14 days if refrigerated at 2° to 8°C (36° to 46°F). Discard reconstituted solution after 14 days. **PRODUCT STABILITY AND STERILITY CANNOT BE ASSURED AFTER 14 DAYS.**

HOW SUPPLIED

Each ENBREL® single-use prefilled syringe and ENBREL® single-use prefilled SureClick™ autoinjector contains 50 mg/mL of etanercept in a single-dose syringe with a 27-gauge, ½-inch needle.

25 mg single-use prefilled syringe	Carton of 4	NDC 58406-455-04
50 mg single-use prefilled syringe	Carton of 4	NDC 58406-435-04
50 mg single-use prefilled SureClick™ autoinjector	Carton of 4	NDC 58406-445-04

ENBREL® multiple-use vial is supplied in a carton containing four dose trays. Each dose tray contains one 25 mg vial of etanercept, one diluent syringe (1 mL Sterile Bacteriostatic Water for Injection, USP, containing 0.9% benzyl alcohol), one 27-gauge ½-inch needle, one vial adapter, one plunger, and two alcohol swabs. Each carton contains four “Mixing Date:” stickers.

25 mg multiple-use vial	Carton of 4	NDC 58406-425-34
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Administration of one 50 mg ENBREL® prefilled syringe or one ENBREL® SureClick™ autoinjector provides a dose equivalent to two 25 mg ENBREL® prefilled syringes or two multiple-use vials of lyophilized ENBREL®, when vials are reconstituted and administered as recommended.

Rx Only

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AMGEN[®]

Wyeth[®]

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Patient Information
ENBREL[®] (en-brel)
(etanercept)
Single-use Prefilled Syringe

Read the Patient Information that comes with ENBREL[®] *Single-use Prefilled Syringe* before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or treatment with ENBREL[®].

What is the most important information I should know about ENBREL[®]?

ENBREL[®] is a medicine that affects your immune system. ENBREL[®] can lower the ability of your immune system to fight infections. Serious infections, including tuberculosis (TB), have happened in patients taking ENBREL[®]. Some patients have died from these serious infections.

Before starting ENBREL[®], tell your doctor if you:

- think you have an infection
- are being treated for an infection
- have signs of an infection, such as a fever, cough, flu-like symptoms
- have any open sores on your body
- get a lot of infections or have infections that keep coming back
- have diabetes or an immune system problem. People with these conditions have a higher chance for infections.
- have tuberculosis (TB), or if you have been in close contact with someone who has had tuberculosis
- use the medicine Kineret[®] (anakinra)
- have or have had hepatitis B

After starting ENBREL[®], if you get an infection, any sign of an infection including a fever, cough, flu-like symptoms, or have any open sores on your body, call your doctor right away.

ENBREL[®] can make you more likely to get infections or make any infection that you may have worse.

What is ENBREL[®]?

ENBREL[®] is a medicine called a Tumor Necrosis Factor (TNF) blocker. ENBREL[®] is used in adults to treat:

- **moderately to severely active rheumatoid arthritis (RA).** ENBREL[®] can be used alone or with a medicine called methotrexate.
- **psoriatic arthritis.** ENBREL[®] can be used with methotrexate in patients who have not responded well to methotrexate alone.
- **ankylosing spondylitis (AS)**
- **chronic, moderate to severe psoriasis**

ENBREL[®] is used in children with **moderately to severely active polyarticular-course juvenile rheumatoid arthritis (JRA)** after one or more JRA medicines have been used and not worked well.

ENBREL[®] can help reduce joint damage, and the signs and symptoms of the above mentioned diseases. People with these diseases have too much protein called tumor necrosis factor (TNF), which is made by your immune system. ENBREL[®] can reduce the amount of TNF in the body to normal levels and block the damage that too much TNF can cause, but it can also lower the ability of your immune system to fight infections. See “What is the most important information I should know about ENBREL[®]?” and “What are the possible side effects of ENBREL[®]?”

Who should not use ENBREL[®]?

Do not use ENBREL[®] if you:

- have an infection that has spread through your body (sepsis)
- have ever had an allergic reaction to ENBREL[®]

What should you tell your doctor before starting ENBREL[®]?

ENBREL[®] may not be right for you. Before starting ENBREL[®], tell your doctor about all of your health conditions, including if you:

- **have an infection.** (See “What is the most important information I should know about ENBREL[®]?”)
- **have seizures, any numbness or tingling, or a disease that affects your nervous system such as multiple sclerosis**
- **have heart failure**
- **are scheduled to have surgery**
- **are scheduled for any vaccines.** All vaccines should be brought up-to-date before starting ENBREL[®]. Patients taking ENBREL[®] should not receive live vaccines.
- **are allergic to rubber or latex.** The needle cover on the single-use prefilled syringe contains latex.

Tell your doctor if you are pregnant, planning to become pregnant, or breastfeeding. ENBREL[®] has not been studied in pregnant women or nursing mothers.

Pregnancy Registry: Amgen has a registry for pregnant women exposed to ENBREL[®]. The purpose of this registry is to check the health of the pregnant mother and her child. Patients are encouraged to contact the registry themselves or ask their doctors to contact the registry for them by calling 1-877-311-8972.

Tell your doctor about all the medicines you take including prescription and nonprescription medicines, vitamins and herbal supplements. Your doctor will tell you if it is okay to take your other medicines while taking ENBREL[®]. Especially, tell your doctor if you take:

- Kineret[®] (anakinra). You have a higher chance for serious infections when taking ENBREL[®] with Kineret[®].
- cyclophosphamide. You may have a higher chance for getting certain cancers when taking ENBREL[®] with cyclophosphamide.

