Havrix[™] 1440 Adult / 720 Junior

Inactivated hepatitis A vaccine

QUALITATIVE AND QUANTITATIVE COMPOSITION

Havrix™ hepatitis A virus vaccine is a sterile suspension containing formaldehyde-inactivated hepatitis

Avius (MINTS hepatitis A virus value) as a steme suspirison containing formation-given included nepaturs A virus (HINTS hepatitis A virus strain) adsorbed onto aluminium hydroxide. The virus is propagated in MRC₅ human diploid cells. Before viral extraction the cells are extensively washed to remove culture medium constituents. A virus suspension is then obtained by lysis of the cells followed by purification using ultrafiltration techniques and gel chromatography. The virus is inactivated with formaldehyde.

with formatidehyde

HavrixTM meets the World Health Organisation requirements for the Hepatitis A vaccine (inactivated).

HavrixTM contains a purified sterile suspension of inactivated hepatitis A virus; the viral antigen content is determined by an EUSA test.

HavrixTM 1440 Adult is standardised to ensure a viral antigen content of not less than 1440 ELISA Units (ELU.) of viral antigens per 1.0 ml.

HavrixTM 720 Junior is standardised to ensure a viral antigen content of not less than standardised to ens

antigens per 0.5 ml.

PHARMACEUTICAL FORM

Suspension for injection

CLINICAL PARTICULARS

Indications

Havrix™ is indicated for active immunisation against hepatitis A virus (HAV) infection in subjects at risk of exposure to HAV. HavrixTM will not n

HavrixTM will not prevent hepatitis infection caused by other agents such as hepatitis B virus, hepatitis C virus, hepatitis E virus or other pathogens known to infect the liver.

Critiss, nepatitis 5 must be during antiques in strong to file the liver. In areas of low to intermediate prevalence of hepatitis A, immunisation with Havrix™ is particularly recommended in subjects who are, or will be, at increased risk of infection such as:

Travellers. Persons travelling to areas where the prevalence of hepatitis A is high. These areas include Africa, Asia, the Mediterranean basin, the Middle East, Central and South America.

Armed Forces. Armed Forces personnel who travel to higher endemicity areas or to areas where hygiene is poor have an increased risk of HAV infection. Active immunisation is indicated for these individuals. individuals

Persons for whom hepatitis A is an occupational hazard or for whom there is an increased risk of transmission. These include employees in day-care centres, nursing, medical and paramedical personnel in hospitals and institutions, especially gastroenterology and paediatric units, sewage workers, food handlers, among others.

Persons at increased risk due to their sexual behaviour. Homosexuals, persons with multiple sexual

Persons at increased risk due to their sexual persons.

partners.

Haemophiliacs.
Abusers of Injectable Drugs.
Contacts of Infected Persons, Since virus shedding of infected persons may occur for a prolonged period, active immunisation of close contacts is recommended.

Persons who require protection as part of hepatitis A outbreak control or because of regionally elevated morbidity.

Specific population groups known to have a higher incidence of hepatitis A.

For example American Indians, Eskimos, recognised community-wide HAV epidemics.

Subjects with chronic liver disease or who are at risk of developing chronic liver disease (e.g. Hepatitis B (HB) and Hepatitis C (HC) Chronic carriers and alcohol abusers).

In areas of intermediate to high prevalence of hepatitis A (eg Africa, Asia, the Mediterranean basin, the Middle East, Central and South America) susceptible individuals should be considered for active immunisation. These include children and adolescents especially in high socio-economic groups and urban areas.

Dosage and Administration

Prositionary
 — Promiting vaccination
 - Adults from age 19 years and onwards
 A single dose of Havrix™ 1440 Adult (1.0 ml suspension) is used for primary immunisation.
 - Children and adolescents from 1 year up to and including 18 years of age
 A single dose of Havrix™ 720 Junior (0.5 ml suspension) is used for primary immunisation.
 — Prositive vaccination.

Booster vaccination

After primary vaccination with either HavrixTM 1440 Adult or HavrixTM 720 Junior, a booster dose is recommended in order to ensure long term protection. This booster dose should be given at any time between 6 months and 5 years, but preferably between 6 and 12 months after the primary dose (see *Pharmacodynamics*).

