Helping Chronic Traumatic Encephalitis

A dash of Castor oil can make water wetter and thus help White matter in the brain to recover faster

Castor beans.

To a bottle of water add 1/2 cup of 100% Apple juice, and 3 drops of Castor Oil. Shake before drinking. Drink 3 to 4 glasses a day. This will increase the osmosis in the body and brain and help white matter to Heal + Recover.

Castor oil is a vegetable oil obtained by pressing the seeds of the castor oil plant (Ricinus communis). The common name "castor oil", from which the plant gets its name, probably comes from its use as a replacement for castoreum, a perfume base made from the dried perineal glands of the beaver (castor in Latin).

Castor oil is a colorless to very pale yellow liquid with a distinct taste and odor once first ingested. Its boiling point is 313 °C (595 °F) and its density is 961 kg/m³. It is a triglyceride in which approximately 90 percent of fatty acid chains are ricinoleate. Oleate and linoleates are the other significant components.
Castor oil and its derivatives are used in the manufacturing of soaps, lubricants, hydraulic and brake fluids, paints, dyes, coatings, inks, cold resistant plastics, waxes and polishes, nylon, pharmaceuticals and perfumes.

**Composition**

![Structure of the major component of castor oil.](image)

Castor oil is well known as a source of ricinoleic acid, a monounsaturated, 18-carbon fatty acid. Among fatty acids, ricinoleic acid is unusual in that it has a hydroxyl functional group on the 12th carbon. This functional group causes ricinoleic acid (and castor oil) to be more polar than most fats. The chemical reactivity of the alcohol group also allows chemical derivatization that is not possible with most other seed oils. Because of its ricinoleic acid content, castor oil is a valuable chemical in feedstocks, commanding a higher price than other seed oils. As an example, in July 2007, Indian castor oil sold for about US$0.90 per kilogram (US$0.41 per pound) whereas U.S. soybean, sunflower and canola oilseeds sold for about US$0.30 per kilogram (US$0.14 per pound).

<table>
<thead>
<tr>
<th>Acid name</th>
<th>Average Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ricinoleic acid</strong></td>
<td>85 – 95%</td>
</tr>
<tr>
<td><strong>Oleic acid</strong></td>
<td>2 – 6%</td>
</tr>
<tr>
<td>Fat</td>
<td>Percentage</td>
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<tr>
<td>--------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Linoleic acid</td>
<td>1 – 5%</td>
</tr>
<tr>
<td>α-Linolenic acid</td>
<td>0.5 – 1%</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>0.5 – 1%</td>
</tr>
<tr>
<td>Palmitic acid</td>
<td>0.5 – 1%</td>
</tr>
<tr>
<td>Dihydroxystearic acid</td>
<td>0.3 – 0.5%</td>
</tr>
<tr>
<td>Others</td>
<td>0.2 – 0.5%</td>
</tr>
</tbody>
</table>

**Medicine**

The United States Food and Drug Administration (FDA) has categorized castor oil as "generally recognized as safe and effective" (GRASE) for over-the-counter use as a laxative with its major site of action the small intestine where it is digested into ricinoleic acid.\[^{10}\] Despite castor oil being widely used to induce labor in pregnant women, to date there is not enough research to show whether it is effective to ripen the cervix or induce labor.\[^{11}\] Therapeutically, modern drugs are rarely given in a pure chemical state, so most active ingredients are combined with excipients or additives. Castor oil, or a castor oil derivative such as Kolliphor EL (polyethoxylated castor oil, a nonionic surfactant), is added to many modern drugs, including:

- **Miconazole**, an antifungal agent;\[^{12}\][^{13}\]
- **Paclitaxel**, a mitotic inhibitor used in cancer chemotherapy;\[^{14}\]
- Sandimmune (cyclosporine injection, USP), an immunosuppressant drug widely used in connection with organ transplant to reduce the activity of the patient's immune system;\[^{15}\]
- **Nelfinavir mesylate**, an HIV protease inhibitor;\[^{16}\]
- **Tacrolimus**, an immunosuppressive drug (contains HCO-60, polyoxyl 60 hydrogenated castor oil);\[^{citation needed}\]
- Xenaderm ointment, a topical treatment for skin ulcers, is a combination of Balsam of Peru, castor oil, and trypsin;\[^{17}\][^{18}\]
- Aci-Jel (composed of ricinoleic acid from castor oil, with acetic acid and oxyquinoline) is used to maintain the acidity of the vagina.\[^{19}\]
Alternative medicinal use

