1 METRONIDAZOLE (500mg/100mL solution for infusion)

2 QUALITATIVE AND QUANTITATIVE COMPOSITION
Each mL contains the active ingredient metronidazole B.P. 5mg.

Baxter’s Metronidazole intravenous (IV) solution for infusion contains 500mg/100mL metronidazole.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM
Solution for infusion.

Appearance
Metronidazole is an almost colourless to pale yellow, ready to use solution for intravenous infusion.

Metronidazole intravenous (IV) solution for infusion, it has a pH of between 4.5 and 6.0.

4 CLINICAL PARTICULARS
4.1 Therapeutic indications
Metronidazole intravenous (IV) solution for infusion is indicated:
1. For treatment of anaerobic infections in patients for whom oral administration is not possible.
2. When immediate anti-anaerobic chemotherapy is required.
3. Where prophylactic cover is required at lower abdominal surgical sites presumed contaminated or potentially contaminated by anaerobic micro-organisms. Procedures of this type include appendicectomy, colonic surgery, vaginal hysterectomy, abdominal surgery in the presence of anaerobes in the peritoneal cavity and surgery performed in the presence of anaerobic septicaemia.

Note: Metronidazole is inactive against aerobic or facultative anaerobic bacteria.

4.2 Dose and method of administration
A maximum of 4g should not be exceeded in a 24-hour period. For prophylactic use, the appropriate dose should be infused shortly before surgery and repeated every eight hours for the next 24 hours. Dosages should be decreased in patients with severe hepatic disease; plasma metronidazole levels should be monitored. In elderly patients, the pharmacokinetics of metronidazole may be altered; therefore, monitoring of serum levels may be necessary to adjust the metronidazole dosage accordingly.

Metronidazole solution for infusion should be infused intravenously at a rate of 5mL (25mg) per minute. Metronidazole solution for infusion may be administered alone or concurrently (but separately) with other bacteriologically appropriate parenteral antibacterial agents. Other IV medicines or infusions should, if possible, be discontinued during its administration. While the solution should be protected from direct sunlight during administration, exposure to fluorescent light for short periods will not result in its degradation.

Dosage
Adults and children over 12 years
Metronidazole solution for infusion contains 500mg metronidazole in 100mL and should be given by intravenous infusion every eight hours.
Children under 12 years
As for adults, but a single intravenous dose is based on 1.5mL (7.5mg metronidazole)/kg body weight.

Elderly
Use the adult dose with care. As some degree of hepatic or renal impairment may be present.

If dilution is necessary, hold at 2° to 8°C for not more than 24 hours to reduce microbiological hazard.

Contains no antimicrobial preservative. Product is for use in one patient on one occasion only. Discard any residue.

Duration of therapy
Treatment for seven days should be satisfactory for most patients but, depending upon clinical and bacteriological assessment, the clinician may decide to prolong treatment, e.g. for the eradication of infection from sites which cannot be drained or are prone to endogenous recontamination by anaerobic pathogens from the gut, nasopharynx or the female genital tract. Oral metronidazole should be substituted as soon as possible.

Administration
One dose in one patient only. Discard any remaining contents

Do not use plastic infusion bags in series connections. This practice could result in air embolism due to air being drawn from the primary container before administration of the fluid from the secondary container is complete.

Notes: Prevention of infection at the surgical site requires adequate tissue concentration of the medicine being attained at the time of surgery. The dose and route of administration should be selected in each case to achieve this objective.

Although metronidazole has been used in children for some years, recent evidence concerning mutagenicity and tumorigenicity suggests caution be exercised when using metronidazole in this age group.

In infants and other patients maintained on intravenous infusions, Metronidazole may be diluted 1 in 5 or greater with isotonic intravenous infusions (Sodium Chloride 0.9%, Glucose-saline combinations, Glucose 5%) but not Sodium Lactate Compound (Hartmann’s) Infusion or Sodium Chloride Compound (Ringer’s) Infusion.

