PRODUCT MONOGRAPH

ASPIRIN® Regular Strength
acetylsalicylic acid tablets USP,
325mg

ASPIRIN® Extra Strength
acetylsalicylic acid tablets USP,
500mg

ASPIRIN® 81mg
acetylsalicylic acid delayed release tablets USP,
81mg

ASPIRIN® 81mg Quick Chews®
acetylsalicylic acid tablets USP
81mg

Analgesic, anti-inflammatory, antipyretic and
Platelet aggregation inhibitor

BAYER INC., CONSUMER CARE
2920 Matheson Boulevard East
Mississauga, ON L4W 5R6

Date of Preparation:
December 30, 2005

Date of Revision:
April 13th, 2017

Submission Control No: 202259

©Copyright Bayer Inc. 2014
Table of Contents

PART I: HEALTH PROFESSIONAL INFORMATION ........................................................ 3
  SUMMARY PRODUCT INFORMATION ................................................................. 3
  INDICATIONS AND CLINICAL USE ..................................................................... 4
  CONTRAINDICATIONS ......................................................................................... 5
  WARNINGS AND PRECAUTIONS ...................................................................... 5
  ADVERSE REACTIONS ......................................................................................... 7
  DRUG INTERACTIONS ......................................................................................... 8
  DOSAGE AND ADMINISTRATION ..................................................................... 10
  OVERDOSAGE ..................................................................................................... 11
  ACTION AND CLINICAL PHARMACOLOGY ....................................................... 11
  STORAGE AND STABILITY ............................................................................... 13
  SPECIAL HANDLING INSTRUCTIONS .............................................................. 13
  DOSAGE FORMS, COMPOSITION AND PACKAGING ....................................... 13

PART II: SCIENTIFIC INFORMATION ....................................................................... 14
  PHARMACEUTICAL INFORMATION ................................................................. 14
  CLINICAL TRIALS ............................................................................................. 15
  DETAILED PHARMACOLOGY .......................................................................... 20
  MICROBIOLOGY ................................................................................................. 23
  TOXICOLOGY ...................................................................................................... 23
  REFERENCES ....................................................................................................... 24

PART III: CONSUMER INFORMATION ..................................................................... 33
**PART I: HEALTH PROFESSIONAL INFORMATION**

**SUMMARY PRODUCT INFORMATION**

<table>
<thead>
<tr>
<th>Route of Administration</th>
<th>Dosage Form / Strength</th>
<th>Clinically Relevant Nonmedicinal Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>ASPIRIN® 81mg</td>
<td>Lactose</td>
</tr>
<tr>
<td></td>
<td>acetylsalicylic acid delayed release tablets, USP, 81mg</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>ASPIRIN® 81mg Quick Chews</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>acetylsalicylic acid tablets, USP, 81mg</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>ASPIRIN® Regular Strength</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>acetylsalicylic acid tablets, USP, 325mg</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>ASPIRIN® Extra Strength</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>acetylsalicylic acid tablets, USP, 500mg</td>
<td></td>
</tr>
</tbody>
</table>

*For a complete listing see Dosage Forms, Composition and Packaging section.*
INDICATIONS AND CLINICAL USE

ASPIRIN® (acetylsalicylic acid, ASA) is indicated for the relief of pain, fever and inflammation of a variety of conditions such as influenza, common cold, low back and neck pain, dysmenorrhea, headache, toothache, sprains and strains, fractures, myositis, neuralgia, synovitis, arthritis, bursitis, burns, injuries, following surgical and dental procedures. ASPIRIN® Extra Strength is also indicated for relief of migraine pain and the associated symptoms of photophobia (sensitivity to light) and phonophobia (sensitivity to sound), and improves overall quality of life.

ASPIRIN® is also indicated for the following uses, based on its platelet aggregation inhibitory properties:

<table>
<thead>
<tr>
<th>Use</th>
<th>Product Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>- for reducing the risk of vascular mortality in patients with a suspected acute myocardial infarction;</td>
<td>ASPIRIN® 81mg DIN 02237726  ASPIRIN® 81mg Quick Chews DIN 02289970  ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
<tr>
<td>- for reducing the risk of a <strong>first</strong> non-fatal myocardial infarction in individuals deemed to be at sufficient risk of such an event by their physician.</td>
<td>ASPIRIN® 81mg DIN 02237726  ASPIRIN® 81mg Quick Chews DIN 02289970  ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
<tr>
<td>- There is no evidence for a reduction in the risk of <strong>first</strong> fatal myocardial infarction.</td>
<td></td>
</tr>
<tr>
<td>- ASPIRIN® does not reduce the risk of either cardiovascular mortality or <strong>first</strong> strokes, fatal or non-fatal.</td>
<td></td>
</tr>
<tr>
<td>The decrease in the risk of <strong>first</strong> non-fatal myocardial infarction must be assessed against a much smaller but not insignificant increase in the risk of haemorrhagic stroke as well as gastrointestinal bleeding.</td>
<td></td>
</tr>
<tr>
<td>- for reducing the risk of morbidity and death in patients with unstable angina and in those with previous myocardial infarction</td>
<td>ASPIRIN® 81mg DIN 02237726  ASPIRIN® 81mg Quick Chews DIN 02289970  ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
<tr>
<td>- for reducing the risk of transient ischemic attacks (TIA) and for secondary prevention of atherothrombotic cerebral infarction;</td>
<td>ASPIRIN® 81mg DIN 02237726  ASPIRIN® 81mg Quick Chews DIN 02289970  ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
<tr>
<td>- for prophylaxis of venous thromboembolism after total hip replacement;</td>
<td>ASPIRIN® 81mg DIN 02237726  ASPIRIN® 81mg Quick Chews DIN 02289970  ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
<tr>
<td>- for reducing the adhesive properties of platelets in patients following carotid endarterectomy to prevent recurrence of TIA and in hemodialysis patients with a silicone rubber arteriovenous cannula.</td>
<td>ASPIRIN® Regular Strength 325mg DIN 02150328</td>
</tr>
</tbody>
</table>
CONTRAINDICATIONS

- Patients who are hypersensitive to ASA, salicylates, non-steroidal anti-inflammatory drugs (NSAIDs), analgesics, antipyretics or other ingredients in the product or component of the container. For a complete listing, see Dosage Forms, Composition and Packaging section of the product monograph.
- Acute gastrointestinal ulcer
- History of gastrointestinal ulcers
- Hemorrhagic diathesis
- Active or Severe hepatic failure, renal failure, or congestive heart failure
- Patients with a history of asthma induced by the administration of salicylates or substances with a similar action, notably NSAIDs
- Combination with methotrexate at doses of 15mg/week or more (see “Drug Interactions”).
- Last trimester of pregnancy (see “Special Populations”)

WARNINGS AND PRECAUTIONS

General

ASA is one of the most frequent causes of accidental poisonings in toddlers and infants. Tablets should be kept well out of the reach of children.

ASA should be administered cautiously to patients with:

- uncontrolled hypertension
- impaired hepatic, renal function or cardiovascular circulation (e.g. renal vascular disease, congestive heart failure, volume depletion, major surgery, sepsis or major haemorrhagic events)
- a history of bleeding tendencies, significant anemia and/or hypothrombinemia
- concomitant treatment with anticoagulants (see “Drug Interactions”)
- concomitant treatment with NSAIDs, such as ibuprofen and naproxen in patients on an ASA regimen (see “Drug Interactions”)

Hypersensitivity

ASA may precipitate bronchospasm and induce asthma attacks or other hypersensitivity reactions. Risk factors are present bronchial asthma, hay fever, nasal polyps, or chronic respiratory disease. This applies also for patients showing allergic reactions (e.g. cutaneous reactions, itching, urticaria) to other substances.

Hematologic

Due to effect on platelet aggregation, ASA may be associated with an increased risk of bleeding. Caution is necessary when salicylates and anticoagulants are prescribed concurrently, as salicylates can depress the concentration of prothrombin in the plasma.
Peri-Operative Considerations

Due to its inhibitory effect on platelet aggregation which persists for several days after administration, ASA may lead to an increased bleeding tendency during and after surgical operations (including minor surgeries, e.g. dental extractions).

Special Populations

Women attempting to conceive:

During the first and second trimester of pregnancy, acetylsalicylic acid containing drugs should not be given unless clearly necessary. If acetylsalicylic acid containing drugs are used by a woman attempting to conceive, or during the first and second trimester of pregnancy, the dose should be kept as low as possible and duration of treatment as short as possible.

Pregnant Women:

Acetylsalicylic acid inhibits prostaglandin synthesis. Inhibition of prostaglandin synthesis may adversely affect the pregnancy and/or the embryo/foetal development. Data from epidemiological studies raise concern about an increased risk of miscarriage and of malformations after the use of a prostaglandin synthesis inhibitor in early pregnancy. The risk is believed to increase with dose and duration of therapy. Available data do not support any association between intake of acetylsalicylic acid and an increased risk for miscarriage. For acetylsalicylic acid the available epidemiological data regarding malformation are not consistent, but an increased risk of gastroschisis could not be excluded. A prospective study with exposure in early pregnancy (1st-4th month) of about 14,800 mother-child pairs has not yielded any association with an elevated rate of malformations.

During the third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the foetus to:

- cardiopulmonary toxicity (with premature closure of the ductus ateriosus and pulmonary hypertension);
- renal dysfunction, which may progress to renal failure with oligo-hydroamniosis;

Use of any prostaglandin synthesis inhibitors at the end of pregnancy may expose the mother and the child to:

- possible prolongation of bleeding time, an anti-aggregating effect which may occur even after very low doses
- inhibition of uterine contractions resulting in delayed or prolonged labour

Consequently, acetylsalicylic acid is contraindicated in the third trimester of pregnancy.

Nursing Women:

ASA and its metabolites pass into breast milk in small quantities. Since no adverse effects on the infant have been observed after occasional use, interruption of breast-feeding is usually unnecessary. However, on regular use or on intake of high doses, breast feeding should be discontinued early.
A possible association between Reye's syndrome and the use of salicylates has been suggested but not established. Reye's syndrome has also occurred in many patients not exposed to salicylates. ASA should not be used in children and teenagers for viral infections with or without fever without consulting a physician. In certain viral illnesses, especially influenza A, influenza B and varicella, there is a risk of Reye’s syndrome, a very rare but possibly life-threatening illness requiring immediate medical action. The risk may be increased when ASA is given concomitantly; however, no causal relationship has been proven. Should persistent vomiting occur with such diseases; this may be a sign of Reye’s syndrome.

**Low Uric Acid Excretion:**
At low doses, ASA reduces excretion of uric acid. This can trigger gout in patients who already tend to have low uric acid excretion.

**Glucose-6-phosphate dehydrogenase (G6PD) Deficiency:**
In patient suffering from glucose-6-phosphate dehydrogenase (G6PD) deficiency, ASA may induce hemolysis or haemolytic anemia. Factors that may increase the risk of haemolysis are high dosage, fever, or acute infections.

**Elderly**
In general, ASA should be used with caution in elderly patients (≥ 60 years of age), as these patients may be more susceptible to adverse reactions.

**Monitoring and Laboratory Tests**
Salicylates can produce changes in thyroid function tests.

Isolated cases of liver function disturbances (transaminases increase) have been described.

**ADVERSE REACTIONS**
Many adverse reactions due to ASA ingestion are dose-related. The following is a list of adverse reactions that have been reported in the literature and from both clinical and post-marketing experience.

**Gastrointestinal** (the frequency and severity of these adverse effects are dose-related): nausea, vomiting, diarrhea, gastrointestinal bleeding and/or ulceration, dyspepsia, heartburn, hematemesis, melena, abdominal pain, and rarely gastrointestinal inflammation

**Bleeding:** Due to platelet inhibition, bleedings e.g. perioperative haemorrhage, hematomas, epistaxis, urogenital bleedings, and gingival bleedings may occur.