Know the medicines you take. Keep a list of them to show your doctor and pharmacist each time you get a new medicine.

How should I use ENBREL[®]?

See the section, “**How do I prepare and give an injection with ENBREL[®] Single-use Prefilled Syringe?**” at the end of this leaflet for complete instructions for use.

There are 2 types of ENBREL[®] single-use prefilled syringes:

- **The 50 mg single-use prefilled syringe that contains one 50 mg dose of ENBREL[®].**
- **The 25 mg single-use prefilled syringe that contains one 25 mg dose of ENBREL[®].**

Your doctor will tell you which one to use.

- ENBREL[®] is given by injection under the skin
- A 50 mg dose can be given as one injection using a 50 mg single-use prefilled syringe or as two injections using 25 mg single-use prefilled syringes. Your doctor will tell you whether the two injections with 25 mg single-use prefilled syringes should be given on the same day once a week or on two different days (3 or 4 days apart) in the same week.
- Make sure you have been shown how to inject ENBREL[®] before you do it yourself. Someone you know can also help you with your injection.
- Your doctor will tell you how often you should use ENBREL[®]. This is based on your condition to be treated. **Do not use ENBREL[®] more often than prescribed.**
- Do not miss any doses of ENBREL[®]. **Call your doctor if you miss a dose of ENBREL[®]. Your doctor will tell you when to take your missed dose.**

Children must weigh at least 138 pounds to use the ENBREL[®] 50 mg single-use prefilled syringe. Children who weigh less than 138 pounds should use a different form of ENBREL[®]. The ENBREL[®] 25 mg single-use prefilled syringe should not be used in pediatric patients weighing less than 68 pounds.

- Your child's weekly dose of ENBREL[®] depends on his or her weight. Your child's doctor will tell you which form of ENBREL[®] to use and how much to give your child.
- ENBREL[®] has not been studied in children under 2 years of age

What are the possible side effects of ENBREL[®]?

Serious side effects have happened in people taking ENBREL[®], including:

- **Serious Infections.** See "What is the most important information I should know about ENBREL[®]?"
- **Nervous system problems** such as Multiple Sclerosis, seizures, or inflammation of the nerves of the eyes have occurred in rare cases. Symptoms include numbness or tingling, problems with your vision, weakness in your arms and legs, and dizziness.
- **Blood problems.** In rare cases, your body may not make enough of the blood cells that help fight infections or help stop bleeding. This can lead to death. Symptoms include a fever that doesn't go away, bruising or bleeding very easily, or looking very pale.
- **Heart failure including new heart failure or worsening of heart failure you already have.** Symptoms include shortness of breath or swelling of your ankles and feet.
- **Allergic reactions.** Signs of an allergic reaction include a severe rash, a swollen face, or trouble breathing.
- **Immune reactions including a lupus-like syndrome.** Symptoms include a rash on your face and arms that gets worse in the sun. Symptoms may go away when you stop taking ENBREL[®].
- **Lymphoma (a type of cancer).** People with rheumatoid arthritis or psoriasis may have a higher chance for getting lymphoma.

Call your doctor right away if you develop any of the above symptoms.

Common side effects of ENBREL[®] include:

- **Injection site reactions** such as redness, rash, swelling, itching, or bruising. These symptoms usually go away within 3 to 5 days. If you have pain, redness or swelling around the injection site that doesn't go away or gets worse, call your doctor.
- **Upper respiratory infections** (sinus infections)
- **Headaches**

These are not all the side effects with ENBREL[®]. Ask your doctor or pharmacist for more information.

How should I store ENBREL[®] Single-use Prefilled Syringe?

- Store ENBREL[®] single-use prefilled syringes in the refrigerator at 36° to 46°F (2° to 8°C).
- **Do not freeze.** Keep ENBREL[®] in the original carton to protect from light.
- **Keep ENBREL[®] and all medicines out of the reach of children.**

General Information about ENBREL[®]

Medicines are sometimes prescribed for purposes not mentioned in a Patient Information leaflet. Do not use ENBREL[®] for a condition for which it was not prescribed. Do not give ENBREL[®] to other people, even if they have the same condition. It may harm them and it is against the law.

This leaflet summarizes the most important information about ENBREL[®]. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about ENBREL[®] that was written for healthcare professionals. For more information call 1-888-4ENBREL (1-888-436-2735).

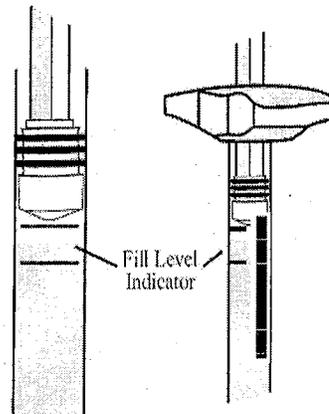
How do I prepare and give an injection with ENBREL[®] Single-use Prefilled Syringe?

IMPORTANT: The needle cover on the single-use prefilled syringe contains latex. Tell your doctor if you are allergic to latex.

STEP 1: Setting Up for an Injection

1. Select a clean, well-lit, flat work surface, such as a table.
2. Take the ENBREL[®] carton containing the prefilled syringes out of the refrigerator and place it on your flat work surface. Remove one prefilled syringe and place it on your work surface. Do not shake the prefilled syringe of ENBREL[®]. Place the carton containing any remaining prefilled syringes back into the refrigerator (2° to 8°C [36° to 46°F]). If you have any questions about storage, contact your doctor, nurse, or pharmacist for further instructions.
3. Check the expiration date on the prefilled syringe. If the expiration date has passed, do not use the prefilled syringe and contact your pharmacist or call 1-888-4ENBREL (1-888-436-2735) for assistance.
4. Wait 15 to 30 minutes to allow the ENBREL[®] in the prefilled syringe to reach room temperature. **DO NOT** remove the needle cover while allowing it to reach room temperature. Do not warm ENBREL[®] in any other way (for example, do not warm it in a microwave or in hot water).