Compatibility with intravenous infusions and other drugs
Metronidazole solution for infusion may be diluted to 1 in 5 or greater with appropriate volumes of Sodium Chloride 0.9%, Glucose-Saline combinations, Glucose 5% or Potassium Chloride injections 20mmol/L and 40mmol/L. While physically compatible with Compound Sodium Lactate Infusion (Hartmann’s Solution) and Compound Sodium Chloride Infusion (Ringer’s Solution), metronidazole is not chemically compatible with them over extended periods of time. Therefore addition of Metronidazole solution for infusion to these solutions is not recommended. However, it may be delivered through the administration set Y-site of fast-running infusions of Hartmann’s or Ringer’s Solutions. While Glucose 10% is compatible with Metronidazole solution for infusion, its use as a diluent and vehicle is not recommended because of the high osmolarity of the resulting solution. If dilution is necessary, the resultant solution should be held at 2° to 8°C for no longer than 24 hours.
4.3 Contraindications

Metronidazole solution for infusion is contraindicated:

1. In patients with evidence of or a history of blood dyscrasias. (Occasionally a mild leukopenia has been observed during administration; however no persistent haematological abnormalities have been observed in animals or clinical studies.)
2. In the presence of active organic disease of the central nervous system.
3. In patients who are hypersensitive to metronidazole or other nitroimidazoles or any of the excipients (see Section 6.1).

4.4 Special warnings and precautions for use

Central and peripheral nervous system effects

Metronidazole should be used with caution in patients with active or chronic severe peripheral or central nervous system diseases due to the risk of neurological damage. Patients should be warned about the potential for confusion, dizziness, hallucinations, convulsions or transient visual disorders.

Cases of encephalopathy and peripheral neuropathy (including optic neuropathy) have been reported with metronidazole. Encephalopathy has been reported in association with cerebellar toxicity characterised by ataxia, dizziness and dysarthria. CNS symptoms are generally reversible within days to a week upon discontinuation of metronidazole.

Peripheral neuropathy, mainly of sensory type has been reported and is characterised by numbness or paraesthesia of the extremities.

Convulsive seizures have been reported in patients treated with metronidazole.

Aseptic meningitis

Cases of aseptic meningitis have been reported with metronidazole. Symptoms can occur within hours of dose administration and generally resolve after discontinuation of the metronidazole therapy.

The appearance of abnormal neurological signs demands the prompt evaluation of the benefit/risk ratio of the continuation of therapy.

Candidiasis

Fungal overgrowth of the gastrointestinal or genital tract may occur during the metronidazole therapy and require treatment with a candicidal medicine.

Long term therapy

If metronidazole is administered for more than ten days, it is recommended that haematological tests, especially total and differential leucocyte counts, be carried out regularly and that patients be monitored for adverse reactions such as peripheral neuropathy. If leukopenia or abnormal neurological signs occur, the medicine should be discontinued immediately.

Surgical drainage

Use of metronidazole does not obviate the need for drainage of pus whenever indicated such as in amoebic liver abscess or abscess in other accessible positions.

Sodium retention

Administration of solutions containing sodium ions may result in sodium retention. Care should be taken when administering Metronidazole solution for infusion to patients receiving corticosteroids or patients predisposed to oedema. See Section 4.5.
**Cardiac function Impairment**
Care should be taken because of the sodium content (approximately 0.135 mmol/mL) in this dosage form.

**Pseudomembranous colitis**
Pseudomembranous colitis associated with the administration of metronidazole has been reported.

**Ototoxicity**
A number of cases of deafness associated with the use of metronidazole have been reported.

**History of blood dyscrasia:**
Metronidazole is a nitroimidazole and should be used with care in patients with evidence of or a history of blood dyscrasia. A mild leucopenia has been observed during its administration however no persistent haematological abnormalities attributable to metronidazole have been observed in clinical studies. Total and differential leukocytes counts are recommended before and after therapy.