Serious bleedings, such as gastrointestinal tract hemorrhages, and cerebral hemorrhages are rare. Isolated cases of potentially life threatening bleedings have been reported, especially in patients with uncontrolled hypertension and/or concomitant antihemostatic agents.

**Ear:** dizziness, tinnitus, vertigo, hearing loss. Dizziness and tinnitus have been reported, which may be indicative of an overdose.
Hematologic: leukopenia, thrombocytopenia, purpura, anemia. Anemia with respective laboratory and clinical signs and symptoms, such as asthenia, pallor, and hypoperfusion is generally caused by bleeding (e.g. occult microbleeding, acute or chronic bleeding). Hemolysis and hemolytic anemia in patients with severe forms of glucose-6-phosphate dehydrogenase (G6PD) deficiency has been reported.

Dermatologic and hypersensitivity: urticaria, pruritus, skin eruptions, asthma, anaphylaxis, edema nasal congestion and rhinitis. Severe allergic reactions, including anaphylactic shock are very rarely reported.

Miscellaneous: mental confusion, drowsiness, sweating, thirst. Transient hepatic impairment with increase in liver transaminases has very rarely been reported. Renal impairment and acute renal failure have been reported.

**DRUG INTERACTIONS**

**Overview**

ASA should be used with caution with other products that have anticoagulation or antiplatelet effects, as these effects may be potentiated. Drugs that bind to protein binding sites should also be used cautiously since ASA may displace drugs from their protein binding site.

**Contraindicated Interactions**

**Methotrexate, used at doses of 15mg/week or more:** Increased hematological toxicity of methotrexate (due to decreased renal clearance of methotrexate by anti-inflammatory agents in general and displacement of methotrexate from its plasma protein binding by salicylates). See “Contraindications”.

**Drug-Drug Interactions**

**Methotrexate, used at 15mg/week or less:** Salicylates may retard the elimination of methotrexate by decreasing renal clearance of methotrexate, displacing methotrexate from protein binding sites, and thereby increasing its hematological toxicity.

**Anti-coagulants, thrombolytics / other inhibitors of platelet aggregation / hemostasis,** e.g. warfarin, heparin: Caution is necessary when salicylates and anticoagulants, thrombolytics / other inhibitors of platelet aggregation / hemostasis prescribed concurrently, as salicylates can depress the concentration of prothrombin in the plasma, leading to an increased risk of bleeding.

**Oral hypoglycemics,** e.g. insulin, sulfonylureas: Large doses of salicylates have a hypoglycemic action and may enhance the effect of oral hypoglycemic agents. Diabetics receiving concurrent salicylate and hypoglycemic therapy should be monitored closely: reduction of the sulfonylurea hypoglycemic drug dosage may be necessary.

**Diuretics:** Diuretics in combination with acetylsalicylic acid at higher doses leads to decreased glomerular filtration via decreased prostaglandin synthesis. As a result, sodium
excretion may be decreased by salicylate administration.

**Uricosuric Agents:** Salicylates in large doses are uricosuric agents; smaller amounts may depress uric acid clearance and thus decrease the uricosuric effects of other drugs.

**Valproic Acid:** Salicylates may alter valproic acid (VPA) metabolism and may displace VPA from protein binding sites, possibly intensifying the effects of VPA. Caution is recommended when VPA is administered concomitantly with salicylates.

**Glucocorticoids (systemic), except hydrocortisone used as replacement therapy in Addison’s disease:** Decreased blood salicylate levels during corticosteroid treatment and risk of salicylate overdose after this treatment is stopped via increased elimination of salicylates by corticosteroids.

**Angiotensin Converting Enzyme (ACE) Inhibitors:** The hyponatremic and hypotensive effects of ACE inhibitors may be diminished by the concomitant administration of ASA due to its indirect effect on the renin-angiotensin conversion pathway (i.e. inhibition of vasodilatory prostaglandins leading to decreased glomerular filtration). The potential interaction may be related to the dose of ASA (3g/day or more).

**Selective Serotonin Re-uptake Inhibitors (SSRIs):** Increased risk of upper gastrointestinal bleeding due to possibly synergistic effect.

**Digoxin:** Plasma concentrations of digoxin are increased due to a decrease in renal excretion.

**NSAIDS:**

**ASA and other NSAIDs:** The use of other NSAIDs with salicylates at high doses (≥ 3g/day) may increase the risk of ulcers and gastrointestinal bleeding due to a synergistic effect.

**Ibuprofen:** Ibuprofen can interfere with the anti-platelet effect of low dose ASA acid (81-325 mg per day). Long-term daily use of ibuprofen may render ASA less effective when used for cardioprotection and stroke prevention. To minimize this interaction, regular users of ibuprofen and of low-dose, immediate-release ASA should take the ibuprofen at least one hour after and 11 hours before the daily ASA dose. The use of delayed-release (e.g. enteric-coated) ASA is not recommended when using ibuprofen regularly.

**Naproxen:** Naproxen may attenuate the irreversible platelet inhibition induced by acetylsalicylic acid. Clinical pharmacodynamic data suggest that concurrent (same day) naproxen sodium usage for more than one day consecutively inhibits the effect of low-dose acetylsalicylic acid on platelet activity and this inhibition may persist for up to several days after stopping naproxen sodium therapy. The clinical relevance of this interaction is not known. Treatment with naproxen, in patients with increased cardiovascular risk may limit the cardiovascular protection of acetylsalicylic acid (see “Special warnings and precautions for use”).

Healthcare professionals should advise consumers and patients regarding the appropriate concomitant use of NSAIDs (i.e. ibuprofen or naproxen) and ASA.

**Drug-Food Interactions**
Interactions with food have not been established.

**Drug-Herb Interactions**

Interactions with herb have not been established.

**Drug-Laboratory Interactions**

Salicylates can produce changes in thyroid function tests.

**Drug-Lifestyle Interactions**

**Alcohol:** Increased damage to gastrointestinal mucosa and prolonged bleeding time due to additive effects of acetylsalicylic acid and alcohol. Patients having 3 or more alcoholic drinks per day should consult their physician before use.

**DOSAGE AND ADMINISTRATION**

ASPIRIN tablets should preferably be taken after meals, with plenty of liquid.

**Dosing Considerations**

Please see below for specific dosing instructions for each indication.

**Recommended Dose and Dosage Adjustment**

**Analgesic and antipyretic:**

Adults: 1-2 tablets (325mg to 650mg) orally every 4 – 6 hours.

Children under 12: 10 to 15mg/kg every 6 hours, not to exceed a total daily dose of 2.4g

Consult a physician if fever lasts more than 3 days, pain lasts longer than 5 days, new symptoms occur or redness/swelling is present.

**Migraine pain and associated symptoms:**

Adults: 1000mg (2 x 500mg tablets) at onset of pain or symptoms.

Children: Clinical studies to support migraine relief in children have not been conducted with acetylsalicylic acid.

**Anti-inflammatory:**

Adults: 3 tablets (975mg) 4 to 6 times a day, up to 30 tablets daily, may be required for optimal anti-inflammatory effect. A blood level between 15 and 30mg per 100 mL is in the desirable therapeutic range.

Children: 60 to 125mg/kg daily in 4 to 6 divided doses.

**Platelet aggregation inhibitor:**

**Suspected Acute Myocardial Infarction:** An initial dose of at least 162mg chewed or crushed to ensure rapid absorption as soon as a myocardial infarction is suspected. The same dose should be given as maintenance over the next 30 days. After 30 days, consider further therapy based on dosage and administration for prevention of recurrent MI (see Prior Myocardial Infarction).

**Prevention of a first non-fatal myocardial infarction:** 81 - 325mg once daily, according to the individual needs of the patient, as determined by the physician.
**Prior Myocardial Infarction or Unstable Angina Pectoris:** 81 - 325mg daily according to the individual needs of the patient, as determined by the physician.

**Transient Ischemic Attack and Secondary Prevention of Atherothrombotic Cerebral Infarction:** 81 - 325mg daily according to the individual needs of the patient, as determined by the physician.

**Prophylaxis of Venous Thromboembolism after total hip replacement:** 162 - 325mg daily according to the individual needs of the patient, as determined by the physician.

**OVERDOSAGE**

Mild Overdose or Early Poisoning - burning in the mouth, lethargy, nausea, vomiting, tinnitus, sweating, thirst, tachycardia or dizziness.

Moderate Overdose - all of the symptoms from mild overdose plus tachypnea, hyperpyrexia, sweating, dehydration, loss of coordination, restlessness, mental confusion.

Severe Overdose - all of the symptoms from moderate overdose plus hypotension, hallucinations, stupor, hypoglycemia, convulsions, cerebral edema, oliguria, renal failure, cardiovascular failure, coma, hemorrhage, metabolic acidosis, respiratory alkalosis and/or failure.

Emergency Management:
1. Immediate transfer to hospital and maintain cardiovascular and respiratory support.
2. Gastric lavage, administration of activated charcoal,
3. Check of acid-base balance and correct if necessary.
4. Alkaline diuresis so as to obtain urine pH between 7.5 and 8 should be considered when plasma salicylate concentration is greater than 500mg/L (3.6 mmol/L) in adults or 300mg/L (2.2 mmol/L) in children
5. Hemodialysis should be considered in severe poisoning 800mg/L (5.8 mmol/L) in adults and 700mg/L (5.0 mmol/L) in children, as renal elimination of salicylates may be slow due to the presence of acidic urine and renal failure. Hemodialysis should also be considered if the patient is experiencing severe systemic metabolic acidosis (arterial pH < 7.2), acute renal failure, pulmonary edema or CNS symptoms such as: drowsiness, agitation, coma or convulsions.
6. Fluid losses should be replaced with hypotonic solution (e.g. half saline) and supplemented with glucose 50 to 100g/L.

**Fatal Dose:** varies from 10 to 30g of ASA. However, (in one case) 130g of ASA was ingested without fatal outcome.

For management of a suspected drug overdose, contact your regional Poison Control Centre.

**ACTION AND CLINICAL PHARMACOLOGY**

**Mechanism of Action**

ASA interferes with the production of prostaglandins in various organs and tissues through acetylation of the enzyme cyclo-oxygenase. Prostaglandins are themselves powerful irritants
and produce headaches and pain on injection in man. Prostaglandins also appear to sensitize pain receptors to other noxious substances such as histamine and bradykinin. By preventing the synthesis and release of prostaglandins in inflammation, ASA may avert the sensitization of pain receptors.

The antipyretic activity of ASA is due to its ability to interfere with the production of prostaglandin E₁ in the brain. Prostaglandin E₁ is one of the most powerful pyretic agents known.

The inhibition of platelet aggregation by ASA is due to its ability to interfere with the production of thromboxane A₂ within the platelet. Thromboxane A₂ is, largely, responsible for the aggregating properties of platelets.

In vitro studies have shown that ASA enhances the activity of the Nitric oxide (NO)-cGMP system and heme oxygenase-1 (HO-1) by acting on endothelial NO synthase site.

**Pharmacokinetics**

**Absorption:**
When ASA is taken orally, it is rapidly absorbed from the stomach and proximal small intestine. The gastric mucosa is permeable to the non-ionized form of acetylsalicylic acid, which passes through the stomach wall by a passive diffusion process.

Optimum absorption of salicylate in the human stomach occurs in the pH range of 2.15 to 4.10. Absorption in the small intestine occurs at a significantly faster rate than in the stomach. After an oral dose of 0.65g ASA, the plasma acetylsalicylate concentration in man usually reaches a level between 0.6 and 1.0mg % in 20 minutes after ingestion and drops to 0.2 mg % within an hour. Within the same period of time, half or more of the ingested dose is hydrolyzed to salicylic acid by esterases in the gastrointestinal mucosa and the liver, the total plasma salicylate concentration reaching a peak between one or two hours after ingestion, averaging between 3 and 7mg %. Many factors influence the speed of absorption of ASA in a particular individual at a given time; tablet disintegration, solubility, particle size, gastric emptying time, psychological state, physical condition, nature and quantity of gastric contents, etc., all affect absorption.

