Forane

MARY OF PRODUCT CHARACTERISTICS OF THE MEDICINAL PRODUCT

ACEUTICAL FORM

CLINICAL PARTICULARS
Therapeutic indications
Isoflurane is indicated as a g

Posology and method of administration Vaporisers specially calibrated for isoflu delivered can be accurately controlled.

0-1 month 1-6 months 6-12 months 1-5 years 26±4 years 44±7 years 64±5 years 1.60% 1.87% 1.80% 1.60% 1.28% 1.15% 0.37%

Premedication: Drugs used for premedication should be selected for the interespiratory depressant effect of isoflurane. The uses of anticholinergic dries and with the selected for the interespiratory depressant effect of isoflurane. The uses of anticholinergic dries above the advisable for inhalation induction in paediatrics. Induction in induction in the series of participation or other intravenous induction agent inductions of the band durane mixture. Alternatively, isoflurane with oxygen like grounds and the series of the ser

mixture may be used.

It is recommended that induction with soffurane be initiated at a concentration of 5 %. Concentration of 5 %. Stockers, and the soffurane with a copyen of with an oxygen for the soffurane in oxygen for the soffurane in oxygen for the soffurane in oxygen oxide mixtures. An additional 0 - 1.0 % soffurane may be required when given with oxygen alone, an activation of the procedure. An additional 0 - 1.0 % soffurane in a mixture of oxygen frozon code is suitable to manasthesia for this procedure. Arterial pressure levels during maintenance tend to be inversely related to alveolor is concentrations in the absence of other complicating factors. Excessive fails in blood pressure may to depth of anaesthesia and in these circumstances, should be corrected by reAnimals. nance tend to be inversely related to alveolor isoflura mplicating factors. Excessive falls in blood pressure may be d nstances, should be corrected by reducing the inspired isoflura

Special warnings and precautions for use Vaporisers specially calibrated for isoflu delivered can be accurately controlled. Hy

deepened.

Reports of QT prolongation, associated with tor received. Caution should be exercised when admir Caution should be exercised in administering ge

Caution should be exercised in administering general anaesthesia, including is offurane, to patients with introchmental distorted marking of the potential risk for uterine interchmental distorted marking of the potential risk for uterine bleeding. Clinical judgement should be observed when using isoflurane during obsteric anaesthesia, consideration should be taken to use the lowest possible concentration of isoflurane in obsterical operations (please refer to Fertility, pregnancy and lactation) order with the use of fluorinated inhalation agents (e.g. ediffurance ediflurane and soflurane). Not officially significant concentrations of commonous are produced in the presence of normally hydrated absorberts. Care should be taken to follow manufacturer's instructions for Co. planotherus. Care indicated judgement concentrations of commonous are produced in the presence of normally hydrated absorberts. Care should be taken to follow constructions for Co. planotherus. Care of the commonous are produced in the presence of normally hydrated absorberts. Care should be taken to follow considerable and the commonous are produced in the present of the present of the commonous are produced in the present of the commonous are produced in the present of the commonous are produced in the present of the present of the commonous are produced in the present of the present of the present of the present of the commonous are produced in the present of the prese

of isoflurane...

desicaction. Therefore, the team in plant desicaction. Therefore, the team is the plant desired in the plant desired

investigated. A lower concentration of isofilurane is recommended for use in these patients. All commonly used mucked relaxants are markedly potentiated by isoflurane, the effect being most pro-with on-depolarising agents. Sofilurane may case a slightness may be present from a pro-sentation of the properties of the present and the present and the present and the pre-sentation of the presentation. This must be into account when patients resume normal daily activities, including driving or operating beary made (please refer to Effects on ability to of them and use machine). A potentiation of neuronizoidar fatigue can be seen in patients with neuronizoidar diseases, or mystatheria grows. Only the presentation of the presentation of

myasthena gravis. Isonurame snowu oe useu want same a develop bront solutiona should be administered with caution to patients who can develop bront bronchospam can occur (see section Undersiable effects). Solutiona may cause respitatory depression which may be augmented by narcotic prosperation should be supervised and if no section Undersiable effects).