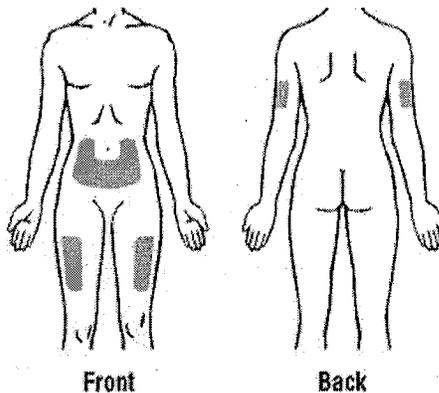
5. Hold the prefilled syringe with the covered needle pointing down. If bubbles are seen in the syringe, very gently tap the prefilled syringe to allow any bubbles to rise to the top of the syringe. Turn the syringe so that the purple horizontal lines on the barrel are directly facing you. Check to see if the amount of liquid in the syringe falls between the purple lines. The top of the liquid may be curved. If the syringe does not have the right amount of liquid, **DO NOT USE THAT SYRINGE**. Contact your pharmacist or call 1-888-4ENBREL (1-888-436-2735) for assistance.



6. Assemble the additional supplies you will need for your injection. These include an alcohol swab, a cotton ball or gauze, and a puncture-resistant disposal container.
7. Wash your hands with soap and warm water.
8. Make sure the solution in the prefilled syringe is clear and colorless. You may notice small white particles in the solution. These particles are formed from ENBREL[®] and this is acceptable. However, **do not inject the solution if it is cloudy or discolored, or contains large or colored particles** – contact your pharmacist or call 1-888-4ENBREL (1-888-436-2735) for assistance.

STEP 2: Choosing and Preparing an Injection Site

1. Three recommended injection sites for ENBREL[®] using a prefilled syringe include: (1) the front of the middle thighs; (2) the abdomen, except for the two-inch area right around the navel; and, (3) the outer area of the upper arms.



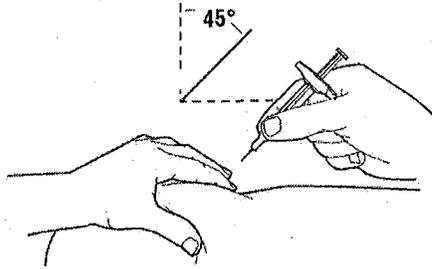
2. Rotate the site for each injection. Do not inject into areas where the skin is tender, bruised, red, or hard. Avoid areas with scars or stretch marks.
3. If you have psoriasis, you should try not to inject directly into any raised, thick, red, or scaly skin patches (“psoriasis skin lesions”).
4. To prepare the area of skin where ENBREL[®] is to be injected, wipe the injection site with an alcohol swab. **Do not touch this area again before giving the injection.**

STEP 3: Injecting ENBREL[®] Using a Prefilled Syringe

1. Pick up the prefilled syringe from your flat work surface. Hold the barrel of the prefilled syringe with one hand and pull the needle cover straight off.

When you remove the needle cover, there may be a drop of liquid at the end of the needle; this is normal. Do not touch the needle or allow it to touch any surface. Do not touch or bump the plunger. Doing so could cause the liquid to leak out.

2. Holding the syringe with the needle pointing up, check the syringe for air bubbles. If there are bubbles, gently tap the syringe with your finger until the air bubbles rise to the top of the syringe. Slowly push the plunger up to force the air bubbles out of the syringe.
3. Holding the syringe in one hand like a pencil, use the other hand to gently pinch a fold of skin at the cleaned injection site and hold it firmly.
4. Insert the needle at a slight angle (45 degrees) to the skin. With a quick, “dart-like” motion, insert the needle into the skin.



5. After the needle is inserted, let go of the skin. Pull the plunger back slightly. If blood comes into the syringe, do not inject ENBREL[®] because the needle has entered a blood vessel. Withdraw the needle and discard it in a puncture-resistant container. Repeat the steps to prepare for an injection using a new prefilled syringe of ENBREL[®]. Do not use the same prefilled syringe.
6. If no blood appears in the syringe, slowly push the plunger all the way down to inject ENBREL[®].
7. When the syringe is empty, pull the needle out of the skin, being careful to keep it at the same angle as inserted. There may be a little bleeding at the injection site. You can press a cotton ball or gauze over the injection site for 10 seconds. Do not rub the injection site. If needed, you may cover the injection site with a bandage.

STEP 4: Disposing of Supplies

The syringe should **NEVER** be reused. **NEVER** recap a needle.

Dispose of the used syringe as instructed by your healthcare provider, or by following these steps:

- Do not throw the used syringe in the household trash or recycle.
- Place the used syringe in a hard plastic disposal container with a screw-on cap or a metal container with a plastic lid, such as a coffee can, labeled “used syringes.” If a metal container is used, cut a small hole in the plastic lid and tape the lid to the metal container. If a hard plastic container is used, always screw the cap on tightly after each use. Do not use glass or clear plastic containers. Puncture-resistant containers may also be purchased at your local pharmacy.
- When the container is full, tape around the cap or lid to make sure the cap or lid does not come off.
- You should always check first with your healthcare provider for instructions on how to properly dispose of a filled disposal container. There may be special state and local laws for disposing of used needles and syringes. **Do not throw the disposal container in household trash. Do not recycle.**

- Always keep the container out of the reach of children.