**Hepatic impairment**
Since metronidazole is mainly metabolised by hepatic oxidation, accumulation of metronidazole and its metabolites in plasma is likely in patients with severely impaired hepatic function. Metronidazole should therefore be administered with cautions and at reduced doses to patients with severe hepatic impairment.

**Renal impairment**
In patients being haemodialysed twice weekly, metronidazole and its major metabolite are rapidly removed during an eight-hour period of dialysis, so that the plasma concentration quickly falls below the therapeutic range. Hence a further dose of metronidazole would be needed after dialysis to restore an adequate plasma concentration. In patients with renal failure, the half-life of metronidazole is unchanged, but those of its major metabolites are prolonged 4-fold or greater. The accumulation of the 2-hydroxymethyl metabolite could be associated with side effects and measurement of its plasma concentration by high pressure liquid chromatography (HPLC) has been recommended.

In the absence of haemodialysis, the plasma clearance and elimination half-life of metronidazole are equivalent to those in patients with normal renal clearance so dosage adjustment is not necessary.

While the pharmacokinetics of metronidazole are little changed in the anuric patient, the metabolites are retained; the clinical significance of this is unknown.

**Use in the elderly**
See Section 4.2.

**Paediatric use**
No data available

**Laboratory tests**
Metronidazole may interfere with AST (SGOT), ALT (SGPT), LDH, triglycerides, or glucose determinations when these are based on the decrease in ultraviolet absorbance which occurs when NADH is oxidised to NAD. Metronidazole interferes with these assays because the drug has an absorbance peak of 322nm at pH 7 which is close to the 340nm absorbance peak of NADH; this causes an increase in absorbance at 340nm resulting in falsely decreased values.
Instructions to be given to the patient

1. Patients, especially pregnant women, should be warned to refrain from alcohol whilst taking metronidazole.
2. Patients should be advised to report any signs of toxicity, especially neurological disturbances, to their doctor.
3. Patients should be warned about the possibility of their urine darkening in colour.

4.5 Interaction with other medicines and other forms of interaction

Warfarin and other coumarin anticoagulants

Oral or IV metronidazole potentiates the effects of oral anticoagulants resulting in prolongation of prothrombin time; concurrent administration should be avoided if possible. If metronidazole is used in patients receiving an oral anticoagulant, prothrombin times should be monitored and the dosage of the anticoagulant adjusted accordingly.

Alcohol

Metronidazole appears to inhibit alcohol dehydrogenase and other alcohol oxidising enzymes. Mild disulfiram-like reactions including flushing, headache, nausea, vomiting, abdominal cramps and sweating have occurred in patients ingesting alcohol while being treated with metronidazole.

Patients should be advised not to take alcohol during therapy or for at least one day afterwards because of the possibility of a disulfiram-like reaction.

Disulfiram

Administration of disulfiram with metronidazole has been associated with acute psychoses and confusion in some patients; therefore the two medicines should not be administered concurrently. Metronidazole should not be given to patients who have taken disulfiram within the last two weeks.

Phenobarbital and Phenytoin

The simultaneous administration of medicines which induce microsomal liver enzyme activity, such as phenobarbital, pentobarbital and phenytoin may accelerate the elimination of metronidazole, resulting in reduced plasma concentrations and increased concentrations of its 2-hydroxymethyl metabolite; impaired clearance of phenytoin has also been reported.

Lithium

Initiation of short-term metronidazole therapy in patients stabilised on relatively high dosage of lithium has been reported to increase serum lithium concentrations, resulting in signs of lithium toxicity in several patients. Serum lithium and serum creatinine levels should be obtained several days after commencing metronidazole therapy to detect any increase that may precede clinical symptoms of lithium intoxication.

Cimetidine

Simultaneous administration of medicines that decrease microsomal liver enzyme activity, such as cimetidine, may prolong the half-life and decrease the plasma clearance of metronidazole. It is not clear if ranitidine exerts a similar effect.

