Even though the Christmas period is now behind us, it is well worth taking a look at the pomegranate in detail. This fruit is not only used for interior decoration or as an ingredient in Advent baking or dishes, evidently it also has health-promoting properties.

There is also the fact that it is often associated with human concepts of beauty – for example, like those described in the Bible (e.g. Song of songs 4.3, 13). Manufacturers of natural skin products also extol the virtues of pomegranate as an “anti-ageing” substance. You only need to take a look at the relevant shelf.
in a drugstore to see how popular pomegranate products are.

**Background**

The pomegranate is the apple-sized, yellowy-brown to dark-red fruit of the pomegranate tree, which can grow 5 – 8m in height. The skin is approximately 5mm thick and surrounds jelly-like flesh, in which the c. 5mm seeds are embedded [1]. The fruit juice from pomegranates is used in drinks and as a dietary supplement.

Several studies have shown that pomegranate exhibits antioxidative and antiatherosclerotic (“prevention against vascular calcification”) effects. These properties are due to so-called polyphenols such as tannins, flavonoids and anthocyanins [2, 3, 4].

**Pomegranate in disease prevention and therapy**

A positive health benefit has been recorded in patients with carotid artery stenosis (4), high blood pressure [5], high cholesterol [6], light to moderate erectile dysfunction [7] and in patients with coronary heart disease [8].

Pomegranate has no effect in patients with chronic obstructive pulmonary disease [9] or post-menopausal women with hot flushes [10].

**Pomegranate in cancer prevention**
In the specialist area of complementary medicine in oncology, pomegranate virtually always features in adjunctive treatment offered for men with prostate cancer. This is because it has been shown that pomegranate juice suppresses the growth of prostate tumours [11] and lowers serum PSA levels [12]. The latter has also been observed in a more recent study using a mixture of green tea, pomegranate, broccoli and curcumin [13].

It is likely that women with breast cancer could also benefit from pomegranate due to the suppression of aromatase activity, endogenous oestrogen production and direct breast cancer cell division [14, 15]. These findings are only based on lab tests in the first instance, which means they cannot yet be applied to humans.

In animal tests, pomegranate extract reduces the side effect of liver damage caused by Cisplatin, a chemotherapy medication, which is used for ovarian cancer, for example [16].

**Our recommendations and hints when using pomegranate juice for cancer**

- It is worth finding out about the benefits of pomegranates – at the latest if you are diagnosed with prostate cancer.
- For this and other types of cancers it is also recommended to seek advice from a qualified complementary medicine practitioner.
- A discussion held in this connection should involve an explanation of which form (juice, extract/elixir) and which dose of pomegranate is suitable – or, as the case may be, unsuitable. Potential interactions with medications also need to be ruled out. Pomegranate juice can, for example, increase the risk of a dangerous decomposition of skeletal muscle (rhabdomyolysis) when consumed at the same time as undergoing statin therapy [17] and can interact with warfarin [18].

*Before taking a pomegranate preparation we recommend seeking professional advice and subsequently having a review at least once a year with a specialist practitioner to clarify whether continued consumption is still appropriate in accordance with medical criteria. Munich Tumour Centre offers*
such advice free of charge.