**Distribution:**
Distribution of salicylate throughout most body fluids and tissues proceeds at a rapid rate after absorption. Aside from the plasma itself, fluids which have been found to contain substantial amounts of salicylate after oral ingestion include spinal, peritoneal and synovial fluids, saliva and milk. Tissues containing high concentrations of the drug are the kidney, liver, heart and lungs. Concentrations in the brain are usually low, and are minimal in feces, bile and sweat.

The drug readily crosses the placental barrier. At clinical concentrations, from 50% to 90% of the salicylate is bound to plasma proteins especially albumin, while acetylsalicylic acid itself is bound to only a very limited extent. However, ASA has the capacity of acetylating various proteins, hormones, DNA, platelets and hemoglobin, which at least partly explains its wide-ranging pharmacological actions.

**Metabolism:**
The liver appears to be the principal site for salicylate metabolism, although other tissues may also be involved. The three chief metabolic products of ASA or salicylic acid are salicyluric
acid, the ether or phenolic glucuronide and the ester or acyl glucuronide. A small fraction is also converted to gentisic acid and other hydroxybenzoic acids. The half-life of ASA in the circulation is from 13 to 19 minutes so that the blood level drops quickly after absorption is complete. However, the half-life of the salicylate ranges between 3.5 and 4.5 hours, which means that 50% of the ingested dose leaves the circulation within that time.

**Excretion:**
Excretion of salicylates occurs principally via the kidney, through a combination of glomerular filtration and tubular excretion, in the form of free salicylic acid, salicyluric acid, as well as phenolic and acyl glucuronides. Salicylate can be detected in the urine shortly after its ingestion but the full dose requires up to 48 hours for complete elimination. The rate of excretion of free salicylate is extremely variable, reported recovery rates in human urine ranging from 10% to 85%, depending largely on urinary pH. In general, it can be stated that acid urine facilitates reabsorption of salicylate by renal tubules, while alkaline urine promotes excretion of the drug.

With the administration of 325mg, elimination of ASA is linear following a first order kinetics. At high concentrations, elimination half life increases.

**Special Populations and Conditions:**
Absorption and clearance of salicylates are not affected by gender or age.

**STORAGE AND STABILITY**

**ASPIRIN® Regular Strength tablets:** Store between 15-25°C.

**ASPIRIN® Regular Strength caplets:** Store between 15-25°C.

**ASPIRIN® Extra-Strength tablets:** Store between 15-25°C.

**ASPIRIN® 81mg (delayed release tablet):** Store between 15-30°C.

**ASPIRIN® 81mg Quick Chews:** Store between 15-30°C.

**SPECIAL HANDLING INSTRUCTIONS**

Not applicable

**DOSAGE FORMS, COMPOSITION AND PACKAGING**

**ASPIRIN® Regular Strength tablets:** Each round, white tablet with the Bayer Cross* on both sides contains 325mg acetylsalicylic acid in a formula containing corn starch, hypromellose, powdered cellulose, triacetin. In bottles of 24, 50, 100, and 200.

**ASPIRIN® Regular Strength caplets:** Each white capsule-shaped tablet (caplet), with Bayer on one side and score on the other, contains 325mg acetylsalicylic acid in a formula containing corn starch, hypromellose, powdered cellulose, triacetin. In bottles of 50 and 100.

**ASPIRIN® Extra-Strength tablets:** Each round, white tablet, with the Bayer Cross* in red ink on one side, contains 500mg acetylsalicylic acid in a formula containing carnauba wax, corn starch, D&C Red #7 Calcium Lake, FD&C (Blue #2, Red #40 – Aluminum Lake), hypromellose, powdered cellulose, propylene glycol, shellac, titanium dioxide, triacetin. In bottles of 50 and 100.

**ASPIRIN® 81mg (delayed release tablet):** Each pale blue coloured enteric coated tablet,
with 81 in dark blue ink on one side contains 81mg acetylsalicylic acid in a formula containing
carnauba wax, corn starch, croscarmellose sodium, FD&C (Blue #1, Blue #2 – Aluminum
Lake), hypromellose, lactose monohydrate, methacrylic acid and ethyl acrylate copolymer,
microcrystalline cellulose, polysorbate 80, powdered cellulose, propylene glycol, shellac,
sodium lauryl sulphate, titanium dioxide, triacetin. In bottles of 30, 120, 180 and 365.

**ASPIRIN® 81mg Quick Chews:** Each peach coloured tablet, with pleasant orange taste and
the Bayer Cross* on one side contains 81mg acetylsalicylic acid in a formula containing corn
starch, dextrose, FD&C Yellow #6 Aluminum Lake, orange flavour, sodium cyclamate. In
bottles of 30, and 100 tablets.

---

**PART II: SCIENTIFIC INFORMATION**

**PHARMACEUTICAL INFORMATION**

**Drug Substance**

Proper name: acetylsalicylic acid

Chemical name: 2-(Acetyloxy) benzoic acid; salicylic acid acetate

Molecular formula: C\textsubscript{9}H\textsubscript{8}O\textsubscript{4}

Molecular mass: 180.16

Structural formula:

![Structural formula of acetylsalicylic acid]

Physicochemical properties:

- **Description:** White granules, commonly tabular or needle-like, or white crystalline powder. Odourless or having a faint odour.

- **Solubility:** Slightly soluble in water; freely soluble in alcohol; soluble in chloroform and ether; sparingly soluble in absolute ether.

- **pK value (25°C):** 3.49

- **Melting Point:** 135°C (rapid heating)
## CLINICAL TRIALS

### Study demographics and trial design

#### Anti-Platelet Aggregation Studies

<table>
<thead>
<tr>
<th>Study #/ cross-reference</th>
<th>Trial Design</th>
<th>Dosage, route of administration and duration</th>
<th>Study Subjects (n = number)</th>
<th>Mean age (Range)</th>
<th>Gender</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ISIS – 2</strong> Ref 102</td>
<td>Multicentre international 2x2 factorial, randomized, placebo controlled study.</td>
<td>160-162.5 mg oral for 30 days after suspected acute MI. (Median follow-up to 15 months).</td>
<td>ASA 8587, Streptokinase 8592, ASA + Strep 4292, Placebo 4300</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>TPT</strong> Ref 61</td>
<td>Randomized, factorial, placebo-controlled, parallel-group study</td>
<td>warfarin (mean) 4.1mg, ASA 75mg</td>
<td>warfarin + ASA 1,277 warfarin + ASA placebo 1,268 ASA + warfarin placebo 1,268 ASA placebo + warfarin placebo 1,272</td>
<td>45-69 years</td>
<td>Male</td>
</tr>
<tr>
<td><strong>HOT</strong> Ref 101</td>
<td>Prospective, randomized, open with blinded endpoint evaluation (PROBE). ASA component was double blinded</td>
<td>ASA 75mg or placebo; felodipine 5mg, ACE-inhibitors, β-blockers, diuretics mean - 3.8 years</td>
<td>19,567 subjects of which 18,790 were randomized to ASA or Placebo (ASA = 9,399; Placebo = 9,391)</td>
<td>61.5 years - mean (50-80 years)</td>
<td>Male 53% Female 47%</td>
</tr>
<tr>
<td><strong>PHS</strong> Ref 100</td>
<td>Double blind placebo controlled, 2x2 factorial randomized parallel group</td>
<td>ASA 325mg every other day for 60.2 months</td>
<td>22,071 ASA = 11,037 Placebo = 11,034</td>
<td>40 to 84 years</td>
<td>Male</td>
</tr>
</tbody>
</table>

Indication: Reducing the risk of vascular mortality in patients with a suspected acute myocardial infarction.

Indication: Reducing the risk of a first non-fatal myocardial infarction in individuals deemed to be at sufficient risk of such an event by their physician.
<table>
<thead>
<tr>
<th>Study #/cross-reference</th>
<th>Trial Design</th>
<th>Dosage, route of administration and duration</th>
<th>Study Subjects (n = number)</th>
<th>Mean age (Range)</th>
<th>Gender</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Platelet Aggregation Studies (continued)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indication: Reducing the risk of morbidity and death in patients with unstable angina and in those with previous myocardial infarction</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RISC</td>
<td>Prospective randomized, double blind, placebo controlled, multicentre study</td>
<td>ASA 75mg daily for 3 months after initial heparin by IV for 5 days</td>
<td>- Heparin 198 - ASA 189 - Heparin + ASA 210 - Placebo 199</td>
<td>58 years</td>
<td>Male</td>
</tr>
<tr>
<td>Ref 76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RISC Trial, 12 month follow-up</td>
<td>Prospective randomized, double blind, placebo controlled, multicentre study</td>
<td>ASA 75mg daily for 3 months after initial IV heparin for 5 days</td>
<td>- Heparin 198 - ASA 189 - Heparin + ASA 210 - Placebo 199</td>
<td>58 years</td>
<td>Male</td>
</tr>
<tr>
<td>Ref 89</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verheugt et al.</td>
<td>Prospective, randomized, placebo-controlled, comparative multicentre study</td>
<td>ASA 100mg for approx. 3 months</td>
<td>ASA 50 Placebo 50</td>
<td>ASA 61 years Placebo 64 years</td>
<td>ASA 72% male Placebo 76% male</td>
</tr>
<tr>
<td>Ref 88</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAPAT</td>
<td>Prospective, randomized, double blind placebo controlled, multicentred study</td>
<td>ASA 75mg daily for up to 6 years (median 50 months)</td>
<td>ASA 1009 Placebo 1026</td>
<td>52 years</td>
<td>ASA male 51% Placebo males 53%</td>
</tr>
<tr>
<td>Ref 54</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indication: Reducing the risk of transient ischemic attacks (TIA) and for secondary prevention of atherothrombotic cerebral infarction</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SALT</td>
<td>Prospective, randomized, double blind, placebo controlled, multicentre study</td>
<td>ASA 75mg daily for minimum of 12 months and maximum of 63 months (mean 30.6 months)</td>
<td>ASA 676 Placebo 684</td>
<td>50-79 years ASA mean: 67 years PLA mean: 66.8 years</td>
<td>ASA 65.4% male Placebo 66.2% male</td>
</tr>
<tr>
<td>Ref 81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lindblad et al.</td>
<td>Prospective, randomized, double blind placebo controlled study</td>
<td>ASA 75mg daily for 6 months</td>
<td>ASA 117 Placebo 115</td>
<td>66 years (40-81 years)</td>
<td>75% male</td>
</tr>
<tr>
<td>Ref 57</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Migraine Study</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lipton et al.</td>
<td>Prospective, randomized, double-blind, parallel-group, placebo-controlled</td>
<td>Single dose ASA 1000 mg</td>
<td>ASA = 201 Placebo = 200</td>
<td>ASA = 37.3 PLA = 37.9</td>
<td>ASA = 79 % female PLA = 79 % female</td>
</tr>
<tr>
<td>Ref 95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Study results