What are the ingredients in ENBREL[®] Single-use Prefilled Syringe?

Active Ingredient: etanercept

Inactive Ingredients: sucrose, sodium chloride, L-arginine hydrochloride, sodium phosphate monobasic monohydrate, sodium phosphate dibasic anhydrous

A healthcare provider familiar with ENBREL[®] should answer all questions. A toll-free information service is also available: 1-888-4ENBREL (1-888-436-2735).

AMGEN[®]
Wyeth[®]

Manufactured by:
Immunex Corporation,
Thousand Oaks, CA 91320-1799
Marketed by Amgen and Wyeth Pharmaceuticals

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Patient Information
ENBREL[®] (en-brel)
(etanercept)
Single-use Prefilled SureClick[™] Autoinjector

Read the Patient Information that comes with ENBREL[®] *Single-use Prefilled SureClick[™] Autoinjector* before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or treatment with ENBREL[®].

What is the most important information I should know about ENBREL[®]?

ENBREL[®] is a medicine that affects your immune system. ENBREL[®] can lower the ability of your immune system to fight infections. Serious infections, including tuberculosis (TB), have happened in patients taking ENBREL[®]. Some patients have died from these serious infections.

Before starting ENBREL[®], tell your doctor if you:

- think you have an infection
- are being treated for an infection
- have signs of an infection, such as a fever, cough, flu-like symptoms
- have any open sores on your body
- get a lot of infections or have infections that keep coming back
- have diabetes or an immune system problem. People with these conditions have a higher chance for infections.
- have tuberculosis (TB), or if you have been in close contact with someone who has had tuberculosis
- use the medicine Kineret[®] (anakinra)
- have or have had hepatitis B

After starting ENBREL[®], if you get an infection, any sign of an infection including a fever, cough, flu-like symptoms, or have any open sores on your body, call your doctor right away.

ENBREL[®] can make you more likely to get infections or make any infection that you may have worse.

What is ENBREL[®]?

ENBREL[®] is a medicine called a Tumor Necrosis Factor (TNF) blocker. ENBREL[®] is used in adults to treat:

- **moderately to severely active rheumatoid arthritis (RA).** ENBREL[®] can be used alone or with a medicine called methotrexate.

- **psoriatic arthritis.** ENBREL[®] can be used with methotrexate in patients who have not responded well to methotrexate alone.
- **ankylosing spondylitis (AS)**
- **chronic, moderate to severe psoriasis**

ENBREL[®] is used in children with **moderately to severely active polyarticular-course juvenile rheumatoid arthritis (JRA)** after one or more JRA medicines have been used and not worked well.

ENBREL[®] can help reduce joint damage, and the signs and symptoms of the above mentioned diseases. People with these diseases have too much protein called tumor necrosis factor (TNF), which is made by your immune system. ENBREL[®] can reduce the amount of TNF in the body to normal levels and block the damage that too much TNF can cause, but it can also lower the ability of your immune system to fight infections. See “What is the most important information I should know about ENBREL[®]?” and “What are the possible side effects of ENBREL[®]?”

Children must weigh at least 138 pounds to use ENBREL[®] single-use prefilled Sureclick[™] autoinjector. Children who weigh less than 138 pounds should use a different form of ENBREL[®].

ENBREL[®] has not been studied in children under 2 years of age.

Who should not use ENBREL[®]?

Do not use ENBREL[®] if you:

- have an infection that has spread through your body (sepsis)
- have ever had an allergic reaction to ENBREL[®]

What should you tell your doctor before starting ENBREL[®]?

ENBREL[®] may not be right for you. Before starting ENBREL[®], tell your doctor about all of your health conditions, including if you:

- **have an infection.** (See “What is the most important information I should know about ENBREL[®]?”)
- **have seizures, any numbness or tingling, or a disease that affects your nervous system such as multiple sclerosis**
- **have heart failure**
- **are scheduled to have surgery**
- **are scheduled for any vaccines.** All vaccines should be brought up-to-date before starting ENBREL[®]. Patients taking ENBREL[®] should not receive live vaccines.
- **are allergic to rubber or latex.** The needle shield on the single-use prefilled SureClick[™] autoinjector contains latex.

Tell your doctor if you are pregnant, planning to become pregnant, or breastfeeding. ENBREL[®] has not been studied in pregnant women or nursing mothers.

Pregnancy Registry: Amgen has a registry for pregnant women exposed to ENBREL[®]. The purpose of this registry is to check the health of the pregnant mother and her child. Patients are encouraged to contact the registry themselves or ask their doctors to contact the registry for them by calling 1-877-311-8972.

Tell your doctor about all the medicines you take including prescription and nonprescription medicines, vitamins and herbal supplements. Your doctor will tell you if it is okay to take your other medicines while taking ENBREL[®]. Especially, tell your doctor if you take:

- Kineret[®] (anakinra). You have a higher chance for serious infections when taking ENBREL[®] with Kineret[®].
- cyclophosphamide. You may have a higher chance for getting certain cancers when taking ENBREL[®] with cyclophosphamide.

Know the medicines you take. Keep a list of them to show your doctor and pharmacist each time you get a new medicine.

How should I use ENBREL[®]?

See the section, “**How do I prepare and give an injection with ENBREL[®] Single-use Prefilled SureClick[™] Autoinjector?**” at the end of this leaflet for complete instructions for use.

