QUALITATIVE AND QUANTITATIVE COMPOSITION For all presentations, ranitidine is present as the hydrochic

salt. Syrup: Psenitidine 150 mg in 10 mL Ranitione 150 mg m 2 Tablets: Ranitidine 150 mg or 300 mg. Effervescent Tablets: Ranitidine 150 mg or 300 mg.

Injection: Ranitdine 50 mg in 2 ml aqueous solution (25 mg/ml) or 5 ml aqueous solution (10 mg/ml).

PHARMACEUTICAL FORM Oral Formulations Syrup. Tablets: film-coated and effervescent

Parenteral Formulation

CLINICAL PARTICULARS

Indications • Adults/Adolescents (12 years and over)

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- Prophysics of Mendelson's syndrame.
 Onliders/Infanct (1 month to 11 years)
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- age and Administration

Dosage and Administration General Information: ZMIAC effervescent tablets should be placed in half a glass of water (minimum 75 ml) and allowed to dissolve completely before wallowing, swith the glass if necessary. For 300 mg dose a volume of 150 ml is recommended. ZMIAC effervescent tablets contain aspartame.

ZWIAL effervescent tablets contain aspartame. Syrup: ZWIAC syrup contains approximately 7.5%w/v ethanol [alcohol], i.e. up to 405 mg per 5ml spoonful [approximately a teaspoonful] which is equivalent to about 11 ml of beer or 5 ml of wine.

Adults/Adolescents (12 years and over)

Oral Formulations

DUODENAL ULCER AND BENIGN GASTRIC ULCER

Acute treatment The standard doage regimen for draudental or bening gastric uter is 150 mg tiver ably or 200 mg one englythy. In most ca-of duadental uters, or bening statistic uters healing occurs within 4 weeks. Healing usualy occurs after a thritter 4 weeks in those not fully headed after the initial 4 weeks. In duadental uters 00m givine daily for 4 weeks results in healing rates which are higher than those at 4 weeks with 2MMAC 150 mg witce daily or 200 mg one englishy. The increased dose has not been associated with an increased indentee of unwanted effects.

incidence of unwanted effects. Long-term management for the long-term management of duodenal or benign gastri diver the unaid dosage regimen is 150 mg once nightly. Inder the unaid dosage regimen is 150 mg once nightly. relapse, and such patients should be advised to stog smoking hose who fail to comply with such advice a dose of 300 mg once nightly provides additional therapeutic benefit over the 150 mg dosage regimen.

NSAID ASSOCIATED PEPTIC ULCERATION

Acute treatment In ulcers following non-steroidal anti-inflammatory drug therapy, or associated with continued non-steroidal anti-inflammatory drugs, 8 to 12 weeks treatment may be necessary with 150 mg twice daily or 300 mg once nightly.

Prophylaxis For the prevention of non-steroidal anti-inflammatory drug associated duodenal ulcers ZANIAC 150 mg twice daily may be given concomitantly with non-steroidal anti-inflammatory dru

DUDDENAL ULCER ASSOCIATED WITH HELICOBACTER PVLORI/ INFECTION ZWIATC 300 mg once nightly or 150 mg twice daily may be given with oral amoxicilin 750 mg 3 times daily and metonidizable 500 mg 3 times daily for 2 weeks. Therapy with ZWIATC only should continue for a further 2 weeks. This dose regimen significantly reduces the frequency of duodenal ulcer

POST-OPERATIVE ULCER The standard dosage regimen for post-operative ulcer is 150 mg twice daily. Most cases heal within 4 weeks. Those not fully healed after the initial 4 weeks usually do so after a further 4 weeks.

GASTRO-OESOPHAGEAL REFLUX DISEASE

Acute treatment In reflux esophagitis 150 mg twice daily or 300 mg once night is administered for up to a period 68, or if necessary, 12 week In patients with moderate to severe oesophagitis, the dosage of ZMIAC may be increased to 150 mg 4 times daily for up to 12 weeks.