During the induction of nanesthesia, saliva flow and track cause of faryngospasm, particularly in children (see sectic Children Under Two Years of Age Caution should be exercised when isoflurane is exercised. chial secretion can i

Malignant Hyperthermia In susceptible individuals, is hypermetabolic state lead

msusceptible individuals, isoflurane anaesthesia may trigger a skeletal muscle hypermetabolic state leading to high oxygen demand and the clinical syndrome known as malignant hyperthemia. The syndrome includes nonspecific features such as muscle rigidity, tachycardia, tachypnoea, cyanosis, arrhythmas, anduratable blood pressures; (it should also be noted that many of these nonspecific and a state deficit many of these nonspecific and a base deficit may appear. Treatment includes disconsintance of triggering agents (e.g. lofilurane) intravenous administration of dantrolene sodium, and application of supportive therapy. Such therapic induces vigorous offers to restroe body emperature to mornal, respiratory and circulatory support as indicated, and management of electrolyte-fluid-sid-base detangements; (Consult precipiting information papear later.) and intravenous for additional information on pattern management,) Brent flailure may appear later.

There have been postmarketing reports of malignant hyperthermia. Some of these assumes the support of the support of the support assumes the support of the support assumes the support of the support of the support of the support assumes the support of the suppo

There have been postmarket: Perioperative hyperkalaem! Use of inhaled anaesthetic age resulted in cardiac arrhythmi with latent as well as overt in be most vulnerable. Concom cases. These patients also ev cases, changes in urine consi-hyperthermia, none of these per Early and aggressive interven is subsequent evaluation for latents. eenassociated with rare increases in serum potassium levels that have ath in paediatric patients during the post-operative period. Patients (cular disease, particularly Duchenne muscular dystrophy, appear to 6 succinylic holine has been associated with most, but not all, of these of significant elevations in serum creatine kinase levels and, in some himpollobinuria. Despite the similarity in presentation to malignant himbited signs or symptoms of muscle regidity or hypermetabolic state.

is subsequent evaluation for taxen neuromuscular disease.

Interaction with other medicinal products and other forms of interaction.

Combinations advised gigatism.

Cerebinations advised gigatism.

Elike isopersaline and alpha- and beta- sympathomimetric agents like adversaline and nordernalise should be used with causion during software neurosis, due to a potential risk of ventricular arrhythmia.

Self-application of the production of the

Such as isoma are an ancison, may plasma fluoride concentrations.
Use of isoflurane and isoniazid can increase t Calcium antagonists, in particular dihydropy patients treated with calcium antagonists. Caution should be exercised due to the risk of additive neg

Opioids, benotal septimes and one scadure agents are associated with respiratory depresent of the scadure agents are associated with respiratory depresent of the secretical scadure agents are associated with respiratory depresent of the scadure agents are scale associated concomitantus es of succeptificialities with inhaled anaesthetic agents has been associated in serum potassium levels that have resulted in cardiac arrhythmias and death in paediat the post-operative period.

the post-operative period.

All commonly used muscle relixants are markedly potentiased by is oflurane, the effect being most profound with a common process of the profound of administration of the profound e use or isoriurane in pregnant women. Studies in animals have Id only be used during pregnancy if the benefit outweighs the warnings and precautions for use).

potential risk (please refer Use in Caesarean Section Isoflurane, in concentratio caesarean section (please Nursing Mothers It is not known whether iso

Because many drugs are extrement to a nursing woman.

Effects on ability to drive and use Patients should be advised that perfect or hazardous mach mental alertness, such as operating a sys after anaesthesia with isoflurane. Is may persist for up to 6 days after

Patients should be advised that p motor vehicle or hazardous mat As with other anaesthetics, sma administration (see Section Speci Undesirable effects a. Summary of the safety profile Adverse reactions encountered in of pharmaco-physiologic effects serious undesirable effects effects desirable effects encluded the serious undesirable effects serious undesirable effects included the serious under the serious undesirable effects included the serious under the s he administration of isoflurane are in general dose dependent extension dinclude respiratory depression, hypotension and arrhythmias. Poten malignant hyperthermia, hyperklalemia, elevated serum creatine kina ons and liver adverse reactions (please refer to section **Special warni**i sirable effects). Shivering, nausea, womitting, lieus, aditation and daliwi serious undesirable effects myoglobinuria, anaphylacti and precautions for use an have been observed in the p

isotlura of QT pr

b. Tabulated summary of adverse reaction
The following table displays adverse reaction