- **A single-use prefilled SureClick[™] autoinjector contains one 50 mg dose of ENBREL[®].**
- ENBREL[®] is given by injection under the skin.
- Make sure you have been shown how to inject ENBREL[®] before you do it yourself. Someone you know can also help you with your injection.
- Your doctor will tell you how often you should use ENBREL[®]. This is based on your condition to be treated. **Do not use ENBREL[®] more often than prescribed.**
- Your child’s weekly dose of ENBREL[®] depends on his or her weight. Your child’s doctor will tell you which form of ENBREL[®] to use and how much to give your child.
- Do not miss any doses of ENBREL[®]. **Call your doctor if you miss a dose of ENBREL[®]. Your doctor will tell you when to take your missed dose.**

What are the possible side effects of ENBREL®?

Serious side effects have happened in people taking ENBREL®, including:

- **Serious Infections.** See “What is the most important information I should know about ENBREL®?”
- **Nervous system problems** such as Multiple Sclerosis, seizures, or inflammation of the nerves of the eyes have occurred in rare cases. Symptoms include numbness or tingling, problems with your vision, weakness in your arms and legs, and dizziness.
- **Blood problems.** In rare cases, your body may not make enough of the blood cells that help fight infections or help stop bleeding. This can lead to death. Symptoms include a fever that doesn’t go away, bruising or bleeding very easily, or looking very pale.
- **Heart failure including new heart failure or worsening of heart failure you already have.** Symptoms include shortness of breath or swelling of your ankles and feet.
- **Allergic reactions.** Signs of an allergic reaction include a severe rash, a swollen face, or trouble breathing.
- **Immune reactions including a lupus-like syndrome.** Symptoms include a rash on your face and arms that gets worse in the sun. Symptoms may go away when you stop taking ENBREL®.
- **Lymphoma (a type of cancer).** People with rheumatoid arthritis or psoriasis may have a higher chance for getting lymphoma.

Call your doctor right away if you develop any of the above symptoms.

Common side effects of ENBREL® include:

- **Injection site reactions** such as redness, rash, swelling, itching, or bruising. These symptoms usually go away within 3 to 5 days. If you have pain, redness or swelling around the injection site that doesn’t go away or gets worse, call your doctor.
- **Upper respiratory infections** (sinus infections)
- **Headaches**

These are not all the side effects with ENBREL®. Ask your doctor or pharmacist for more information.

How should I store ENBREL® Single-use Prefilled SureClick™ Autoinjector?

- Store ENBREL® single-use prefilled SureClick™ autoinjector in the refrigerator at 36° to 46° F (2° to 8° C).

- **Do not freeze.** Keep ENBREL[®] in the original carton to protect from light.
- **Keep ENBREL[®] and all medicines out of the reach of children.**

General Information about ENBREL[®]

Medicines are sometimes prescribed for purposes not mentioned in a Patient Information leaflet. Do not use ENBREL[®] for a condition for which it was not prescribed. Do not give ENBREL[®] to other people, even if they have the same condition. It may harm them and it is against the law.

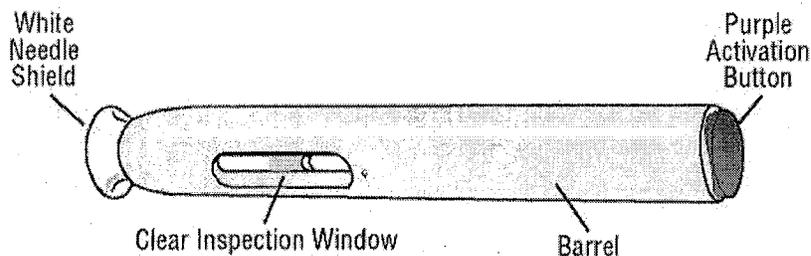
This leaflet summarizes the most important information about ENBREL[®]. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about ENBREL[®] that was written for healthcare professionals. For more information call 1-888-4ENBREL (1-888-436-2735).

How do I prepare and give an injection with ENBREL[®] Single-use Prefilled SureClick[™] Autoinjector?

IMPORTANT: The needle shield on the single-use prefilled SureClick[™] autoinjector contains latex. Tell your doctor if you are allergic to latex.

Setting Up for an Injection

- Remove one single-use prefilled SureClick[™] autoinjector from the carton. Do not shake the autoinjector. Place the carton containing any remaining autoinjectors back into the refrigerator (2° to 8°C [36° to 46°F]). Do not freeze. If you have any questions about storage, contact your doctor, nurse, or pharmacist for further instructions.

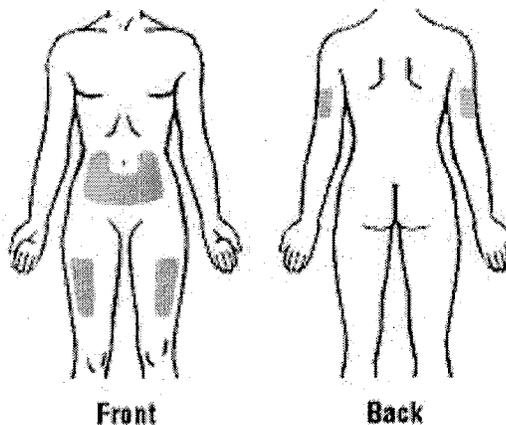


- Make sure the solution in the autoinjector is clear and colorless by looking through the inspection window. You may notice small white particles in the solution. These particles are formed from ENBREL[®] and this is acceptable. However, **do not inject the solution if it is cloudy or discolored, or contains large or colored particles** – contact your pharmacist or call 1-888-4ENBREL (1-888-436-2735) for assistance.

