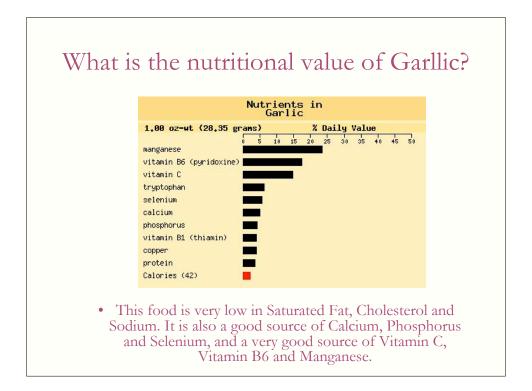


Botay (cont.):

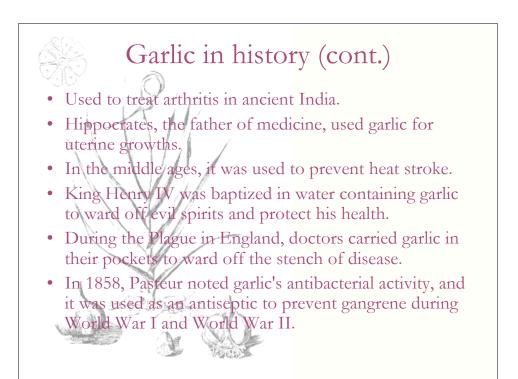
- The leaves of the garlic plant are pointed which is probably where it derived its name: "gaar" being an old gothic word for "spear" gives us "spear leek".
- The teardrop-shaped garlic bulbs range in size; however, they usually average around two inches in height and two inches in width at their widest point.

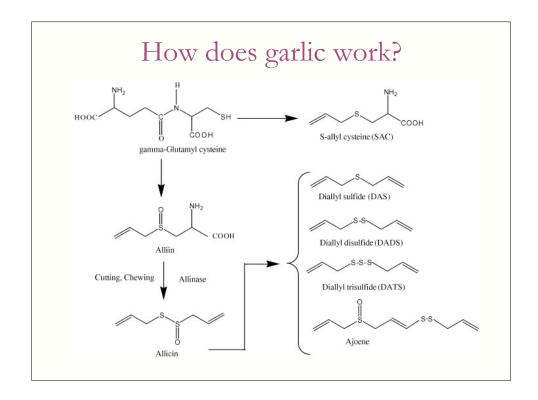


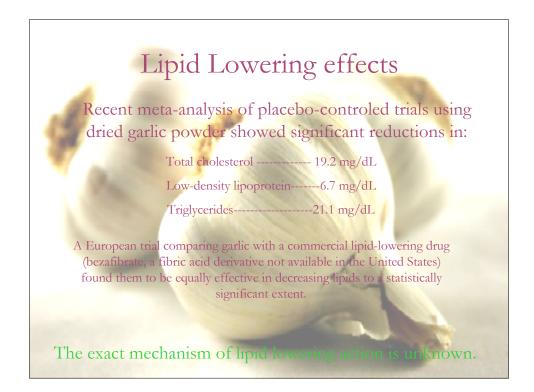


History of garlic in medicine:

- The Egyptians used garlic for the working class to increase strength while building the pyramids. The *Codex* listed many uses for garlic ranging from abnormal growth to insect infestations.
- The Talmud, a Jewish religious text from the 2nd century AD, recommended the use of garlic to promote relations and procreation!
- In ancient China, it was used to treat depression and improve male potency.
- Garlic was given to athletes in the early Olympics; it was the original "performance enhancing" agent.







Garlic's effect on the cardiovascular system:

- The antihypertensive effects of garlic have been studied but remain controversial, it is thought involve Nitric Oxide, a potent vasodilator.
- One observational study showed that regular garlic powder intake weakened age- and pressure-related increases in aortic stiffness.
- Potentially reduce atherosclerotic plaque formation



Antineoplastic effects:

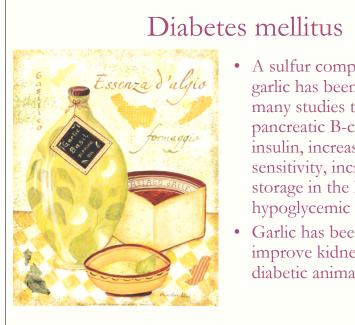


- Epidemiologic evidence has shown a decreased risk of stomach, colon, and prostate cancer with the high consumption of garlic and other allium vegetables (onions, leeks, shallots, chives) possibly due to allyl mercaptan's histone deacetylase inhibition or organosulfur compounds found within the vegetable
- Thought to be due to stimulation of both humoral and cellular immunity and also increased selenium absorption which is shown to protect against tumorigenesis

Garlic modulates carcinogenic metabolism, inhibits cell cycle progression, and induces apoptosis.