Advertisement of Castor oil as a medicine by Scott & Bowne company, 19th century

In naturopathy castor oil has been promoted as a treatment for a variety of human health conditions,[20] including cysts.[21] The claim has been made that applying it to the skin can help cure cancer. However, according to the American Cancer Society, "available scientific evidence does not support claims that castor oil on the skin cures cancer or any other disease."[22]

Turkey red oil

Turkey red oil, also called sulphonated (or sulfated) castor oil, is made by adding sulfuric acid to vegetable oils, most notably castor oil.[36] It was the first synthetic detergent after ordinary soap. It is used in formulating lubricants, softeners, and dyeing assistants.[37]

Biodiesel

Castor oil, like currently less expensive vegetable oils, can be used as feedstock in the production of biodiesel. The resulting fuel is superior for cold winters, due to its exceptionally low cloud and pour points.[38]

Initiatives to grow more castor for energy production, in preference to other oil crops, are motivated by social considerations. Tropical subsistence farmers would gain a cash crop.[39]

Punishment

Parents often punished children with a dose of castor oil.[40][41] Physicians recommended against the practice because they did not want medicines associated with punishment.[42]

A heavy dose of castor oil could be used as a humiliating punishment for adults, especially political dissenters. Colonial officials used it in the British Raj (India) to deal with recalcitrant servants.[43]

The most famous use as punishment came in Fascist Italy under Benito Mussolini. It was a favorite tool used by the Blackshirts to humiliate their opponents.[44][45][46] Political dissidents were force-fed large quantities of castor oil by Fascist squads. This technique was said to have been originated by Gabriele D'Annunzio. Victims of this treatment did sometimes die, as the dehydrating effects of the oil-induced diarrhea often complicated the recovery from the nightstick beating they also received along with the castor oil; however, even those victims who survived had to bear the humiliation of the laxative effects resulting from excessive consumption of the oil.[47]
It is said Mussolini's power was backed by "the bludgeon and castor oil". In lesser quantities, castor oil was also used as an instrument of intimidation, for example, to discourage civilians or soldiers who would call in sick either in the factory or in the military. It took decades after Mussolini's death before the myth of castor oil as a panacea for a wide range of diseases and medical conditions was totally demystified, as it was also widely administered to pregnant women, elderly or mentally-ill patients in hospitals in the false belief it had no negative side effects.

Today, the Italian terms manganello and olio di ricino, even used separately, still carry strong political connotations (especially the latter). These words are still used to satirize patronizing politicians, or the authors of disliked legislation. They should be used with caution in common conversation. The terms Usare l'olio di ricino, ("to use castor oil") and usarle il manganello ("to use the bludgeon") mean "to coerce or abuse", and can be misunderstood in the absence of proper context.

As a means of punishment or torture, force-feeding castor oil still lives on in animated cartoons such as Tom and Jerry.

**Safety**

The castor seed contains ricin, a toxic protein. Heating during the oil extraction process denatures and deactivates the protein. However, harvesting castor beans may not be without risk.\(^{[48]}\) Allergenic compounds found on the plant surface can cause permanent nerve damage, making the harvest of castor beans a human health risk. India, Brazil, and China are the major crop producers, and the workers suffer harmful side effects from working with these plants.\(^{[49]}\) These health issues, in addition to concerns about the toxic byproduct (ricin) from castor oil production, have encouraged the quest for alternative sources for hydroxy fatty acids.\(^{[50]}^{[51]}\) Alternatively, some researchers are trying to genetically modify the castor plant to prevent the synthesis of ricin.\(^{[52]}\)

While castor oil is sometimes used to induce full-term pregnancies (scientific evidence of its effectiveness is lacking),\(^{[53]}\) consuming castor oil to treat constipation is not considered safe in pregnancies that are not at full term yet, since it may cause contractions of the womb.\(^{[54]}\)

**Buying**

[http://castoroil.uk.com/](http://castoroil.uk.com/)
[http://www.amazon.com/Organic-Castor-Oil-Eyelashes-Treatment/dp/B00OVG34ZC](http://www.amazon.com/Organic-Castor-Oil-Eyelashes-Treatment/dp/B00OVG34ZC)
References