#### Platelet Aggregation Studies Results

<table>
<thead>
<tr>
<th>Study #</th>
<th>Primary Endpoints</th>
<th>Associated value and statistical significance for ASA compared to Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Indication:</strong> Reducing the risk of vascular mortality in patients with a suspected acute myocardial infarction.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| ISIS – 2 Ref 102 | Vascular death after 5 week period | ASA 9.4%, Placebo 11.8%  
Odds reduction 23%  
2p < 0.00001  
ASA was statistically significantly better than placebo |
| **Indication:** Reducing the risk of a first non-fatal myocardial infarction in individuals deemed to be at sufficient risk of such an event by their physician | | |
| TPT Ref 61 | All ischemic heart disease defined as the sum of fatal and non-fatal events (i.e. coronary death and fatal and non-fatal myocardial infarction). | ASA 10.2%, Placebo 13.3%  
20% reduction in IHD  
p = 0.04  
ASA was statistically significantly better than placebo |
| HOT Ref 101 | Major cardiovascular events were defined as all (fatal and non-fatal) myocardial infarctions, all (fatal and non-fatal) strokes, and all other cardiovascular deaths. | Reduction in all cardiovascular events by 15% and all myocardial infarction by 36%  
p=0.03  
p = 0.002  
ASA was statistically significantly better than placebo |
| PHS Ref 100 | fatal and non-fatal myocardial infarction | 325 mg ASA every other day:  
44% reduction in risk of MI in ASA vs. Placebo group  
Relative Risk 0.56, 95% CI 0.45-0.70  
p<0.00001  
P<0.0001  
ASA was statistically significantly better than placebo |
### Platelet Aggregation Studies Results (continued)

<table>
<thead>
<tr>
<th>Study #</th>
<th>Primary Endpoints</th>
<th>Associated value and statistical significance for ASA compared to Placebo and Comparator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Indication</strong></td>
<td>Reducing the risk of morbidity and death in patients with unstable angina and in those with previous myocardial infarction</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Value</strong></td>
<td>ASA vs. Placebo</td>
</tr>
<tr>
<td>RISC</td>
<td>Death or non-fatal MI</td>
<td>5 days: Risk Ratio 0.43 (CI 0.21-0.91)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 days: Risk Ratio 0.31 (CI 0.18-0.53)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90 days: Risk Ratio 0.36 (0.21-0.57)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASA was statistically significantly better than placebo</td>
</tr>
<tr>
<td>RISC Trial, 12 month follow-up</td>
<td>MI and death</td>
<td>6 months: ASA-35 events, heparin 76 events. Risk Ratio 0.46 (CI 0.31-0.67)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 months, ASA 44 events, heparin 85 events. Risk Ratio 0.52 (CI 0.37-0.72)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASA was statistically significantly better than placebo</td>
</tr>
<tr>
<td>Verheugt et al.</td>
<td>Reinfarction rate</td>
<td>ASA 2 patients (4%), Placebo 9 patients (18%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASA was statistically significantly better than placebo</td>
</tr>
<tr>
<td>SAPAT</td>
<td>non-fatal or fatal MI or sudden death</td>
<td>ASA 8%, Placebo 12%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASA was statistically significantly better than placebo</td>
</tr>
</tbody>
</table>
Indication: Reducing the risk of transient ischemic attacks (TIA) and for secondary prevention of atherothrombotic cerebral infarction

<table>
<thead>
<tr>
<th>Value</th>
<th>ASA vs. Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 % reduction in risk: Relative Risk 0.82 (CI 0.67-0.99)</td>
<td>p=0.02 ASA was statistically significantly better than placebo</td>
</tr>
<tr>
<td>ASA 2 cases, Placebo 11 cases</td>
<td>p=0.01 ASA was statistically significantly better than placebo</td>
</tr>
</tbody>
</table>

Migraine Study Results

<table>
<thead>
<tr>
<th>Study #</th>
<th>Primary Endpoints</th>
<th>Associated value and statistical significance for ASA compared to Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Value</td>
<td>ASA vs. Placebo</td>
</tr>
<tr>
<td>Lipton et al.</td>
<td>% of subjects experiencing headache response at 2 hr (defined as change in pain intensity from mod. to severe at baseline to mild or none at 2 hr post-medication)</td>
<td>ASA 52 %, Placebo 34% p&lt;0.001 ASA was statistically significantly better than placebo</td>
</tr>
</tbody>
</table>
DETAILED PHARMACOLOGY

Analgesia:
The analgesic effect of ASA has been recognized and utilized clinically for more than half a century. The degree of analgesia attained with ASA is moderate but it has proved highly suitable in the management of pathological pain of mild to moderate severity. As regards site of action, both peripheral and CNS factors appear to contribute significantly to the pain relief afforded by ASA. As for mechanism of action, the accumulated evidence of recent years indicates that ASA acts by interfering with the synthesis and release of prostaglandins, thereby averting the sensitization of pain receptors to mechanical stimulation or to other mediators.

Migraine:
Migraines are reoccurring headaches that last 4-72 hours and are characterized by lateralized throbbing, moderate to severe pain intensity and at least one other of the following symptoms: nausea, photophobia, phonophobia. Routine physical activity aggravates the symptoms. Some individuals also experience neurological aura such as blurring of vision before the pain and associated symptoms occur.

Evidence suggests that there are at least three mechanisms involved in the pathophysiology of migraines: extracranial arterial vasodilatation, extracranial neurogenic inflammation and decrease inhibition of central pain transmission. It has been shown that the degree of inflammatory activity is proportional to the intensity of the pain felt and as the blood pulses, the characteristic throbbing emerges.

An estimated two million Canadians have been diagnosed with migraines but many migraineurs never receive a clinical diagnosis; therefore, the actual numbers of Canadians who suffer from migraines could be over 3 million. Over 70% of migraine sufferers are women and the majority are aged between 20 and 50 years. This prevalence is based in part due to hormonal fluctuations that women experience related to menstruation, oral contraceptive use, pregnancy, menopause and hormone replacement therapy.

The use of a single dose of ASA (2 x 500 mg tablets) in patients with a migraine attack was investigated in two placebo-controlled clinical studies conducted by Bayer. Treatment with ASA resulted in a statistically significant relief of migraine pain and in the associated symptoms of photophobia and phonophobia that continued throughout the 6 hour post-dose observation. The results also showed a significant improvement in overall quality of life for migraine sufferers but there was no difference between ASA and placebo groups in headache recurrence.

Antipyresis:
Interference with the synthesis and release of prostaglandins is also involved in the antipyretic activity of ASA. ASA effects a significant reduction in elevated body temperature, but has little effect on normal body temperature. This latter is maintained by a delicate balance between heat production and heat loss, with the hypothalamus regulating the set point at which body temperature is maintained. Fever is induced by synthesis and release of prostaglandins in this temperature-regulating area and ASA acts by interfering with this process. Heat production is not inhibited but dissipation of heat is augmented by increased peripheral blood flow and by sweating.

Anti-inflammatory effect:
Components of the anti-inflammatory action of the salicylates are increased capillary resistance, thus reducing capillary leakage in response to local toxins, interference with the production of tissue-destructive lysosomal enzymes and inhibition of the synthesis of prostaglandin E compounds.
which have been shown to be potent mediators of the inflammatory process. Besides interfering with the synthesis of prostaglandins ASA also acts by interfering with lymphocyte activation and lymphokine production. Lymphokines are produced by activated thymus lymphocytes which are abundant in the inflammatory tissues of patients suffering from rheumatoid arthritis. They cause increased vascular permeability and white blood cell chemotaxis, activate macrophages and stimulate lymphocyte DNA synthesis. They also induce release of tissue-destructive lysosomal enzymes as well as prostaglandins. The prostaglandins themselves, beside causing many manifestations of inflammation also act as a potent negative feedback mechanism by inhibiting lymphokine production. An in-depth review of the effects of ASA on the lymphocyte-macrophage axis in inflammation has been published.

Effects on platelets: relation to hemostasis and thrombosis.

Platelets play an important role in normal hemostasis and clinical pathologic and experimental evidence indicates that their aggregation may play an equally important role in the evolution of a variety of disease states including cerebrovascular disease, ischemic heart disease and myocardial infarction. ASA inhibits platelet aggregation by irreversibly acetylating platelet cyclo-oxygenase, thereby blocking the production of prostaglandin endoperoxides PGG2 and PGH2 which are precursors of the major platelet-aggregating material, thromboxane A2, which is also a powerful vasoconstrictor. However, ASA does not prevent the adherence of platelets to damaged vessel walls or the release of granule contents from these adherent platelets. As the anuclear platelets are unable to synthesize new enzyme molecules to replace those that have been inactivated, inhibition of platelet aggregation by ASA thus persists for the life of the platelets. Daily administration of 20 to 40 mg of ASA to healthy volunteers reduced platelet thromboxane production but inhibited platelet aggregation only partially. When administered to patients recovering from myocardial infarction, 50 mg ASA daily had the same effects on thromboxane production, platelet aggregation and bleeding times as 324 mg daily. Other studies show that ASA doses of 40 to 325 mg daily suppressed thromboxane production by at least 80%, but 80 mg ASA daily was the lowest dose required for maximum cumulative thrombocyte function inhibition. The protective effect of ASA against experimentally induced thrombosis or atherosclerosis has been demonstrated in several animal models.

Besides inhibiting the biosynthesis of thromboxane A2 by platelets, ASA also interferes with the production of prostacyclin (PGI2) by vascular endothelial cells, the above-mentioned prostaglandin endoperoxides being common precursors of both thromboxane A2 and prostacyclin. This latter compound is one of the most powerfully acting platelet deaggregators and vasodilators and thus it would appear that the interference with the hemostatic processes by ASA depends on the thromboxane-prostacyclin balance. In fact, it has been suggested that under some conditions, high doses of ASA may be thrombogenic. However, in contrast to platelets, the vascular endothelial cells are able to regenerate cyclo-oxygenase in a relatively short time and therefore therapeutic doses of ASA are likely to produce a lesser inhibition of the vascular prostacyclin system than of the platelet thromboxane-forming mechanism. In fact, there is no clinical evidence to indicate that high doses of ASA would result in an increased risk of thromboembolism. Indeed, quite the contrary was observed and, in a controlled study, paradoxical shortening of the bleeding time was not observed at a daily ASA dose of 3.6 g. Lower dosages of ASA make selective blocking of the TxA2-synthesis without a simultaneous blocking of PGI2-production possible.

The use of ASA in patients with a suspected acute myocardial infarction was investigated in a large multi-centre trial involving over 17,000 patients. Treatment with ASA resulted in a 23% reduction in the risk of vascular mortality versus placebo at 5 weeks. This use translates to a reduction of 24 deaths and 14 non-vascular events per 1000 patients treated.
The effect of time to therapy revealed that patients treated with ASA “early” (0 to 4 hours) versus “late” (5 to 24 hours) after symptom onset experienced reductions in the odds of vascular death of 25% versus 21%, versus placebo at 5 weeks. ‘Early’ treatment with ASA resulted in the saving of 4 additional lives per 1000 patients versus ‘late’ treatment.

Long term follow-up (up to 10 years) of patients in this study established that the early survival advantage to ASA persisted long term, and that this prolonged benefit was additive to that of fibrinolytic therapy.

The use of ASA for secondary prevention of thrombotic events is supported by a comprehensive overview of a number of clinical trials involving patients who already had some type of vascular disease (myocardial infarction, unstable angina, stroke or transient cerebral ischemia). Overall, these studies point to a 26-28 % reduction of the combined endpoints of MI, stroke, or vascular deaths by treatment with ASA alone at doses of 75 to 325 mg daily. Studies which directly compared low doses with higher doses (30-1200 mg/day), indicated that the incidence of gastrointestinal adverse effects were significantly less common with the lower doses.

In a study in patients undergoing coronary artery bypass surgery (CABG), patients given ASA at a dosage of 80 mg to 650 mg within 48 hours of revascularization had a risk of dying reduced to 1.3% as compared to 4.0% for those who did not receive treatment (P<0.001). There was a reduction in the incidence of myocardial infarction of 2.8% vs. 5.4%, p < 0.001. In total, the reduction in fatal and non-fatal outcomes was lower in those who received ASA, 10.6% vs. 18.6% in those who did not (p<0.001). The investigators Perioperative Ischemia Research Group (PIRG) concluded that early use of ASA after coronary by-pass surgery is safe and is associated with a reduce risk of death and ischemic complications involving the heart, brain, kidneys and gastrointestinal tract.