 Method of administration
HavrixTM is for intramuscular administration. The vaccine should be injected in the deltoid region in adults and children, in the antero-lateral part of the thigh in young children.
The vaccine should not be administered in the gluteal region.
The vaccine should not be administered subcutaneously/intradermally since administration by these routes may result in a less than optimal anti-HAV antibody response.
HavrixTM should under no circumstances be administered intravascularly.
HavrixTM should be administered with caution to subjects with thrombocytopenia or a bleeding disorder since bleeding may occur following an intramuscular administration to these subjects. Firm pressure should be applied to the injection site (without rubbing) for at least two minutes. Contraindications

Havrix[™] should not be administered to subjects with known hypersensitivity to any component of the vaccine (see *Qualitative and quantitative composition* and *List of excipients*), or to subjects having shown signs of hypersensitivity after previous administration of Havrix[™].

Warnings and Precautions

As with other vaccines, the administration of **Havrix™** should be postponed in subjects suffering from acute severe febrile illness. The presence of a minor infection, however, is not a contra-indication for

acute severe febrile illness. The presence of a minor intection, invector, is not a containment vaccination. It is possible that subjects may be in the incubation period of a hepatitis A infection at the time of vaccination. It is not known whether <code>HavrixTM</code> will prevent hepatitis A in such cases. In haemodialysis patients and in subjects with an impaired immune system, adequate anti-HAV antibody thres may not be obtained after a single dose of <code>HavrixTM</code> and such patients may therefore require administration of additional doses of vaccine. <code>HavrixTM</code> contains traces of neomycin. The vaccine should be used with caution in patients with known hypersensitivity to this antibiotic.

As with all injectable vaccines, appropriate medical treatment and supervision should always be readily available for treatment in case of a rare anaphylactic event following the administration of the vaccine.

a wallable for treatment in case of a rare anaphylactic event following the administration of the vaccine. Syncope (fainting) can occur following, or even before, any vaccination as a psychogenic response to the needle injection. It is important that procedures are in place to avoid injury from faints. HavrixTM can be given to HIV-infected persons. Seropositivity against hepatitis A is not a contra-indication.

Since Havrix™ is an inactivated vaccine its concomitant use with other inactivated vaccines is unlikely

To result in interference with the immune responses.

Concomitant administration of typhoid, yellow fever, cholera (injectable) or tetanus does not interfere with HavrixTM immune response.

Concomitant administration of immunoglobulines does not impact the protective effect of the vaccine. When concomitant administration of other vaccines or of immunoglobulins is considered necessary, the products must be given with different syringes and needles and at different injection sites.

Pregnancy and Lactation

Pregnancy
Adequate human data on use during pregnancy and adequate animal reproduction studies are not
available. However, as with all inactivated viral vaccines the risks to the foetus are considered to be
negligible. HavrixTM should be used during pregnancy only when clearly needed.

Lactation
Adequate human data on use during lactation and adequate animal reproduction studies are not available. Although the risk can be considered as negligible, **Havrix™** should be used during lactation only when clearly needed.

Effects on Ability to Drive and Use Machines

The vaccine is unlikely to produce an effect on the ability to drive and use machines.

Adverse Reactions

Clinical trials

The safety profile presented below is based on data from more than 5300 subjects.

The Sariety priorite presented below is based of Frequencies per dose are defined as follows: Very common: ≥ 10% Common: ≥ 10 % Common: ≥ 0.1% and < 10% Rare: ≥ 0.01% and < 0.1% Rare: ≥ 0.01% and < 0.1% < 0.01%

Infections and infestations
Uncommon: upper respiratory tract infection, rhinitis
Metabolism and nutrition disorders
Common: appetite lost

Psychiatric disorders: Very common: irritability Nervous system disorders Very common: headache Common: drowsiness Uncommon: dizziness

Rare: hypoaesthesia, paraesthesia

Gastrointestinal disorders
Common: gastrointestinal symptoms (such as diarrhoea, nausea, vomiting)
Skin and subcutaneous tissue disorders
Uncommon: rash
Descenting the control of the con

Rare: pruritus

Musculoskeletal and connective tissue disorders Uncommon: myalgia, musculoskeletal stiffness