Corticosteroids

Care should be taken when administering metronidazole infusion to patients receiving corticosteroid therapy or to patients predisposed to oedema since administration of solutions containing sodium ions may result in sodium retention.
**Cyclophosphamide and carmustine (BCNU)**
Metronidazole should be used with caution in patients who are receiving cyclophosphamide or
carmustine as a medicine interactions demonstrated in mice leads to increased toxicity.

**Cyclosporin**
There is a risk of cyclosporin serum levels increasing when it is used in combination with
metronidazole. Serum cyclosporin and serum creatinine should be closely monitored when co-
administration is necessary.

**Fluorouracil and azathioprine**
Transient neutropenia has been reported in 12 patients who received oral and IV metronidazole in
conjunction with IV fluorouracil and in at least one patient who received oral metronidazole in
conjunction with azathioprine.

**5-flourouracil**
Metronidazole used in combination with 5-fluorouracil may lead to reduced clearance of 5-
flourouracil, resulting in increased toxicity.

See also Section 4.2/Compatibility with intravenous infusions and other drugs and Section 6.2 for
incompatibilities.

### 4.6 Fertility, pregnancy and lactation

**Fertility**
There are no clinical data relating to the effect of metronidazole on fertility.

**Use in pregnancy (Category B2)**
Metronidazole should not be given in the first trimester of pregnancy since it crosses the placenta and
rapidly enters the foetal circulation. Although it has not been shown to be teratogenic in either
human or animal studies, such a possibility cannot be excluded.

Use of metronidazole for trichomoniasis in the second and third trimesters should be restricted to
those in whom local palliative treatment has been inadequate to control symptoms.

Medicines which have been taken by only a limited number of pregnant women and women of
childbearing age, without an increase in the frequency of malformation or other direct or indirect
harmful effects on the human foetus having been observed. Studies in animals are inadequate or
may be lacking, but available data show no evidence of an increased occurrence of foetal damage.

**Breast-feeding**
Metronidazole is secreted in breast milk. In view of the tumorigenic and mutagenic potential,
breastfeeding is not recommended.

### 4.7 Effects on ability to drive and use machines

Patients should be warned about the potential for confusion, dizziness, hallucinations, convulsions or
transient visual disorders and advised not to drive or use machinery if these symptoms occur.

### 4.8 Undesirable effects

When administered intravenously, metronidazole is well tolerated.

**Gastrointestinal**
The most common adverse reactions have involved the gastrointestinal tract and include vomiting,
diarrhoea, epigastric distress and abdominal cramping; constipation and oral mucositis. A metallic,
sharp unpleasant taste is not unusual. Furry tongue, glossitis and stomatitis have occurred; these may be associated with Candida overgrowth. Proliferation of Candida may also occur in the vagina.

Rare cases of pancreatitis, abating on withdrawal of the medicine, have been reported.

There have been a number of reports both in overseas literature of cases of pseudomembranous colitis whilst on metronidazole therapy.

**Haematological**
Reversible thrombocytopenia and thrombophlebitis has been reported rarely. Very rare cases of bone marrow aplasia, agranulocytosis and neutropenia have been reported.

**Neurological**
The most serious adverse reactions in patients treated with metronidazole injection have been convulsive seizures, encephalopathy, aseptic meningitis, optic and peripheral neuropathy. Lack of coordination and ataxia have been reported. Confusion, irritability, depression, weakness, and insomnia have been experienced as has peripheral neuropathy, characterised mainly by numbness or paresthesia of an extremity. Since persistent peripheral neuropathy has been reported in some patients receiving prolonged metronidazole therapy, such subjects should be specifically warned about these reports and told to stop the medicine and report immediately if any neurological symptoms occur. Headache, dizziness, syncope and dysarthria have also been reported. Transient vision disorders such as diplopia and myopia have been reported.