There was no ASA dose effect observed for either fatal or non-fatal outcomes with total doses lower than 325mg daily.

Recent discussions have focused on the efficacy of ASA for the primary prevention of myocardial infarction and stroke. Two large scale randomized trials, aimed at evaluating prophylactic use of ASA, were conducted among apparently healthy male physicians (22,000 in the United States and 5,000 in the United Kingdom) and their results have been published. In the summary overview of the combined results presented by the principal investigators, the authors state that: “Taken together, these two primary prevention studies demonstrate a significant (p < 0.0001) reduction in non-fatal myocardial infarction of about one third.”

On the other hand, the same two studies have not indicated any reduction in overall vascular mortality and also suggested a slight increase in the risk of non-fatal disabling stroke. Current controversy exists about the applicability of these findings, obtained in a selected population, to the general public. As well, the optimum dosage regimen still remains an open question in this regard. Thus, the use of ASA for primary prevention should remain, in the words of the principal investigators:

"a matter of judgment in which the physician considers the cardiovascular risk profile of the patient and balances the known hazards of ASA...against the clearly established reduction in the incidence of a first myocardial infarction".
Effect of Ibuprofen on Platelet Aggregation, Bleeding and Clotting Times in Normal Volunteers.

Experimental data suggest that ibuprofen may inhibit the effect of low dose ASA (81-325 mg per day) on platelet aggregation when they are dosed concomitantly. In one study, when a single dose of ibuprofen 400mg was taken within 8 hours before or within 30 minutes after immediate release ASA dosing (81mg), a decreased effect of acetylsalicylic acid on the formation of thromboxane or platelet aggregation occurred. However, the limitations of these data and the uncertainties regarding extrapolation of \textit{ex vivo} data to the clinical situation imply that no firm conclusions can be made for regular ibuprofen use, and no clinically relevant effect is considered to be likely for occasional ibuprofen use. In a more recent double blind, randomized, placebo-controlled trial with healthy subjects by Cryer et. al, 2005, it has been shown that the drug-drug interaction is absent when immediate release ASA (81 mg) was taken 1 hour before taking ibuprofen (400 mg, TID) and also when ibuprofen was given 11 hours before the intake of low dose ASA. Thus, in order to adequately minimize potential interaction, the recommended dosing schedule for immediate release low dose ASA is to wait at least 11 hours after or 1 hour before taking up to a 400mg dose of ibuprofen.

MICROBIOLOGY

Not applicable

TOXICOLOGY

The clinical and pathological signs of poisoning from toxic and lethal oral doses of ASA have been extensively described for man, much less extensively for other species.

The \textit{acute toxicity} of ASA in animals has been studied and reviewed in detail by Boyd. The signs of poisoning in rats from doses in the lethal range are due to varying degrees of gastroenteritis, hepatitis, nephritis, pulmonary edema, encephalopathy, shock and minor toxic effects on other organs and tissues. Death is due to convulsions or cardiovascular shock. The major difference between species appears to be the ability to vomit toxic doses seen in man, cats and dogs, but not in mice, rats and rabbits. Otherwise, the pathological reaction to toxic doses of ASA is similar in all species in which such studies have been reported. The acute oral LD$_{50}$ values have been reported as being over 1.0 g/kg in man, cat and dog, 0.92 g/kg in female and 1.48 g/kg in male albino rats, 1.19 g/kg in guinea pig, 1.1 g/kg in mouse and 1.8 g/kg in rabbit.

\textit{Chronic toxicity} studies were reported in mice and rats. When ASA was administered at 2 to 20 times the maximum tolerated clinical dose to mice for up to one year, a dose-related deleterious effect was observed on mean survival time, number of young born and number of young raised to weaning age. No evidence of carcinogenic effect was found.

The chronic oral LD$_{50}$ in male albino rats has been reported as 0.24 g/kg/day when given for 100 days. At these daily doses ASA produced no anorexia and no loss of body weight. It did produce polydipsia, aciduria, diuresis, drowsiness, hyperreflexia, piloerection, rapid and deep respiration, tachycardia, and during the second month, soft stools, epistaxis, sialorrhea, dacryorrhea and death in hypothermic coma. Autopsy disclosed the presence of a hypertrophied stomach, renal congestion, mild hepatitis and pneumonitis. While teratogenic effects were noted in animals at near lethal doses, there is no evidence to indicate that ASA is teratogenic in man.
REFERENCES


Hoffman W, Forster W. Two year Cottbus reinfarction study with 30 mg ASA per day. Prostaglandins, Leukotrienes and Essential Fatty Acid 1991; 44: 159-69.


Jennings JJ, Harris WH, Sarmiento A. A clinical evaluation of Aspirin prophylaxis of


Medical Research Council’s General Practice Research Framework. Thrombosis prevention


Schafer A, Handin R. The role of platelets in thrombotic and vascular disease. Proj Cardio Dis
Schrör K. Acetylsalicylic acid. Chapter 3 Toxicity and Drug Safety: Section 3.2.2.2 Mode of Aspirin Action; WILEY-VCH Verlag GmbH & Co. KGaA Weinheim 2009; 180-181.


PART III: CONSUMER INFORMATION ONLY
PROVIDED BY HEALTH PROFESSIONALS
ASPIRIN® 81mg
acetylsalicylic acid delayed release tablets USP

ASPIRIN® 81mg Quick Chews®
acetylsalicylic acid tablets USP

ASPIRIN® Regular Strength
acetylsalicylic acid tablets USP, 325 mg

This leaflet is part III of a three-part “Product Monograph” published when ASPIRIN 81mg, ASPIRIN 81mg Quick Chews and ASPIRIN Regular Strength 325mg were approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about ASPIRIN 81mg, ASPIRIN 81mg Quick Chews and ASPIRIN Regular Strength 325mg. Contact your doctor or pharmacist if you have any questions about the drug. Also see package insert for additional information.

ABOUT THIS MEDICATION

What the medication is used for:
ASPIRIN 81mg, ASPIRIN 81 mg Quick Chews and ASPIRIN Regular Strength 325mg can help save your life in the following situations:
- to help prevent a first heart attack in those who are at increased risk, or
- to help prevent a second heart attack or stroke in those who have already had such an event

ASPIRIN may help save your life if you think you are having a heart attack.

FOR PREVENTION OF A FIRST NON-FATAL HEART ATTACK (DAILY THERAPY):
Your doctor may recommend you take ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg to help reduce the risk of a first non-fatal heart attack because you are at risk of having a heart attack. There is no evidence that this product reduces the risk of a first fatal heart attack, nor first strokes (fatal and non-fatal), nor death due to any cardiovascular problems. Your doctor will assess the appropriate balance of possible benefit of this product against the potential risk of stomach bleeding and stroke. Factors that increase your risk include high blood pressure, high cholesterol, diabetes, family history of heart disease, increased age, overweight and smoking. You should follow your doctor’s instructions carefully. Please notify your doctor if you intend to stop taking this medication.

USE DURING A HEART ATTACK
If you think you are having a heart attack, call 911 immediately then, chew or crush and swallow two ASPIRIN 81mg or ASPIRIN 81mg Quick Chews tablets or one ASPIRIN 325mg tablet. It is important to chew or crush the product, to ensure this medicine quickly works. Then get to a hospital immediately for medical attention. Inform the emergency services / hospital that you have taken ASPIRIN. Taking ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg at the first signs and symptoms can reduce your risk of dying from the heart attack.

The signs and symptoms of a heart attack include:
- uncomfortable pressure, fullness, squeezing or pain in the centre of the chest that lasts more than a few minutes, or goes away quickly and comes back,
- pain that spreads to the shoulders, neck or arms,
- chest discomfort with lightheadedness, fainting, sweating, nausea or shortness of breath.

Chest pain is the most common symptom in both sexes, but women may also experience other symptoms such as unusual fatigue that gets worse with activity, difficulty of breathing, heartburn/nausea and /or vomiting unrelied by antacids, tightening and pain in the chest that may extend into the neck, jaws and shoulders, general feeling of weakness, paleness, sweating)

At the hospital, the doctor will then recommend appropriate therapy.

FOR PREVENTION OF A SECOND HEART ATTACK OR STROKE (DAILY THERAPY)
Your doctor may recommend you take ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg daily to help prevent a second heart attack or stroke. After having experienced a first heart attack or stroke, you can be at increased risk of experiencing a second one. You may also be at risk for heart disease and stroke because you may be overweight, a smoker, have an inactive lifestyle, high blood pressure, are under stress or have high blood cholesterol.

Following your doctor’s instructions concerning the use of ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg and the changes in diet, exercise and lifestyle he/she may have prescribed, will provide you with your best opportunity to avoid experiencing a second heart attack or stroke. Always contact your doctor if you experience any difficulties.

What it does:
ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg belongs to a group of medicines called antiplatelet drugs. Platelets are very small structures in blood, smaller than red or white blood cells, which clump together during blood clotting. By preventing this clumping, antiplatelet drugs reduce the chances of blood clots forming (a process called thrombosis).

When it should not be used:
DO NOT TAKE if you:
- are allergic to ASA, salicylates, non-steroidal anti-inflammatory drugs (NSAIDs)/pain relievers/fever reducers, or other ingredients in the product
- have an ulcer, history of ulcers or are prone to bleeding
- have active or severe liver or kidney disease or congestive heart failure
- have a history of asthma caused by salicylates or other NSAIDs.
- are using methotrexate at doses of 15mg/week or more
- are in the last trimester of pregnancy because it may cause problems in the unborn child or complications during delivery

What the medicinal ingredient is:
acetylsalicylic acid (ASA)

What the important nonmedicinal ingredients are:
ASPIRIN 81mg – carnuba wax, corn starch, croscarmellose sodium, FD&C (Blue #1, #2 – Aluminum Lake), hypromellose, lactose monohydrate, methacrylic acid and ethyl acrylate copolymer, microcrystalline cellulose, polyisobutylene, propylene glycol, shellac, sodium lauryl sulphate, titanium dioxide, triacetin.

ASPIRIN 81mg Quick Chews – corn starch, dextrose, FD&C
Yellow #6 Aluminum Lake, orange flavour, sodium cyclamate. ASPIRIN Regular Strength 325mg – corn starch, hypromellose, powdered cellulose, triacetin.

**What dosage forms it comes in:**
ASPIRIN 81mg, ASPIRIN 81mg Quick Chews and ASPIRIN Regular Strength 325mg comes in enteric coated (delayed release), chewable tablets and tablets.

**WARNINGS AND PRECAUTIONS**

Your doctor will have asked you many questions about your health, lifestyle, and medications before recommending ASPIRIN 81mg, ASPIRIN 81mg Quick Chews and ASPIRIN Regular Strength 325mg. That is why it is very important that you tell your doctor all such information. If you have forgotten to tell your doctor about any of the following, call your doctor or pharmacist before you take this medicine (or any medicine):

- Asthma, high blood pressure, heart disease, gout or other serious conditions
- Age 60 years or older
- Stomach problems such as heartburn

**STOMACH BLEEDING WARNING:** contains a NSAID which may cause severe stomach bleeding

- Impaired liver/kidney or impaired cardiovascular circulation (renal vascular disease, congestive heart failure, volume depletion, major surgery, sepsis or major hemorrhagic events)
- History of blood clotting defects
- Severe anemia
- Severe glucose-6-phosphate dehydrogenase (G6PD) deficiency
- Are trying to conceive, pregnant or breast-feeding
- Will be having surgery in five to seven days

**CAUTION:** Contains enough drug to seriously harm a child; KEEP OUT OF THEIR REACH. DO NOT GIVE to children/teenagers less than 18 years of age who have chicken pox or cold/flu symptoms before a doctor is consulted about Reye’s Syndrome, a rare but serious illness reported to be associated with ASA.