SUMMARY OF MOST FREQUENT ADVERSE DRUG REACTIONS			
soc	FREQUENCY	ADVERSE REACTIONS	
Blood and lymphatic system disorders	Notknown	Carboxyhaemoglobinaemia ²	
Immune system disorders	Not known Not known	Anaphylactic reaction ¹ Hypersensitivity ¹	
Metabolism and nutrition disorders	Not known Not known	Hyperkalaemia ² Blood glucose increased ²	
Psychiatric disorders	Not known Not known Not known	Agitation Delirium Mood altered ⁵	
Nervous system disorders	Not known Not known	Convulsion Mental impairment ⁴	
Cardiac disorders	Not known	Arrhythmia	
Vascular disorders	Not known Not known	Hypotension ² Haemorrhage ³	
Respiratory, thoracic and mediastinal disorders	Not known Not known Not known Not known Not known	Bronchospasm ² Dyspnoea ¹ Wheezing ¹ Respiratory depression ² Laryngospasm ²	
Gastrointestinal disorders	Not known Not known Not known	lleus Vomiting Nausea	
Hepatobiliary disorders	Not known Not known Not known	Hepatic necrosis ² Hepatocellular injury ² Blood bilirubin increased ³	
Skin and subcutaneous tissue disorders	Not known Not known Not known	Swelling face ¹ Dermatitis contact ¹ Rash ¹	
Renal and urinary disorders	Not known Not known	Blood creatinine increased ¹ Blood urea decreased ¹	
General disorders and administration site conditions	Not known Not known Not known	Hyperthermia malignant ² Chest discomfort ² Chills	
Investigations	Not known Not known Not known Not known Not known Not known	White blood cell count increa Hepatic enzyme increased ² Fluoride increased ³ Electroencephalogram abnor Blood cholesterol decreased ³ alkaline phosphatase decreas	

- ons for use rtion. See Sp real funct

See Tuckerisable effects (c)

See Special warnings and precautions for use

In patients undergoing induced abortion. See Special warnings and precautions for use

In patients undergoing induced abortion. See Special warnings and precautions for use

May cause as light decreased innellicutal function for 2-4 days after anaesthesis. See Special warnings and precautions for use

of the Common o

nater estudient in carroid, anynimma, and outside in paceutants patients carring the post-opie ander period.

John properties of the post-opie and period warnings and precautions for use in muculai dystrophy.

Older people:
Lesser concentration of influence are normally required to maintain surgical anaesthesia in elderly tester concentration.

Reporting of suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit first balance of the medicinal product. Healthcare professionals are Toreport any side effect(s):

In Bahrain, United Arab Emirates, Yemen, Kuwait, Oman, and Qatar:

o Email: pagidigabelous can access to the Incale aleptoring system.

In old the Company of the Co

Pharmacodynamic properties Induction and particularly recove excessive salivation and tracheo-b are diminished quickly. Levels of a Spontaneous respiration become monitored.

monitored. During indicates the state of the

aintained despite increasing

Isoflurane appears to sensitise the myocardium to adrenaline to an even lesser extent than Enf Limited data suggest that subcutaneous infiltration of up to 50ml of 1:200,000 solution adrenaline de induce ventricular arrhythmias, in patients anaesthetised with is forlurant.

Lentited and stoggest that black unarous mist atent to up to shorted a 12,000,000 and an atentame own to Mancular relaxation may be adequate for some intra-ablomial operations at normal levels of an aesthesis but should greater relaxation be required small doses of intravenous muscle relaxants may be used. but should greater relaxation be required small doses of intravenous muscle relaxants may be used. The commonly used muscle relaxants are markedy potentiated by isoflurane, the effect being most per laxant with a not effect on the relaxant properties of isoflurane the steff. All commonly used muscle relaxants are but also deleted to the termination of the steff of

Age	100% Oxygen	70% N,O
26±4	1.28	0.56
44±7	1.15	0.50
64±5	1.05	0.37

PHARMACEUTICAL PARTICULARS List of excipients

None.
Incompatibilities
Incomp section Special warmings and precautions for use). Special precautions for storage Do not store above 25oC. Keep container well close Nature and contents of Container 100 ml and 250 ml glass bottles. Not all pack sizes may be marketed. Special precautions for disposal Vaporisers specially calibrated for is offurane shou delivered can be accurately controlled. It is recommended that vapour from this and other is

ts be efficiently extracted from the area

Manufacturer
Aesica Queenborough Ltd.,
Kent, ME11 5EL, UK

Kent, ME11 SEL, UK MARKETING AUTHORISATION HOLDER AbbVie Ltd. Abbott House, Vanwall Business Park Manuse