General disorders and administration site conditions
Very common: pain and redness at the injection site, fatigue
Common: welling, malaise, fever (≥37.5°C), injection site reaction (such as induration)
Uncommon: influenza like illness

Rare: chills

Post-marketing surveillance Immune system disorders
Anaphylaxis, allergic reactions including anaphylactoid reactions and mimicking serum sickness
Nervous system disorders
Convulsions

Vascular disorders Vasculitis Skin and subcutaneous tissue disorders Angioneurotic oedema, urticaria, erythema multiforme Musculoskeletal and connective tissue disorders

Arthralaia

Cases of overdose have been reported during post-marketing surveillance. Adverse events reported following overdosage were similar to those reported with normal vaccine administration.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamics

Pharmaco-therapeutic group: Hepatitis A vaccines, ATC code J07BC02.

HavrixTM confers immunisation against HAV by stimulating specific immune responses evidenced by the induction of antibodies against HAV.

In clinical studies, 99% of vaccinees seroconverted 30 days after the first dose. In a subset of clinical studies, 99% of vaccinees seroconverted 30 days after the first dose. In a subset of clinical studies where the kinetics of the immune response was studied, early and rapid seroconversion was demonstrated following administration of a single dose of HavrixTM in 79% of vaccinees at day 13, 86.3% at day 15, 95.2% at day 17 and 100% at day 19, which is shorter than the average incubation period of hepatitis A (4 weeks). (see also *Preclinical Safety Data*).

The efficacy of HavriyTM was evaluated in different community-wide outbreaks (Alaska, Slovakia, IISA).

vaccinees were seropositive one month after the booster dose. However, if the booster dose has not been given between 6 and 12 months after the primary dose, the administration of this booster dose can be delayed up to 5 years. In a comparative trial, a booster dose given up to 5 years after the primary dose has been shown to induce similar antibody levels as a booster dose given between 6 and 12 months after the primary dose. Long term persistence of hepatitis A antibody titers following 2 doses of HavrixTM given 6 to 12 months apart has been evaluated. Data available after 10 years allows prediction that at least 97% of subjects will remain seropositive (>20 mll/ml) 25 years after vaccination.

Current data do not support the need for booster vaccination among immunocompetent subjects after a 2 dose vaccination occurse.

2 dose vaccination course

Pharmacokinetics

Evaluation of pharmacokinetic properties is not required for vaccines.

Clinical Studies

See section "Pharmacodynamics"

Pre-clinical Safety Data

Appropriate safety tests have been performed. In an experiment in 8 non-human primates, the animals were exposed to an heterologous hepatitis A strain and vaccinated 2 days after exposure. This post exposure vaccination resulted in protection of

PHARMACEUTICAL PARTICULARS

List of Excipients

Aluminium hydroxide, amino acids for injections, disodium phosphate, monopotassium phosphate, polysorbate 20, potassium chloride, sodium chloride, water for injections.

Incompatibilities

Havrix™ should not be mixed with other vaccines or immunoglobulins in the same syringe.

Shelf Life

The expiry date of the vaccine is indicated on the label and packaging

Special Precautions for Storage

Havrix™ should be stored at +2°C to +8°C.

Do not freeze; discard if vaccine has been frozen.

Additional information on the stability:

The following experimental data give an indication of the stability of the vaccine and are not recommendations for storage: the monodose of Havrix™ has been kept at +37°C for 3 weeks without a significant loss of potency.

Instructions for Use/Handling

Nature and Contents of Container
The content, upon storage, may present a fine white deposit with a clear colourless supernatant.
Havrix™ is presented in a glass vial or prefilled glass syringe.
The valis and syringes are made of neutral glass type I, which conforms to European Pharmacopoeia
Requirements.

Requirements.

The vaccine should be inspected visually for any foreign particulate matter and/or variation of physical aspect prior to administration. Before use of <code>HavrixTM</code>, the vial/syringe should be well shaken to obtain a slightly opaque white suspension. Discard the vaccine if the content appears otherwise.

For further information, please contact manufacturer.

Not all presentations are available in every country. Havrix is a trademark of the GlaxoSmithKline group of companies.