**INTERACTIONS WITH THIS MEDICATION**

Tell your doctor if you are taking any prescription or non-prescription drugs including blood thinners, acetaminophen, anticonvulsants, anti-diabetic/arthritis/gout medicines, digoxin, glucocorticoids, methotrexate, selective-serotonin re-uptake inhibitors (a type of antidepressant), diuretics, ACE inhibitors (medication for high blood pressure), or are having 3 or more alcoholic drinks per day. NSAIDs (i.e. ibuprofen or naproxen) may interfere with the heart protective benefits of ASPIRIN. Patients should talk to their doctor if they are on an ASPIRIN regimen and take NSAIDs for pain.

**PROPER USE OF THIS MEDICATION**

**Usual dose:**

**DIRECTIONS (Adults ≥18 years): During a heart attack:**
Call 911, then, crush or chew 2 – ASPIRIN 81mg or ASPIRIN 81mg Quick Chews tablets or 1 – ASPIRIN Regular Strength 325mg tablet/caplet.

**For prevention of a first heart attack or for the prevention of a second heart attack or stroke:** ASPIRIN 81mg or ASPIRIN 81mg Quick Chews – 1 to 4 tablets daily, depending on your doctor’s instructions. ASPIRIN Regular Strength 325mg – 1 tablet/caplet daily, depending on your doctor’s instructions. You should take this medicine at the same time every day. This will help you to remember to take your medication. For maximum effectiveness, it is very important to take ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg every day as directed by your doctor. Do not take more tablets than your doctor recommends. Your doctor may tell you to take ASPIRIN 81mg, ASPIRIN 81mg Quick Chews or ASPIRIN Regular Strength 325mg with other medications; he or she may also tell you to eat special foods, exercise or take other steps to safeguard your health.

For daily therapy ASPIRIN 81mg, tablets should be swallowed whole for the medicine to work properly. ASPIRIN 81mg tablets have a special enteric coating, which allows the tablets to pass undissolved through the stomach and on into the intestine. By dissolving in the intestine rather than the stomach, the risk of stomach upset is reduced in those with a sensitive stomach. Therefore, to maintain this protection, the tablets should not be crushed or broken.

For daily therapy with ASPIRIN 81mg Quick Chews, tablets could be chewed or swallowed whole.

For daily therapy with ASPIRIN Regular Strength 325mg, tablets could be swallowed whole.

**Can I Continue to Take ASPIRIN for Relief of Headache, Fever or Arthritis Pain?**
ASPIRIN 81mg or ASPIRIN 81mg Quick Chews is specially designed to reduce your risk of dying during a heart attack, to help prevent a first heart attack in those who are at increased risk and to help prevent a second heart attack or stroke. It is a smaller dose than you would need to take for a headache or other types of pain and is unlike other pain reliever products such as acetaminophen or NSAIDs e.g. ibuprofen, naproxen. Ask your doctor or pharmacist about other ASPIRIN products available (or other pain relievers such as acetaminophen, ibuprofen, naproxen or salicylates) and the correct dosage for the relief of your headache, fever or arthritic pain.

Always consult with your doctor or pharmacist before taking other medications.

**Overdose:**

In case of overdose call a doctor or poison control centre immediately, even if there are no symptoms.

**Missed Dose:**
If you forget to take your medication, take it when you remember. But do not take extra medication to compensate for a missed dosage unless instructed by your doctor.

**SIDE EFFECTS AND WHAT TO DO ABOUT THEM**

Like all medicines, ASPIRIN may occasionally produce unwanted side effects. You should call your doctor if you experience any of the following: nausea, vomiting; stomach irritation, or pain; if you notice that you are ‘bruising’ more easily than you were before starting a daily dose of ASPIRIN. Regular daily use of alcohol while on ASPIRIN daily therapy may increase your risk of developing gastrointestinal bleeding. This is not a complete list of side effects. For any unexpected effects while taking ASPIRIN Regular Strength, ASPIRIN 81mg, or ASPIRIN 81mg Quick Chews, contact your doctor or pharmacist.

**SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM**

Stop use and call your doctor if you experience an allergic reaction (skin rash, hives, itching, swelling of eyes, face, lips, tongue, or throat, wheezing or breathing difficulties); stomach
bleeding (feel faint, bloody vomit, vomit that looks like coffee grounds, bright red blood in stools, black or tarry stools, stomach pain that does not get better); loss of hearing, ringing or buzzing in ears or bleeding.

**HOW TO STORE IT**

Keep out of reach of children.

ASPIRIN 81mg and ASPIRIN 81mg Quick Chews: Store between 15-30°C.

ASPIRIN Regular Strength: Store between 15-25°C.

**REPORTING SUSPECTED SIDE EFFECTS**

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information:

3 ways to report:

- **Online** at MedEffect (http://hc-sc.gc.ca/dhp- mps/medeff/index-eng.php);
- By calling 1-866-234-2345 (toll-free), or
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program
    Health Canada, Postal Locator 0701E
    Ottawa, ON K1A 0K9

- Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp- mps/medeff/index-eng.php)

**NOTE:** Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

MORE INFORMATION

This document plus the full product monograph, prepared for health professionals can be found at: www.Bayer.ca

This leaflet was prepared by Bayer Inc., Consumer Care

Mississauga, ON L4W 5R6

Last revised: April 13th, 2017

®Bayer, Bayer Cross, ASPIRIN and Quick Chews are registered trademarks of Bayer AG, used under licence.
PART III: CONSUMER INFORMATION

ASPIRIN® 81mg
acetylsalicylic acid (ASA) delayed-release tablets, USP
This leaflet is part III of a three-part “Product Monograph” published when ASPIRIN® 81 mg was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about ASPIRIN® 81 mg. Contact your doctor or pharmacist if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:
- ASPIRIN 81mg is for doctor supervised long-term preventive therapy.
- ASPIRIN may help save your life if you think you are having a heart attack.

What it does:
ASPIRIN 81mg is for doctor supervised long-term preventive therapy.

USE DURING A HEART ATTACK

If you think you are having a heart attack, call 911 immediately then, chew or crush and swallow two ASPIRIN 81mg tablets. It is important to chew or crush the product, to ensure this medicine works quickly. Then get to a hospital immediately for medical attention. Inform the emergency services / hospital that you have taken ASPIRIN. Taking ASPIRIN 81mg, at the first signs and symptoms can reduce your risk of dying from a heart attack.

The signs and symptoms of a heart attack include:
- uncomfortable pressure, fullness, squeezing or pain in the centre of the chest that lasts more than a few minutes, or goes away quickly and comes back,
- pain that spreads to the shoulders, neck or arms,
- chest discomfort with light-headedness, fainting, sweating, nausea or shortness of breath.

Chest pain is the most common symptom in both sexes, but women may also experience other symptoms such as unusual fatigue that gets worse with activity, difficulty of breathing, heartburn/nausea and /or vomiting unrelied by antacids, tightening and pain in the chest that may extend into the neck, jaws and shoulders, general feeling of weakness, paleness, sweating.

At the hospital, the doctor will then recommend appropriate therapy.

DO NOT TAKE, If you:
- are allergic to ASA, salicylates, non-steroidal anti-inflammatory drugs (NSAIDs)/pain relievers/fever reducers or other ingredients in the product,
- have an ulcer, history of ulcers or are prone to bleeding
- have active or severe liver or kidney disease or congestive heart failure
- have a history of asthma caused by salicylates or other NSAIDs
- are using methotrexate at doses of 15mg/week or more
- are in the last trimester of pregnancy because it may cause problems in the unborn child or complications during delivery

What the medicinal ingredient is:
acetylsalicylic acid (ASA)

What the important nonmedicinal ingredients are:
carnauba wax, corn starch, croscarmellose sodium, FD&C (Blue #1, #2 - Aluminum Lake), hypromellose, lactose monohydrate, methacrylic acid and ethyl acrylate copolymer, microcrystalline cellulose, polysorbate 80, powdered cellulose, propylene glycol, shellac, sodium lauryl sulphate, titanium dioxide, tragaretin.

What dosage forms it comes in:
ASPIRIN® 81mg comes in enteric-coated tablets

WARNINGS AND PRECAUTIONS

Your doctor will have asked you many questions about your health, lifestyle, and medications before recommending ASPIRIN 81mg. That is why it is very important that you tell your doctor all such information. If you have forgotten to tell your doctor about any of the following, call your doctor or pharmacist before you take this medicine (or any medicine):

- asthma, high blood pressure, heart disease, gout or other serious conditions
- age 60 years or older
- stomach problems such as heartburn

STOMACH BLEEDING WARNING: contains a NSAID which may cause severe stomach bleeding
- impaired liver/kidney or impaired cardiovascular circulation (renal vascular disease, congestive heart failure, volume depletion, major surgery, sepsis or major hemorrhagic events)
- history of blood clotting defects
- severe anemia
- severe glucose-6-phosphate dehydrogenase (G6PD) deficiency
- are trying to conceive, pregnant or breast-feeding or will be having surgery in five to seven days

CAUTION: Contains enough drug to seriously harm a child; KEEP OUT OF THEIR REACH. DO NOT GIVE to children/teenagers less than 18 years of age who have chicken pox or cold/flu symptoms before a doctor is consulted about Reye’s Syndrome, a rare serious illness reported to be associated with ASA.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor if you are taking any prescription or nonprescription drugs including blood thinners, acetaminophen, anticonvulsants, anti-diabetic/arthritis/gout medicines, digoxin, glucocorticoids, methotrexate, selective serotonin re-uptake inhibitors (a type of antidepressants), diuretics, ACE inhibitors (medication for high blood pressure), or if you are having 3 or more alcoholic drinks per day. Do not use NSAIDs (i.e. ibuprofen or naproxen) if you are taking ASPIRIN 81mg for preventive therapy without talking to a doctor or pharmacist, as NSAIDs may interfere with the preventive benefits of ASPIRIN 81mg.

PROPER USE OF THIS MEDICATION

Usual dose:
DIRECTIONS (Adults ≥ 18 years): For doctor supervised long-term preventive therapy: 1 to 4 tablets daily, depending on your doctor’s instructions. You should take this medicine at the same time every day. This will help you to remember to take your medication. For maximum effectiveness, it is very important to take ASPIRIN 81mg every day as directed by your doctor. Do not take more tablets than your doctor recommends. Your doctor may tell you to take ASPIRIN 81mg with other medications; he or she may also tell you to eat special foods, exercise or take other steps to safeguard your health. ASPIRIN 81mg tablets have a special enteric coating, which allows them to pass undissolved through the stomach and into the intestine. By dissolving in the intestine rather than the stomach, the risk of stomach upset is reduced. Therefore, to maintain this protection, the tablets should not be crushed or broken.

During a heart attack: Call 911, then, chew or crush 2 tablets.

Can I Continue to Take ASPIRIN for Relief of Headache, Fever or Arthritis Pain?
ASPIRIN 81mg is specially designed for doctor supervised long-term preventive therapy. It is a smaller dose than you would need to take for a headache or other types of pain and is unlike other pain reliever products such as acetaminophen or NSAIDs e.g., ibuprofen, naproxen. Ask your doctor or pharmacist about other ASPIRIN products available (or other pain relievers such as acetaminophen, ibuprofen, naproxen or salicylates) and the correct dosage for the relief of your headache, fever or arthritic pain. Always consult with your doctor or pharmacist before taking other medications.

Overdose: In case of overdose call a doctor or poison control centre immediately, even if there are no symptoms.

Missed Dose: If you forget to take your medication, take it when you remember. But do not take extra medication to compensate for a
missed dosage unless instructed by your doctor.

**SIDE EFFECTS AND WHAT TO DO ABOUT THEM**

Like all medicines, ASPIRIN may occasionally produce unwanted side effects. You should call your doctor if you experience: nausea, vomiting; stomach irritation, or pain; if you notice that you are ‘bruising’ more easily than you were before starting a daily dose of ASPIRIN. Regular daily use of alcohol while on ASPIRIN daily therapy may increase your risk of developing gastrointestinal bleeding. This is not a complete list of side effects. For any unexpected effects while taking ASPIRIN 81mg, contact your doctor or pharmacist.

**SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM**

Stop use and call your doctor if you experience an allergic reaction (skin rash, hives, itching, swelling of eyes, face, lips, tongue, or throat, wheezing or breathing difficulties); stomach bleeding (feel faint, bloody vomit, vomit that looks like coffee grounds, bright red blood in stools, black or tarry stools, stomach pain that does not get better); loss of hearing, ringing or buzzing in ears, or bleeding.

**HOW TO STORE IT**

Keep out of reach of children.

Store between 15-30°C.

**REPORTING SUSPECTED SIDE EFFECTS**

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information:

**3 ways to report:**

- **Online** at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php);
- By calling 1-866-234-2345 (toll-free), or
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program
    Health Canada, Postal Locator 0701E
    Ottawa, ON K1A 0K9

- Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php)

**NOTE:** Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

**MORE INFORMATION**

This document plus the full product monograph, prepared for health professionals can be found at: www.Bayer.ca.

This leaflet was prepared by Bayer Inc., Consumer Care
Mississauga, ON L4W 5R6. Last revised: April 13th, 2017

®Bayer, Bayer Cross and ASPIRIN are registered trademarks of Bayer AG, used under licence.
PART III: CONSUMER INFORMATION

ASPIRIN® 81mg Quick Chews®
acetylsalicylic acid (ASA) tablets USP

This leaflet is part III of a three-part “Product Monograph” published when ASPIRIN® 81mg Quick Chews was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about ASPIRIN® 81mg Quick Chews. Contact your doctor or pharmacist if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:
- ASPIRIN 81mg Quick Chews is for doctor supervised long-term preventive therapy.
- ASPIRIN may help save your life if you think you are having a heart attack.

What it does:
ASPIRIN 81mg Quick Chews is for doctor supervised long-term preventive therapy.

USE DURING A HEART ATTACK

If you think you are having a heart attack, call 911 immediately then, chew or crush and swallow two ASPIRIN 81mg Quick Chews tablets. It is important to chew or crush the product, to ensure this medicine works quickly. Then get to a hospital immediately for medical attention. Inform the emergency services/hospital that you have taken ASPIRIN. Taking ASPIRIN 81mg Quick Chews, at the first signs and symptoms can reduce your risk of dying from a heart attack.

The signs and symptoms of a heart attack include:
- uncomfortable pressure, fullness, squeezing or pain in the centre of the chest that lasts more than a few minutes, or goes away quickly and comes back,
- pain that spreads to the shoulders, neck or arms,
- chest discomfort with lightheadedness, fainting, sweating, nausea or shortness of breath.

Chest pain is the most common symptom in both sexes, but women may also experience other symptoms such as unusual fatigue that gets worse with activity, difficulty of breathing, heartburn/nausea and/or vomiting unrelied by antacids, tightening and pain in the chest that may extend into the neck, jaws and shoulders, general feeling of weakness, paleness, sweating.

At the hospital, the doctor will then recommend appropriate therapy.

When it should not be used:
DO NOT TAKE if you:
• are allergic to ASA, salicylates, non-steroidal anti-inflammatory drugs (NSAIDs)/pain relievers/fever reducers or other ingredients in the product
• have an ulcer, history of ulcers or are prone to bleeding
• have had liver or severe liver or kidney disease or congestive heart failure
• have a history of asthma caused by salicylates or other NSAIDs
• are using methotrexate at doses of 15mg/week or more
• are in the last trimester of pregnancy because it may cause problems in the unborn child or complications during delivery

What the medicinal ingredient is:
acetylsalicylic acid (ASA)

What the important nonmedicinal ingredients are:
corn starch, dextrose, FD&C Yellow #6 Aluminum Lake, orange flavour, sodium cyclamate.

What dosage forms it comes in:
ASPIRIN 81mg Quick Chews comes in chewable tablets

WARNINGS AND PRECAUTIONS

Your doctor will have asked you many questions about your health, lifestyle, and medications before recommending ASPIRIN 81mg Quick Chews. That is why it is very important that you tell your doctor all such information. If you have forgotten to tell your doctor about any of the following, call your doctor or pharmacist before you take this medicine (or any medicine):
- asthma, high blood pressure, heart disease, gout or other serious conditions
- age 60 years or older
- stomach problems such as heartburn

STOMACH BLEEDING WARNING: contains a NSAID which may cause severe stomach bleeding
- impaired liver/kidney or impaired cardiovascular circulation (renal vascular disease, congestive heart failure, volume depletion, major surgery, sepsis or major hemorrhagic events)
- history of blood clotting defects
- severe anemia
- severe glucose-6-phosphate dehydrogenase (G6PD) deficiency
- are trying to conceive, pregnant or breast-feeding or
- will be having surgery in five to seven days

CAUTION: Contains enough drug to seriously harm a child; KEEP OUT OF THEIR REACH. DO NOT GIVE to children/teenagers less than 18 years of age who have chicken pox or cold/flu symptoms before a doctor is consulted about Reye’s Syndrome, a rare but serious illness reported to be associated with ASA.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor if you are taking any prescription or nonprescription drugs including blood thinners, acetaminophen, anticonvulsants, anti-diabetic/arthritis/gout medications, digoxin, glucocorticoids, methotrexate, selective serotonin re-uptake inhibitors (a type of antidepressant), diuretics, ACE inhibitors (medication for high blood pressure), or if you are having 3 or more alcoholic drinks per day.

Do not use NSAIDs (i.e. ibuprofen or naproxen) if you are taking ASPIRIN 81mg Quick Chews for preventive therapy without talking to a doctor or pharmacist, as NSAIDs may interfere with the preventive benefits of ASPIRIN 81mg Quick Chews.

PROPER USE OF THIS MEDICATION

Usual dose:
DIRECTIONS (Adults ≥ 18 years): For doctor supervised long-term preventive therapy: 1 to 4 tablets daily, depending on your doctor’s instructions. You should take this medicine at the same time every day. This will help you to remember to take your medication. For maximum effectiveness, it is very important to take ASPIRIN 81mg Quick Chews every day as directed by your doctor. Do not take more tablets than your doctor recommends. Your doctor may tell you to take ASPIRIN 81mg Quick Chews with other medications; he or she may also tell you to eat special foods, exercise or take other steps to safeguard your health. For daily therapy with ASPIRIN 81mg Quick Chews, tablets could be chewed or swallowed whole.

During a heart attack: Call 911, then, crush or chew 2 tablets.

Can I Continue to Take ASPIRIN for Relief of Headache, Fever or Arthritis Pain?
ASPIRIN 81mg Quick Chews is specially designed for doctor supervised long-term preventive therapy. It is a smaller dose than you would need to take for a headache or other types of pain and is unlike other pain reliever products such as acetaminophen, or NSAIDs e.g. ibuprofen, naproxen. Ask your doctor or pharmacist about other ASPIRIN products available (or other pain relievers such as acetaminophen, ibuprofen, naproxen or salicylates) and the correct dosage for the relief of your headache, fever or arthritic pain. Always consult with your doctor or pharmacist before taking other medications.

Overdose:
In case of overdose call a doctor or poison control centre immediately, even if there are no symptoms.

Missed Dose:
If you forget to take your medication, take it when you remember. But do not take extra medication to compensate for a missed dosage unless instructed by your doctor.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Like all medicines, ASPIRIN may occasionally produce unwanted side effects.
You should call your doctor if you experience: nausea, vomiting, stomach irritation, or pain; if you notice that you are ‘bruising more easily than you were before starting a daily dose of ASPIRIN.

Regular daily use of alcohol while on ASPIRIN daily therapy may increase your risk of developing gastrointestinal bleeding. This is not a complete list of side effects. For any unexpected effects while taking ASPIRIN 81mg Quick Chews, contact your doctor or pharmacist.

**SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM**

Stop use and call your doctor if you experience an allergic reaction (skin rash, hives, itching, swelling of eyes, face, lips, tongue, or throat, wheezing or breathing difficulties); stomach bleeding (feel faint, bloody vomit, vomit that looks like coffee grounds, bright red blood in stools, black or tarry stools, stomach pain that does not get better), loss of hearing, ringing or buzzing in ears, or bleeding.

**HOW TO STORE IT**

Keep out of reach of children.

Store between 15-30°C.

**REPORTING SUSPECTED SIDE EFFECTS**

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information:

**3 ways to report:**
- Online at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php);
- By calling 1-866-234-2345 (toll-free), or
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program
    Health Canada, Postal Locator 0701E
    Ottawa, ON K1A 0K9

- Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php)

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

**MORE INFORMATION**

This document plus the full product monograph, prepared for health professionals can be found at: www.Bayer.ca.

This leaflet was prepared by Bayer Inc., Consumer Care
Mississauga, ON L4W 5R6

Last revised: April 13th, 2017

®Bayer, Bayer Cross, ASPIRIN and Quick Chews are registered trademarks of Bayer AG, used under licence.
PART III: CONSUMER INFORMATION
ASPIRIN® Regular Strength

acetylsalicylic acid (ASA) tablets, USP, 325mg

This leaflet is part III of a three-part “Product Monograph” published when ASPIRIN® Regular Strength was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about ASPIRIN® Regular Strength. Contact your doctor or pharmacist if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:
- ASPIRIN is for fast and effective relief of headaches, fever, the pain and discomfort of colds and flu, pain of inflammation, arthritic or rheumatic pain, minor aches and pain, pain due to muscle sprains and strains, joint and body pain, pain of menstrual cramps, toothache and pain of dental work or intervention. ASPIRIN is also for doctor supervised long-term preventive therapy. ASPIRIN may help save your life if you think you are having a heart attack.

What it does:
ASPIRIN quickly and effectively relieves pain. ASPIRIN is an effective pain reliever which is easy-to-swallow and dissolves quickly because of its micro-thin coating. It doesn’t dissolve in the mouth, so there’s no bitter taste. ASPIRIN Regular Strength contains the same trusted ingredient as Extra Strength ASPIRIN and is recommended for doctor supervised adult long-term preventive therapy. Speak to your doctor to determine if ASPIRIN Regular Strength for doctor supervised long-term preventive therapy is right for you.

USE DURING A HEART ATTACK
If you think you are having a heart attack, call 911 immediately then, chew or crush and swallow one ASPIRIN Regular Strength tablet/caplet. It is important to chew or crush the product, to ensure this medicine works quickly. Then get to a hospital immediately for medical attention. Inform the emergency services/hospital that you have taken ASPIRIN. Taking ASPIRIN Regular Strength, at the first signs and symptoms can reduce your risk of dying from a heart attack.

The signs and symptoms of a heart attack include:
- uncomfortable pressure, fullness, squeezing or pain in the centre of the chest that lasts more than a few minutes, or goes away quickly and comes back,
- pain that spreads to the shoulders, neck or arms,
- chest discomfort with lightheadedness, fainting, sweating, pain that spreads to the shoulders, neck or arms, goes away quickly and comes back,
- uncomfortable pressure, fullness, squeezing or pain in the centre of the chest that lasts more than a few minutes, or goes away quickly and comes back,
- pain that spreads to the shoulders, neck or arms,
- chest discomfort with lightheadedness, fainting, sweating, nausea or shortness of breath.

Chest pain is the most common symptom in both sexes, but women may also experience other symptoms such as unusual fatigue that gets worse with activity, difficulty of breathing, heartburn/nausea and/or vomiting unrelieved by antacids, tightening and pain in the chest that may extend into the neck, jaws and shoulders, general feeling of weakness, paleness, sweating.

At the hospital, the doctor will then recommend appropriate therapy.