Antimicrobial actions:

- Small studies have shown that garlic exerts antimicrobial activity against gram-positive and gramnegative bacteria, viruses, fungi, and parasites.
- Garlic Oil is widely used in "green" food products as a natural preservative to ward off the overgrowth of veast.
- Intense heat and exposure to ultraviolet light decreased the bactericidal effects, so it is recommended to use fresh garlic to attain full antimicrobial benefit.



A sulfur compound found in garlic has been shown in many studies to stimulate pancreatic B-cell release of insulin, increase insulin sensitivity, increase glycogen storage in the liver, and have a hypoglycemic effect.

Garlic has been shown to improve kidney function in diabetic animals.

Dosages:

- 4 g (one to two cloves) of raw garlic per day
- one 300-mg dried garlic powder tablet two to three times per day
- Nature Made

 Odor Control

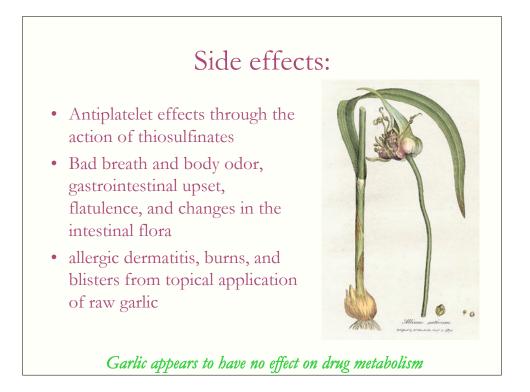
 Garlic

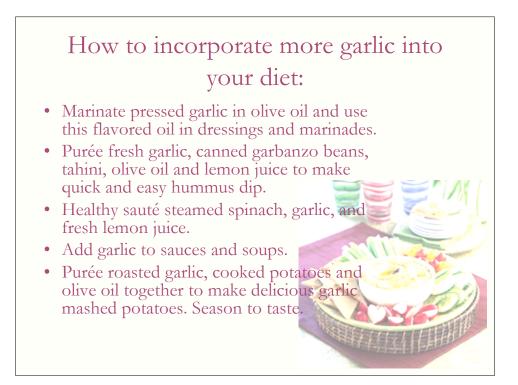
 SUPPLEMENT

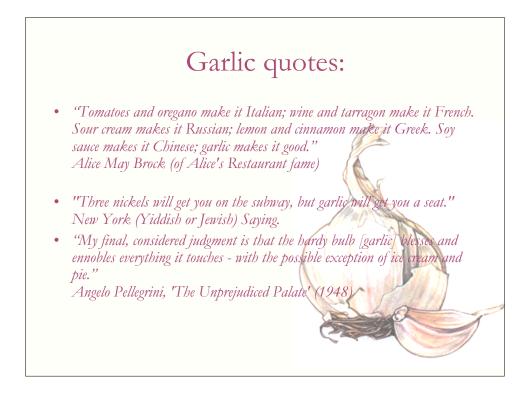
 1280 mg

 Garlic Equaded
- 7.2 g of aged garlic extract per day

Using garlic in food that requires heating, microwaving, or drying the cloves can substantially reduce the allicin and alliin thus decreasing its healthy effects on the body.







Final Thoughts

- A diet rich in allium vegetables seems to be a good choice with low-risk antineoplastic potential, and good taste as a beneficial side effect.
- Large, long-term, fully blinded, and well-controlled studies using a standardized preparation of garlic with known active components are necessary. They will allow reliable evaluation of garlic's effect on cardiovascular risk and, more important, on the end points of heart attack and stroke.