- 12 weeks. Long-term management For the long-term management of reflux oesophagitis, the recommended adult oral dose is 150 mg twice daily.
- Symptom relief for the relief of symptoms associated with oesophageal acid reflux, the recommended regimen is 150 mg twice daily for 2 weeks. This regimen may be continued for a further 2 weeks those patients in whom the initial response is inadequate.

ZOLLINGER-ELLISON SYNDROME The initial dosage regimen for Zollinger-Ellison syndro 150 mg 3 times daily, but this may be increased as neo Doses up to 6 g per day have been well tolerated.

CHRONIC EPISODIC DYSPEPSIA The standard dosage regimen for patients with chronic episodi dyspepsia is 150 mg twice daily for up to 6 weeks. Anyone not responding or relapsing shortly afterwards should be investigat

PROPHYLAXIS OF MENDELSON'S SYNDROME

PROPHYLAKS OF MENDELSON'S SYNDRAME. 100 mg 2 hous before maanthesia, and performant performance and the previous evening. Alternatively, the nijection is also available. In objective, patients in blaum 150 mg even blaums, beil graness antacid lee, sodium citatel be given in addition. Prophyrukass of HAMORIHARE FROM STRESS UCERANIN N MONOSTAL IN ANORHARE FROM STRESS UCERANIN UCERANIN UCERANIN 101 mg ince daily may be ubalituded for the injection none mixed stress.

- Alexandree and the given as- a down (over 2 minute) intravenous (iv.) injection of 50 mg. a down (over 2 minute) every 6 to 8 hours. a nitremittent ix. infision at 25 mg/h for 2 hours, repeated at 6 to 8 hour intervals. a nitramuscular (im.) injection of 50 mg every 6 to 8 hours.

PROPHYLAXIS OF MENDELSON'S SYNDROME For prophylaxis of Mendelson's syndrome 50 mg by i.m. or slow i.v. injection 45 to 60 minutes before induction of general anaesthesia.

The properties of the second s

Children/Infants (1 month to 11 years) (see Pharmacokinetics, Special Patient Populatio Children/Infants)

Oral formulations.

PEPTIC UI CER

PLPIC ULCEN Acute treatment The recommended oral dose for the treatment of peptic ulcer in children is 4 mg/kg/day to 8 mg/kg/day administered as two divided doses to a maximum of 300 mg ZAVIAC per day. For those patients with incomplete heading, another 4 weeks of therapy is indicated, as healing usually occurs within 8 weeks of

GASTRO-OESOPHAGEAL REFLUX The recommended oral dose for the treatment of gastro-oesophageal reflux in children is 5 mg/kg/day to 10 mg/kg/day administered as two divided doses to a ma of 600 mg ZANTAC per day.

01 600 mg schurze processes Injection: Limited data exist on the administration of i.v. ranitidine to children. ZMRAC Injection may be given as a slow (over 2 min) i.v. injection, up to a maximum of 50 mg every 6 to 8 hours. This recommendation is derived from adult clinical studies and pharmacokinetic data in paediatric patients.

PEPTIC ULCER acute treatment AND GASTRO-OESOPHAGEAL REFLUX

REFLUX The recommended i.v. dose for the treatment for peptic ulca and gastro-oesophageal reflux in children is 2 mg/kg/day to 4 mg/kg/day administered as two to four divided doses. This recommendation is derived from adult clinical studies and pharmacokinetic data in paediatric patients.

PROPHYLAXIS OF STRESS ULCERATION IN SERIOUSLY ILL PATIENTS The recommended i.v. dose for prophylaxis of stress ulceration in seriously ill patients is 2 mg/kg/day to 6 mg/kg/day administered as two to four divided dose Alternatively, ZAVTAC may be administered for prophylaxis of stress ulceration in seriously ill patients continuous infusion

continuous infusion. Neonates (under 1 month) (see Pharmacokinetics, Special Patient Populations, Neonates) fety and efficacy in neonates has not been tablished.