- Check the expiration date on the autoinjector. If the expiration date has passed, do not use the autoinjector and contact your pharmacist or call 1-888-4ENBREL (1-888-436-2735) for assistance.
- **DO NOT** remove the white needle shield from the autoinjector until you are ready to inject. **NEVER** recap the needle.
- For a more comfortable injection, wait 15 to 30 minutes to allow the autoinjector to reach room temperature. **DO NOT** remove the white needle shield while allowing it to reach room temperature. Do not warm ENBREL[®] in any other way (for example, do not warm it in a microwave or in hot water).
- Assemble the additional supplies you will need for your injection. These include an alcohol swab and a cotton ball or gauze. Ensure that you have a puncture-resistant disposal container available (see “Disposing of Supplies” section). Wash your hands with soap and warm water.

Choosing and Preparing an Injection Site

- The recommended injection site for ENBREL[®] using a SureClick[™] autoinjector is the front of the middle thighs. You can also use the abdomen, except for the two-inch area right around the navel. If someone else is giving you the injection, you can use the outer area of the upper arms.

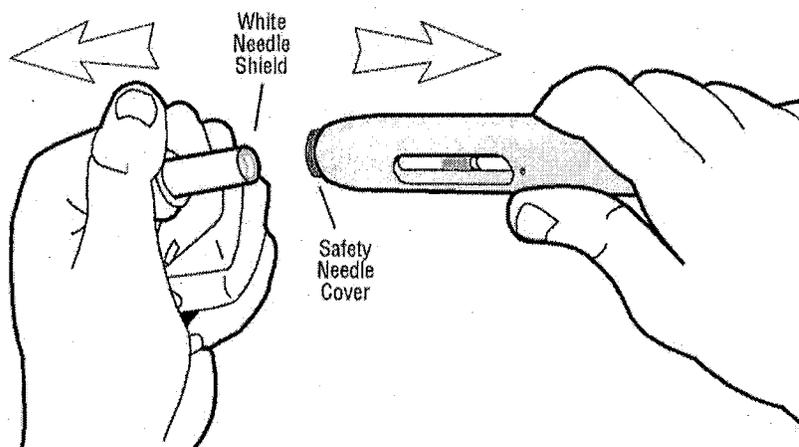


- Rotate the site for each injection. Do not inject into areas where the skin is tender, bruised, red, or hard. Avoid areas with scars or stretch marks.
- If you have psoriasis, you should try not to inject directly into any raised, thick, red, or scaly skin patches or lesions.

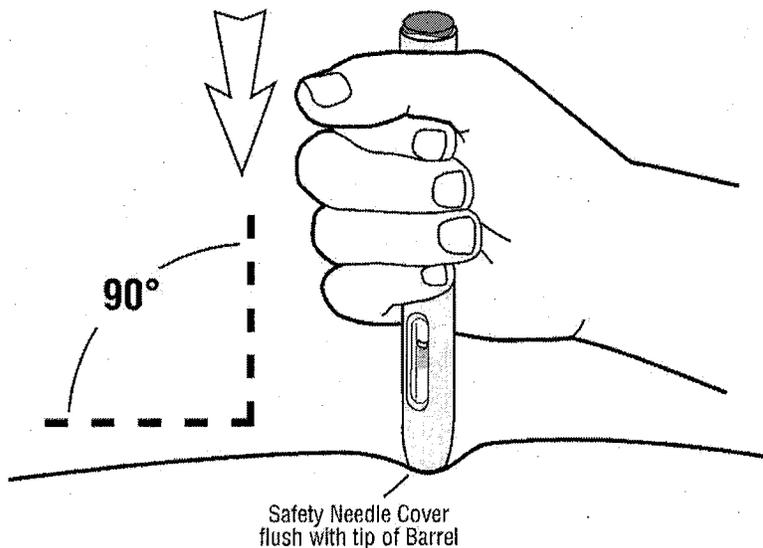
- To prepare the area of skin where ENBREL[®] is to be injected, wipe the injection site with an alcohol swab. **Do not touch this area again before giving the injection.**

Injecting ENBREL[®] Using a Single-use Prefilled SureClick[™] Autoinjector

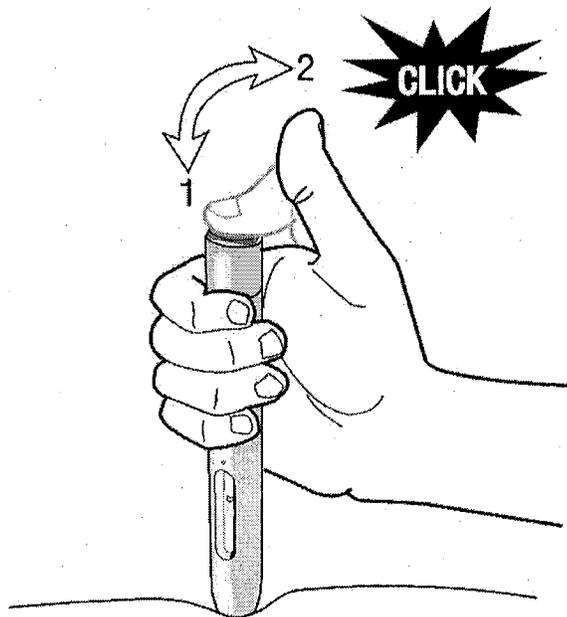
1. Pick up the SureClick[™] autoinjector and pull the white needle shield straight off. Do not twist it off, and do not recap the white needle shield, as either of these may damage the needle inside the autoinjector.