When it should not be used:
DO NOT TAKE if you:
- are allergic to ASA, salicylates, non-steroidal anti-inflammatory drugs (NSAIDs)/pain relievers/fever reducers, or other ingredients in the product
- have an ulcer, history of ulcers or are prone to bleeding
- have active or severe liver or kidney disease or congestive heart failure
- have a history of asthma caused by salicylates or other NSAIDs
- are using methotrexate at doses of 15mg/week or more
- are in the last trimester of pregnancy because it may cause problems in the unborn child or complications during delivery

When using for pain/fever, do not use with other drugs with ASA, salicylates, or other NSAIDs e.g. ibuprofen, naproxen.

What the medicinal ingredient is:
acetylsalicylic acid (ASA)

What the important nonmedicinal ingredients are:
corn starch, hypromellose, powdered cellulose, triacetin.

What dosage forms it comes in:
ASPIRIN® Regular Strength comes in tablets and caplets.

WARNINGS AND PRECAUTIONS

Your doctor will have asked you many questions about your health, lifestyle, and medications before recommending ASPIRIN. That is why it is very important that you tell your doctor all such information. If you have forgotten to tell your doctor about any of the following, call your doctor or pharmacist before you take this medicine (or any medicine):
- asthma, high blood pressure, heart disease, gout or other serious conditions
- age 60 or older
- stomach problems such as heartburn

STOMACH BLEEDING WARNING: contains a NSAID which may cause severe stomach bleeding:
- impaired liver/kidney or impaired cardiovascular circulation (renal vascular disease, congestive heart failure, volume depletion, major surgery, sepsis or major hemorrhagic events)
- history of blood clotting defects
- severe anemia
- severe glucose-6-phosphate dehydrogenase (G6PD) deficiency
- are trying to conceive, pregnant or breast-feeding or will be having surgery in five to seven days

CAUTION: Contains enough drug to seriously harm a child;
KEEP OUT OF THEIR REACH. DO NOT GIVE to children/teenagers less than 18 years of age who have chicken pox or cold/flu symptoms before a doctor is consulted about Reye’s Syndrome, a rare but serious illness reported to be associated with ASA.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor if you are taking any prescription or nonprescription drugs including blood thinners, acetaminophen, anticonvulsants, anti-depressants/arthritis/gout medicines, digoxin, glucocorticoids, methotrexate, selective serotonin re-uptake inhibitors (a type of antidepressant), diuretics, ACE inhibitors (medication for high blood pressure), or if you are having 5 or more alcoholic drinks per day. When using for pain/fever, DO NOT USE with other drugs with ASA, salicylates or NSAIDs e.g. ibuprofen, naproxen.

Do not use NSAIDs (i.e. ibuprofen or naproxen) if you are taking ASPIRIN for preventive therapy without talking to a doctor or pharmacist, as NSAIDs may interfere with the preventive benefits of ASPIRIN.

PROPER USE OF THIS MEDICATION

Usual dose:
DIRECTIONS (Adults ≥18 years): Dose for Pain And Fever: 1 or 2 tablets/caplets with a glass (250mL) of milk or water every 4 to 6 hours as necessary, up to a maximum of 12 tablets/caplets/day. DO NOT take more than the recommended dose unless advised by a doctor. Use the smallest effective dose. Consult a doctor if fever lasts more than 3 days, pain lasts longer than 5 days, new symptoms occur or if redness/swelling is present.

In conditions affecting children under 12 years, consult your doctor.

Dose for doctor supervised long-term preventive therapy: 1 tablet/caplet daily as directed by your doctor.

During a heart attack: Call 911, then, crush or chew 1 tablet/caplet.

Overdose: In case of overdose call a doctor or poison control centre immediately, even if there are no symptoms.

Missed Dose: If you forget to take your medication, take it when you remember. But do not take extra medication to compensate for a missed dosage unless instructed by your doctor.
SIDE EFFECTS AND WHAT TO DO ABOUT THEM
Like all medicines, ASPIRIN may occasionally produce unwanted side effects.

You should call your doctor if you experience: nausea, vomiting; stomach irritation, or pain; if you notice that you are ‘bruising’ more easily than you were before starting a daily dose of ASPIRIN.

Regular daily use of alcohol while on ASPIRIN daily therapy may increase your risk of developing gastrointestinal bleeding.

SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM

Stop use and call your doctor if you experience an allergic reaction (skin rash, hives, itching, swelling of eyes, face, lips, tongue, or throat, wheezing or breathing difficulties); stomach bleeding (feel faint, bloody vomit, vomit that looks like coffee grounds, bright red blood in stools, black or tarry stools, stomach pain that does not get better); loss of hearing, ringing or buzzing in the ears or bleeding.

This is not a complete list of side effects. For any unexpected effects while taking ASPIRIN, contact your doctor or pharmacist.

HOW TO STORE IT
Keep out of reach of children.
Store between 15-25°C.

REPORTING SUSPECTED SIDE EFFECTS
You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information:

3 ways to report:
• Online at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php);
• By calling 1-866-234-2345 (toll-free), or
• By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program Health Canada, Postal Locator 0701E
  Ottawa, ON K1A 0K9

• Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php)

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

MORE INFORMATION
This document plus the full product monograph, prepared for health professionals can be found at: www.Bayer.ca
This leaflet was prepared by Bayer Inc., Consumer Care Mississauga, ON L4W 5R6
Last revised: April 13th, 2017

® Bayer, Bayer Cross and ASPIRIN are registered trademarks of Bayer AG, used under licence.
PART III: CONSUMER INFORMATION

ASPIRIN® Extra Strength
acetylsalicylic acid (ASA) tablets, USP, 500mg

This leaflet is part III of a three-part “Product Monograph”
published when ASPIRIN® Extra Strength was approved for
sale in Canada and is designed specifically for Consumers. This
leaflet is a summary and will not tell you everything about
ASPIRIN® Extra Strength. Contact your doctor or pharmacist
if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:
- ASPIRIN is for fast and effective relief of headaches, fever,
  the pain and discomfort of colds and flu, pain of inflammation,
  arthritic or rheumatic pain, minor aches and pain, pain due to
  muscle sprains and strains, joint and body pain, pain of menstrual
  cramps, toothache and pain of dental work or intervention.
  ASPIRIN Extra Strength is also clinically proven to relieve
  migraine pain and associated symptoms (sensitivity to light and
  sound) to improve the overall quality of life and let you get on
  with your day.

What it does:
ASPIRIN quickly and effectively relieves pain. ASPIRIN is an
effective pain reliever which is easy-to-swallow and dissolves
quickly because of its micro-thin coating. It doesn’t dissolve in
the mouth, so there’s no bitter taste. For your tough pain, try
ASPIRIN Extra Strength (500mg).

When it should not be used:
DO NOT TAKE if you:
- are allergic to ASA, salicylates, non-steroidal anti-
  inflammatory drugs (NSAIDs)/pain relievers/fever
  reducers or other ingredients in the product
- have an ulcer, history of ulcers or are prone to bleeding
- have active or severe liver or kidney disease or
  congestive heart failure
- have a history of asthma caused by salicylates or other
  NSAIDs
- are using methotrexate at doses of 15mg/week or more
- are in the last trimester of pregnancy because it may
  cause problems in the unborn child or complications
during delivery

Do not use with other drugs with ASA, salicylates, or other
NSAIDs e.g. ibuprofen, naproxen.

What the medicinal ingredient is:
acetylsalicylic acid (ASA)

What the important nonmedicinal ingredients are:
carnauba wax, corn starch, D&C Red # 7 Calcium Lake, FD&C
(Blue #2, Red #40 - Aluminum Lake), hypromellose, powdered
cellulose, propylene glycol, shellac, titanium dioxide, triacetin

What dosage forms it comes in:

ASPIRIN® Extra Strength comes in tablets

WARNINGS AND PRECAUTIONS

Call your doctor or pharmacist before you take this medicine (or
any medicine) if you have the following:

- asthma, high blood pressure, heart disease, gout or
  other serious conditions
- age 60 or older
- stomach problems such as heartburn

STOMACH BLEEDING WARNING: contains an
NSAID which may cause severe stomach bleeding

- impaired liver/kidney or impaired cardiovascular
  circulation (renal vascular disease, congestive heart
  failure, volume depletion, major surgery, sepsis or
  major hemorrhagic events)
- history of blood clotting defects
- severe anemia
- severe glucose-6-phosphate dehydrogenase (G6PD)
  deficiency
- are trying to conceive, pregnant or breast-feeding or
  will be having surgery in five to seven days

CAUTION: Contains enough drug to seriously harm a child;
KEEP OUT OF THEIR REACH. DO NOT GIVE to children/
teenagers less than 18 years of age who have chicken pox or
cold/flu symptoms before a doctor is consulted about Reye’s
Syndrome, a rare but serious illness reported to be associated
with ASA.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor if you are taking any prescription or
nonprescription drugs including blood thinners, acetaminophen,
anticonvulsants, anti-diabetic/arthritis/gout medicine, digoxin,
glucocorticoids, methotrexate, selective serotonin re-uptake
inhibitors (a type of antidepressant), diuretics, ACE inhibitors
(medication for high blood pressure), or if you are having 3 or
more alcoholic drinks per day. DO NOT USE with other drugs
with ASA, salicylates or NSAIDs e.g. ibuprofen, naproxen.

PROPER USE OF THIS MEDICATION

Usual dose:
DIRECTIONS (Adults ≥ 18 years): Dose for Pain And Fever:
1 or 2 tablets with a glass (250mL) of milk or water every 4 to 6
hours as necessary, up to 8 tablets daily. DO NOT take more
than the recommended dose unless advised by a doctor. Use the
smallest effective dose. Consult a doctor if fever lasts more
than 3 days, non-migraine pain lasts longer than 5 days, new
symptoms occur or redness/swelling is present. Not a standard
dosage unit, use only on advice of a doctor.

In conditions affecting children under 12 years, consult your
doctor.

Dose for Migraine and Associated Symptoms (light and sound
sensitivity): At onset of pain or symptoms, take 2 tablets with a
glass (250mL) of milk or water. Repeat every 4 to 6 hours as
needed, not to exceed the maximum of 8 tablets/day.

Missed Dose:
If you forget to take your medication, take it when you
remember. But do not take extra medication to compensate for a
missed dosage unless instructed by your doctor.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Like all medicines, ASPIRIN may occasionally produce
unwanted side effects.

You should call your doctor if you experience: nausea, vomiting;
stomach irritation, or pain; bruising.

This is not a complete list of side effects. For any unexpected
effects while taking ASPIRIN Extra Strength, contact your doctor
or pharmacist.

SERIOUS SIDE EFFECTS, HOW OFTEN THEY
HAPPEN AND WHAT TO DO ABOUT THEM

Stop use and call your doctor if you experience an allergic
reaction (skin rash, hives, itching, swelling of eyes, face, lips,
tongue, or throat, wheezing or breathing difficulties); stomach
bleeding (feel faint, bloody vomit, vomit that looks like coffee
grounds, bright red blood in stools, black or tarry stools, stomach
pain that does not get better); loss of hearing, ringing or buzzing
in the ears or bleeding.

HOW TO STORE IT

Keep out of reach of children.
Store between 15-25°C.
REPORTING SUSPECTED SIDE EFFECTS
You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information:

3 ways to report:
- Online at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php);
- By calling 1-866-234-2345 (toll-free), or
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program
  Health Canada, Postal Locator 0701E
  Ottawa, ON K1A 0K9

- Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (http://hc-sc.gc.ca/dhp-mps/medeff/index-eng.php)

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

MORE INFORMATION
This document plus the full product monograph, prepared for health professionals can be found at: www.Bayer.ca.
This leaflet was prepared by Bayer Inc., Consumer Care Mississauga, ON L4W 5R6 Last revised: April 13th, 2017

®Bayer, Bayer Cross and ASPIRIN are registered trademarks of Bayer AG, used under licence.