**Psychiatric disorders**
Psychotic reactions have been reported in alcoholic patients receiving metronidazole and disulfiram concurrently. Metronidazole should not be given to patients who have taken disulfiram in the previous two weeks.

**Hepatic disorders**
Very rare cases of reversible abnormal liver function tests and cholestatic hepatitis have been reported.

**Auditory and vestibular**
Dizziness, vertigo, and tinnitus have been reported.

**Dermatological**
Erythematous rash and pruritus.

**Hypersensitivity**
Urticaria, erythematous rash, Stevens-Johnson Syndrome, flushing, nasal congestion, dryness of mouth (or vagina or vulva), fever, angiooedema and rare anaphylactic shock have been reported.

**Musculo-skeletal**
Fleeting joint pains sometimes resembling "serum sickness" have been reported.

**Urogenital**
Dysuria, cystitis and a sense of pelvic pressure have been reported. Very rarely, dyspareunia, fever, polyuria, incontinence, decrease in libido, proctitis and pyuria have occurred in patients receiving the medicine. Instances of darkened urine have been reported and this manifestation has been the subject of investigation. Although the pigment which is probably responsible for this phenomenon has not been positively identified, it almost certainly is a metabolite of metronidazole. It seems
certain that it is of no clinical significance and may be encountered only when metronidazole is
administered in higher than recommended doses.

**Cardiac**
Flattening of the T-wave and prolongation of the QT interval may be seen in ECG tracings.

**Reporting of suspected adverse reactions**
Reporting suspected adverse reactions after authorisation of the medicine is important. It allows
continuing monitoring of the benefit/risk balance of the medicine. Healthcare professionals are asked
to report any suspected adverse reactions https://nzphv.otago.ac.nz/reporting/

4.9 Overdose
Overdosage with metronidazole appears to be associated with very few abnormal signs or symptoms.
Disorientation and vomiting may occur, especially after ingestion of large amounts.

For advice on the management of overdose please contact the National Poisons Centre on phone
number: 0800 764 766 [0800 POISON] in New Zealand (or 131126 in Australia).

5 PHARMACOLOGICAL PROPERTIES
5.1 Pharmacodynamic properties

**Pharmacotherapeutic group**

| Anticancerals for systemic use: imidazole derivatives | J01XD01 |
| and | |

**Pharmacotherapeutic group**

| Antiparasitic: nitroimidazole derivatives | P01AB01 |

**Classification of activity**
Metronidazole is a nitroimidazole anti-infective agent which has specific activity against a number of
obligate anaerobic organisms and protozoa.

**Microbiology**
Metronidazole is bactericidal in vitro against many anaerobic gram-negative bacilli including
*Bacteroides fragilis* and other *Bacteroides* species; also other species including *Fusobacterium*. The
medicine is effective against many anaerobic gram-positive bacilli including *Clostridium* species,
*Eubacterium*, and anaerobic *Streptococcus*. The MIC for susceptible anaerobes is
< 6.2 micrograms/mL. Serum levels higher than this are achieved at the recommended doses.

Metronidazole is also active against a wide range of pathogenic protozoa including *Trichomonas
vaginalis* and other trichomonads, *Entamoeba histolytica*, *Giardia lamblia*, *Balantidium coli* and the
causative organisms of acute ulcerative gingivitis.

Metronidazole is ineffective against both aerobic and facultative anaerobic bacteria.

**Susceptibility tests**
Dilution or diffusion techniques, either quantitative (MIC) or break method, should be used following a
regularly updated, recognised and standardised method (e.g. NCCLS). Standardised susceptibility test
procedures require the use of laboratory control micro-organisms to control the technical aspects of
the laboratory procedures.
A report of “Susceptible” indicates that the pathogen is likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable. A report of “Intermediate” indicates that the result should be considered equivocal, and if the micro-organism is not fully susceptible to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicability in body sites where the drug is physiologically concentrated or in situations where high dosage of drug can be used. This category also provides a buffer zone, which prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of “Resistant” indicates that the pathogen is not likely to be inhibited if the antimicrobial compound in the blood reaches the concentrations usually achievable; other therapy should be selected.