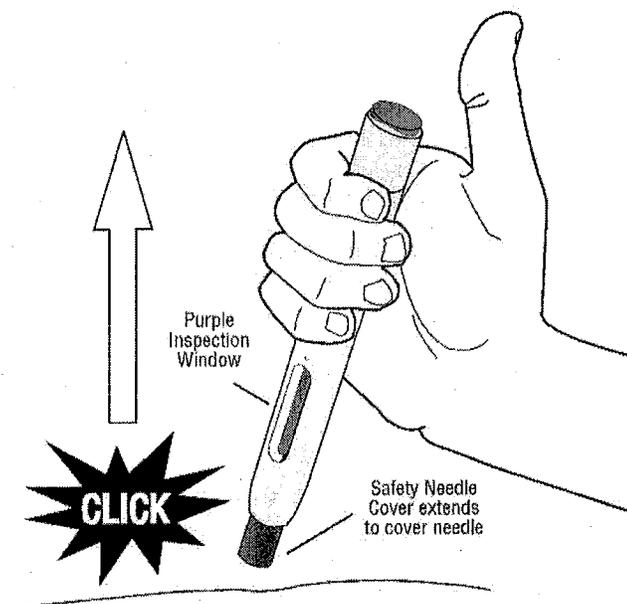
2. **Without** pressing the purple button, place the open end of the autoinjector on the injection site at a right angle (90°) and push the safety needle cover firmly against the skin to unlock. **Continue to hold down.**



3. To start the injection, press once and release the purple button on top. You will hear the first 'click.' **Do not lift** the autoinjector.



4. **After the second 'click'** (or a count of 15 seconds) the injection is complete. Once you hear the second click, lift the autoinjector from the injection site. The safety needle cover on the autoinjector will automatically extend to cover the needle.



After Injection

- Check to make sure the autoinjector's inspection window is purple. A purple inspection window indicates that the autoinjector has worked properly. If the inspection window is not purple, do not try to use the autoinjector again. Call 1-888-4ENBREL (1-888-436-2735).
- There may be a little bleeding at the injection site. You can press a cotton ball or gauze over the injection site for 10 seconds. Do not rub the injection site. If needed, you may cover the injection site with a bandage.

Disposing of Supplies

The SureClick™ autoinjector should **NEVER** be reused.

Dispose of the used autoinjector as instructed by your healthcare provider, or by following these steps:

- Do not throw the used autoinjector in the household trash or recycle.
- Place the used autoinjector in a hard plastic disposal container with a screw-on cap or a metal container with a plastic lid, such as a coffee can, labeled "used syringes." If a metal container is used, cut a small hole in the plastic lid and tape the lid to the metal container. If a hard plastic container is used, always screw the cap on tightly after each use. Do not use glass or clear plastic containers. Puncture-resistant containers may also be purchased at your local pharmacy.
- When the container is full, tape around the cap or lid to make sure the cap or lid does not come off.
- You should always check first with your healthcare provider for instructions on how to properly dispose of a filled disposal container. There may be special state and local laws for disposing of used needles and syringes, including autoinjectors. **Do not throw the disposal container in household trash. Do not recycle.**
- **Always** keep the container out of the reach of children.

What are the ingredients in ENBREL® Single-use Prefilled SureClick™ Autoinjector?

Active Ingredient: etanercept

Inactive Ingredients: sucrose, sodium chloride, L-arginine hydrochloride, sodium phosphate monobasic monohydrate, sodium phosphate dibasic anhydrous

A healthcare provider familiar with ENBREL[®] should answer all questions. A toll-free information service is also available: 1-888-4ENBREL (1-888-436-2735).



Manufactured by:
Immunex Corporation,
Thousand Oaks, CA 91320-1799
Marketed by Amgen and Wyeth Pharmaceuticals

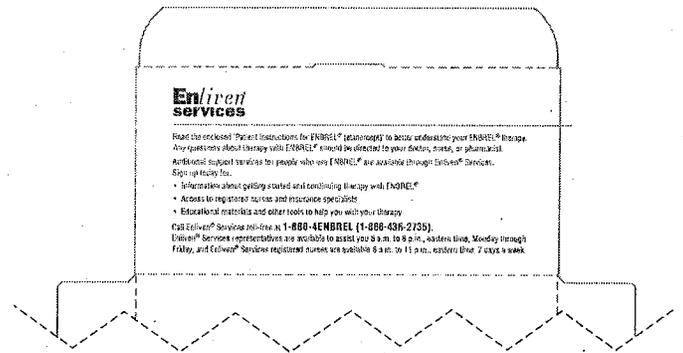
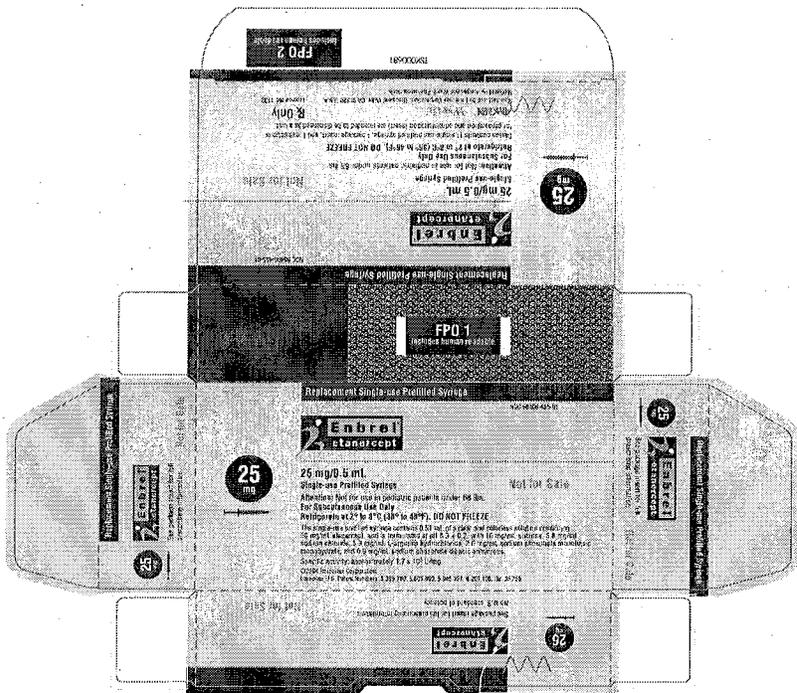
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inside top cover