Patients over 50 years of age ee Pharmacokinetics. Special Patient Populations. Patients ver 50 years of age

over so years or aggi — Renal Inganiantitation of ranitidine with resulting elevated plasma concentrations will occur in patients with renal impairment (eratinne clearance less than 50 ml/min). It is recommended that the daily does of oral ZAIATCA is such patients should be 150 mg, and that ZAWIAC injection be administered in doese 25 mg.

150 mg, and that ZMVAC injection be administered in door of 25 mg. Contrainfications ZMVAC products are contraindicated in patients known to have been approximately and the proposition of the proposition to the provide of the product of the proposition to the provide of the product of the proposition to the provide of the product of the proposition to the provide of the product of the product of the pro-position of the product of the product of the pro-terest of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the product of the product of the dispersion of the product of the produc

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Interactions Ranitidine has the potential to affect the absorption, metaboliss or renal exerction of other drugs. The altered pharmacokinetics may necessitate dosage adjustment of the affected drug or discontinuation of treatment. Interactions occur by several mechanisms including:

Elimination Plasma concentrations decime bi-exponentially, with a terminal larkin-life of 2-3 hours. The major route of elimination is recal. After is a diministration of 150 mg. Spin in faces and 55% in which, of which 70% was succhanged parent drug. After oral administration of 150 mg. Hi-ranitions, 66% of which 55% was unchanged parent drug. Less than 3% of the doo is exercife to the R-rad discance is approximately on a second second to the R-rad discance is approximately renal tubular secretion.

Speciar attent ropustors Children/Infants (1 month to 11 years) Limited pharmacokinetic data have shown that the half-(2-3 hours) and plasma clearance (9-13 ml/min/kg) in ch 1 month and above are similar to those for healthy adul receiving oral ranitidine.

receveng oral ranitatine. • Patients over 50 years of age, hall-life is prolonged [3-4 hours] and clearance is reduced, consistent with the age-related decline of renal function. However, systemic exposure and accomplation are 50% higher. This difference exceeds the effect of declining renal function, and indicates increased baseavailability in older patients.

Impectance - Neonates (univer - Lanoth) - Neonates (univer - Lanoth) - Report - Rep

List of Excipients Syrup: Hydroxypropyl methylcicluluse 2906 or 2910 (4000 cP) Elmanol (86 percet) Propyl hydroxyberzzate Bulyl hydroxyberzzate Disadium dihydrogen orthophosphate Disadium dihydrogen orthophosphate anhydrous Sodium Chiorite

Special Patient Population

PHARMACEUTICAL PARTICULARS

Sorbitol 70 per cent (Non-crystallising) Mint flavour IFF 17:42:3632 Purified water

Tablet core: Microcrystalline cellulose Croscarmellose sodium (300 mg tablet only)

Purified water Efferencent Jahrs Monscolum (ratifie altylefous Apartamer Posidone KDO Solim benzule f Googefunt Inseur F1 0222 GrapeFunt Inseur F1 0222 Endylatet al scholar or technical use alcohol Banitatien 50 mg and 200 mg (Forevacent tablet GrapeFunt) (RCF Smg) and 202 mg (RCF Smg) of sodium, respectively.

List of Excipients

Tablets:

Magnesium stearate

espectively

10 mg/ml: Water for injections.

25 mg/ml: Disodium hydrogen orthophosphate

adium Chloride otassium dihydrogen orthophosphate anhydrous fater for injections

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The expiry date is indicated on the packaging. Special Precutations for Starage ZAVIAC's time voice tables: and efferescent tablets should be ZAVIAC's time voice tables: and efferescent tablets should be ZAVIAC's time voice tables: and any any any any protect from tight. ZAVIAC's injection should not be autoclaved. ZAVIAC's injection should not be autoclaved. ZAVIAC's and Contents of ZAVIAC's and Returns and Contents of Container

Tablets: The tablets are packed either in foil strips or double foil blister:

Effervescent Tablets: The tablets are packed either in foil strips or double foil blisters

Crear type I grass ampounds. Instructions for Use/Handling ZANTAC injection is a clear, colourless to pale yellow liquid. ZANTAC injection is compatible with the following i.v. infusion

preparation. Although compatibility studies have only been undertaken in polyviny chloride infusion bags (in glass for sodium bicarbonat and polyviny chloride administration sets, it is considered that adequate stability would be conferred by the use of a polyethythen infusion bag. Not all presentations are available in every country.