Note: The prevalence of resistance may vary geographically for selected species and local information on resistance is desirable, particularly when treating severe infections.

**Mechanism of action**
Metronidazole is bactericidal, amoebicidal and trichomoncidal. The exact mode of action has not been fully elucidated. Metronidazole is reduced by low-redox-potential electron transfer proteins (e.g. nitro-reductases such as ferredoxin) to unidentified polar product(s) which lack the nitro group. The reduction product(s) appears to be responsible for the cytotoxic and antimicrobial effects of the medicine which include disruption of DNA and inhibition of nucleic acid synthesis.

**Physiochemical properties**
Metronidazole is a white or yellowish crystalline powder with melting point 159-162°C. Solubility in water at 20°C is 1g/100mL; in ethyl alcohol, 0.5g/100mL; in chloroform, 0.4g/100mL; slightly soluble in ether and soluble in dilute acids.

**Chemical structure**

![Chemical structure of metronidazole](image)

**Chemical name**
2-(2-Methyl-5-nitro-1H-imidazol-1-yl) ethanol

**Molecular Formula**
C₆H₉N₃O₃

**Molecular weight**
171.2

**CAS number**
443-48-1

**5.2 Pharmacokinetic properties**

**Bioavailability**
For both oral and intravenous administration, the area under the plasma clearance curve is equivalent.

**Absorption**
Maximum plasma concentrations occur at the conclusion of the infusion after intravenous administration. Traces are detected after 24 hours. The biological half-life of a single intravenously administered dose of metronidazole has been determined as 7.3 hours ± 1.0 hours.
**Distribution**
Metronidazole is widely distributed in body tissues and fluids. It diffuses across the blood-brain barrier, crosses the placenta and appears in the saliva and breast milk of nursing mothers in concentrations equivalent to those found in the plasma. It attains therapeutic concentrations in the bile and the CSF.

**Plasma protein binding**
Metronidazole is not significantly bound to plasma protein.

**Metabolism**
An oral or intravenous dose of metronidazole is partially metabolised in the liver by hydroxylation, acid side-chain oxidation and glucuronide conjugation. The major metabolite, 2-hydroxymethyl metronidazole, has some antiprotozoal activity *in vitro*.

**Excretion**
Approximately three-fourths of a single 750mg oral dose is excreted as nitro-containing compounds (unchanged medicine and its metabolites) in the urine within 5 days. Most of the remainder is excreted in the faeces. Urine may be dark or reddish brown in colour following oral and IV administration of the medicine due to the presence of water-soluble pigments, which result from its metabolism.

Note: Polarographic estimation of metronidazole in serum or urine tends to give higher values than microbiological assay because the former measures unchanged drug and metabolites, erroneously high serum values may be obtained in the presence of severe renal failure because of the retention of metabolites in the blood.

5.3 Preclinical safety data

**Mutagenicity, tumorigenicity**
In studies on the mutagenic potential of metronidazole, the Ames mutagenicity test was positive, while several nonbacterial tests in animals were negative. In patients suffering from Crohn's Disease, metronidazole increased chromosome abnormalities. In addition, the medicine has been shown to be tumorigenic in rodents. The benefit/risks should, therefore, be carefully assessed in each case particularly in relation to the severity of the disease and the age of the patient.

**Genotoxicity**
No data available

**Carcinogenicity**
Metronidazole has been shown to be carcinogenic in rats and mice. Its use therefore should be reserved for the conditions listed in the indications section.

Metronidazole has shown evidence of tumorigenic activity in a number of studies involving chronic oral administration in mice and rats. Most prominent among the effects in the mouse was the promotion of pulmonary tumorigenesis. This has been observed in multiple studies, including one in which the animals were dosed on an intermittent schedule (every fourth week only). The results of one of the mouse studies indicates a statistically significant increase in the incidence of malignant lymphomas as well as pulmonary neoplasms associated with lifetime feeding.