Refrigerate at 2° to 8°C

NDC 58406-455-01

Exp. Lot

Enbrel®
etanercept

Single-use
Prefilled Syringe
For Subcutaneous
Use Only

25 mg/0.5 mL (0.51 mL)

U.S. License No. 1132
Immunex Corporation, Thousand Oaks, CA 91320

FPO 1

Refrigerate at 2° to 8°C

NDC 58406-455-01

Exp. Lot

Enbrel®
etanercept

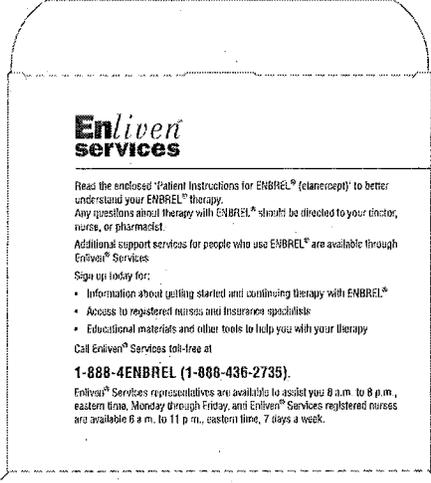
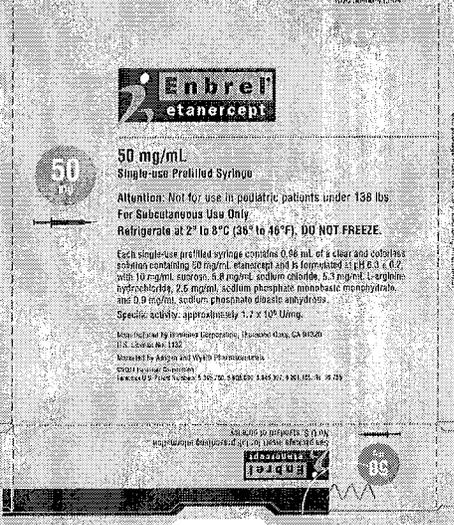
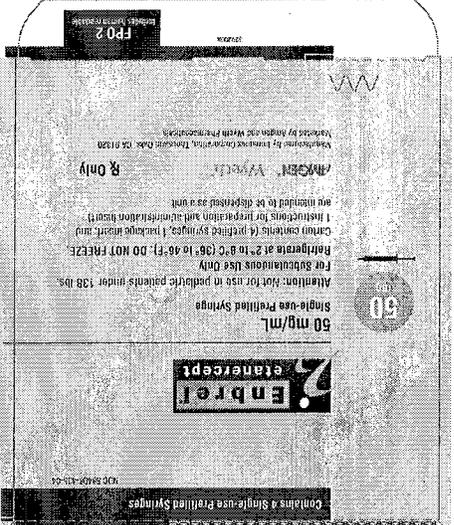
Single-use
Prefilled Syringe
For Subcutaneous
Use Only

25 mg/0.5 mL (0.51 mL)

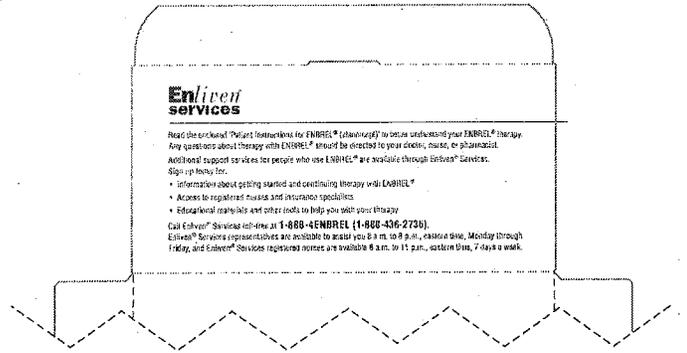
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Immunex Corporation, Thousand Oaks, CA 91320

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Inside top cover



Inside top cover

**Enliveit
services**

Read the enclosed Patient Instructions for ENBREL® (etanercept) to learn understand your ENBREL® therapy. Any questions about therapy with ENBREL® should be directed to your doctor, nurse, or pharmacist. Additional support services for people who use ENBREL® are available through Enliveit® Services. Sign up today for:

- Information about getting started and continuing therapy with ENBREL®
- Access to registered nurses and insurance specialists
- Educational materials and other tools to help you with your therapy

Call Enliveit® Services toll-free at **1-888-4ENBREL (1-888-436-2736)**. Enliveit® Services representatives are available to assist you 8 a.m. to 8 p.m., eastern time, Monday through Friday, and Enliveit® Services registered nurses are available 8 a.m. to 4 p.m., eastern time, 7 days a week.