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Manufactured by: GlaxoSmithKline Manufacturing S.p.A, Parma, Italy ZANTAC is a trademark of the GlaxoSmithKline group of companies © 2013 GlaxoSmithKline group of companies. All rights re Version number: GDS44/IP110 Date of issue: 11 February 2013

5% dextrose 0.18% sodium chloride and 4% dextrose 4.2% sodium bicarbonate Hartmann's solution Unused admixtures should be discarded 24 hours after preparation.

Syrup: Amber glass bottle (hydrolytic class III) with child resist

Injection: Clear type 1 glass ampoules

iids:-9% sodium chloride 6 dextrose

gsk Glaxo

preparations. For Injection information, see Instructions for Use/Hane

Shelf-Life The expiry date is indicated on the packaging.

Injection

Film coat: Opadry white OY-S-7322 Purified water

1) Inhibition of cytochrome P450-linked mixed function

1) immutuan of cytochrome resonance make make function oxygenase system: Ranitidine at usual therapeutic doses does not potentiatu actions of drugs which are inactivated by this enzyme sy such as diazepam, lidocaine, phenytoin, propranolol and device drugs and the system of the

such as diazepam, lidocaine, physicing, propranolo and theophyline. There have been reports of altered prothrombin time with coumarin anticozgulants (e.g. warfarin). Due to the narrow therapeutic index, close monitoring of increased or decreas prothrombin time is recommended during concurrent treat with rantification.

with ranitidine. 2) Competition for renal tubular secretion: Since ranitidine is partially eliminated by the cationic system, may affect the clearance of other drougs eliminated by this roo High does of ranitidine (e.g., such as those used in the treatm of Zollinger-Elions syndrome) may reduce the exercision of procainamide and N-acetylprocainamide resulting in increase planal vectod of thread drougs.

pinnan levels of these drugs. 3) Alteration of gasting phil: the bioxelability of certain drugs may be affected. This can the additional the additional philosophilic additional results are the additional philosophilic additional (e.g. betroomarile, attanative, detuniding, effertile). There is no evidence of an interaction between on juntiliation and annoxellin and metroodabane. milliation the additional of the latter may be reacted. This effect in otsened Socialize is taken after an interval of 2 hours.

Frequency and account of the effects of ranitdine on human fertility There are no data on the effects of ranitdine on human fertility There were no effects on male and female fertility in animal studies (see Pre-Clinical Safety Data).

studies size Pre-Chinical Safety Datoj. Pregnancy and Lactation Ranitdine crosses the placenta and is excreted in breast milk. Like other drugs 2AMRG should only be used during pregnancy or during breast-feeding if considered essential. Effects on Ability to Drive and Use Machines None reported.

Effects on Adding to Urive and Use Machines None reported. Adverse Reactions The following convention has been utilised for the classification of undesirable effects: very common (≥ 1/10), common (≥ 1/100) to <1/100, uncer loss of 1/100, or les (≥ 1/100, or los <1/100, very rare (<1/10,000). Adverse event frequencies has been estimated from gontaneous perofs from post-marketing

marrow hypoplasia or marrow aplasia. Immune System Disorders Rare: hyporsensitivity reactions (urticaria, angioneurotic orderma, fever, bronchospasm, hypotension and chest pain). Very Rare: Anaphylactic shock. These events have been reported after a single dose.

Intese events have been reported after a single dose. Psychiatric Disorders Very Rare: Reversible mental confusion, depression and hallucinations. These have been reported predominantly in severely ill and elderly patients.