In the rat, there was a statistically significant increase in the incidence of various neoplasms, particularly mammary tumours, among females fed metronidazole on a lifetime basis, over that observed in concurrent female control groups.
Two lifetime tumorigenicity studies have been performed in hamsters; in both cases the results were negative.

A retrospective study of 771 women treated with metronidazole for *Trichomonas vaginalis* has revealed no statistically significant increase in cancer incidence over that expected in the normal population. An apparent increase in the incidence of cervical carcinoma observed in the metronidazole-treated group was no different from the incidence observed in women documented to have had trichomoniasis not treated by metronidazole.

### 6 PHARMACEUTICAL PARTICULARS

#### 6.1 List of excipients

<table>
<thead>
<tr>
<th>Excipients</th>
<th>Concentration</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid monohydrate</td>
<td>0.44mg/mL</td>
<td>(equivalent to 40mg/mL citric acid)</td>
</tr>
<tr>
<td>Dibasic sodium phosphate dodecahydrate</td>
<td>1.5mg/mL</td>
<td>(equivalent to 0.595mg/mL dibasic sodium phosphate)</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7.4mg/mL</td>
<td></td>
</tr>
<tr>
<td>Water for injections</td>
<td>q.s. to 1mL</td>
<td></td>
</tr>
</tbody>
</table>

Each mL contains approximately 0.135mmol of sodium.

#### 6.2 Incompatibilities

Metronidazole solution for infusion is incompatible with aluminium; do not use equipment containing aluminium components (e.g., needle or cannula hubs). Other medicines should not be added directly to Metronidazole solution for infusion.

#### 6.3 Shelf life

24 months from date of manufacture.

#### 6.4 Special precautions for storage

Store at or below 30°C, protected from light. Do not freeze.

#### 6.5 Nature and contents of container

Metronidazole intravenous (IV) solution for infusion BP, 500mg in 100mL, is available in 100mL plastic Viaflex® Minibags.

#### 6.6 Special precautions for disposal and other handling

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

### 7 MEDICINE SCHEDULE

Prescription Only Medicine.

### 8 SPONSOR

Metronidazole solution for infusion is distributed in New Zealand by:

<table>
<thead>
<tr>
<th>Baxter Healthcare Ltd</th>
<th>Baxter Healthcare Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 Vestey Drive</td>
<td>PO Box 14 062</td>
</tr>
<tr>
<td>Mt Wellington</td>
<td>Panmure</td>
</tr>
<tr>
<td>Auckland 1060.</td>
<td>Auckland 1741</td>
</tr>
</tbody>
</table>

Phone (09) 574 2400.
**NEW ZEALAND DATA SHEET**

**Metronidazole** solution for infusion is manufactured and distributed in Australia by:
Baxter Healthcare Pty Ltd
1 Baxter Drive
Old Toongabbie, NSW 2146.

**9 DATE OF FIRST APPROVAL**
Date of publication in the New Zealand Gazette of consent to distribute the medicine:
10 June 1982.

**10 DATE OF REVISION OF THE TEXT**
22 November 2018.

**SUMMARY TABLE OF CHANGES**

<table>
<thead>
<tr>
<th>Section changed</th>
<th>Summary of new information</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>Data sheet converted to SPC format. Text relocated to appropriate sections.</td>
</tr>
<tr>
<td>3</td>
<td>pH of Metronidazole corrected.</td>
</tr>
<tr>
<td>6.1</td>
<td>Excipient hydration states for excipients updated.</td>
</tr>
<tr>
<td>6.4</td>
<td>Change recommended storage to Store below 30°C</td>
</tr>
</tbody>
</table>

Based on Australian PI amended 23 October 2012; and RSI 2012 0000224S.

Please refer to the Medsafe website (www.medsafe.govt.nz) for most recent data sheet.

Baxter is a trademark of Baxter International Inc.