Nervous System Disorders Very Rare: Headache (sometimes severe), dizziness and re-involuntary movement disorders

Eye Disorders Very Rare: Reversible blurred vision. There have been reports of blurred vision, which is suggestive of a change in accommodation.

Cardiac Disorders Very Rare: As with other H₂ receptor antagonists bradycardia, A-V block and, with the injection only, asystole.

very nare: vacuums astwintestum Bloorders Very Nare: Acute pancreatius, diarhoea. Hepatobiliany biorders Rare: Transient and reversible changes in liver function Rare: New Rare Rational State State State State State Very Rare Rational State State State State State State Weight State State State State State State State State Weight State State State State State State State State Reversible.

reversible. Skin and Subcutaneous Tissue Disorders Rare: Skin rash. Very Rare: Erythema multiforme, alopecia. Musculoskeletal and Connective Tissue Disorders Very Rare: Musculoskeletal symptoms such as arthralgia and myalgia.

arthraiga and myaiga. Renal and Urinary Disorders Very rare: Acute interstitial nephritis. Reproductive System and Brazet Disorders Very Rare: Reversible impotence, breast ymptoms and breast conditions (such as gynaecomastia and galactorrhoea)

Overdose Ranitidine is very specific in action and no particular pro are expected following overdose with ZANTAC formulati Symptomatic and supportive therapy should be given as appropriate.

appropriate. Symp: Zhong Contains approximately 7.5 Newly effaund Zhong Contains approximately 2.5 Newly effaund to approximately a sequence to about the offere or sensi-te asymptotic and the equivalent to about the offere or sensi-te asymptotic and the sequence of the about the offere or sensi-te asymptotic and the sequence of the about the offere or sensi-te asymptotic and the sensitivity of the sensitivity of the sensitivity inclination about the sense of the sodium content of ZMACC effervescent tablets (see List of Despirets).

Mechanism of Action Renitiance is a specific, rapidly acting histamine H₂-antagonis inhibits basal and stimulated secretion of gastric acid, reducis both the volume and the acid and pepsin content of the secretion.

secretion. Pharmacodynamic Effects Pharmacodynamic Effects Pharmacodynamic Effects Data and the secretion for 12 hours. Clinical enderse has shown that can an analysis can show even Clinical enderse has shown that can are an an an and pharmacodynamic enderse has a shown that the pharmacodynamic enderse has a shown that the been shown to significantly reduce duodental ulcer resurrence. Heliconsterer priori bearists, This contrastanto therapy has been shown to significantly reduce duodental ulcer resurrence. Heliconsterer priori tests have 35% on efficients with duodental Pharmacodiverties Pharmacodiverties Altopation

Pharmacolinetics Absorption Following orai administration of 150 mg ravitidine, maximum pipane conventionistication (2006) S00 mg/ml) accurred after pipane result from reabsorption of fung exercised in the intestine. The absolution for fung exercised in the intestine. The absolution for any exercised in the intervaling does used to also approximation site of 50-600 mg/ml and pipane science and the state of the state pipane science and the science and the state of the state pipane science and the science and the science of pipane science and the science and the science of pipane science and the science and the science and the science and science

Distribution Ramiliatine is not extensively bound to plasma proteins (15%), but exhibits a large volume of distribution ranging from 96 to 142 L Metabolism Ramiliatine is not extensively metabolised. The fraction of the doors recovered as metabolities is similar after both onal and six dooings and includes 60 of the door in unice as the N-oade, 2% as the S-oade, 2% as demethyl ramitidine and 1 to 2% as the functionage.

Distribution

Vascular Disorders Very Rare: Vasculitis

oata. Blood & Lymphatic System Disorders Very Rare: Blood count changes (leucopenia, thrombocytopenia). These are usually r Agranulocytosis or pancytopenia, some marrow hypoplasia or marrow aplasia.

ncy and Lact Pregna