

Can dark chocolate reduce hypertension? Alla Ahmed Altera 2nd medical student Libyan International Medical University





The Hypertension Burden

Hypertension or high blood pressure, is a global public health issue, affects 67 million US adults, and another 85 million have prehypertension, and its accounts for approximately 17 million death a year (1).



Another Benefits





antidepressants

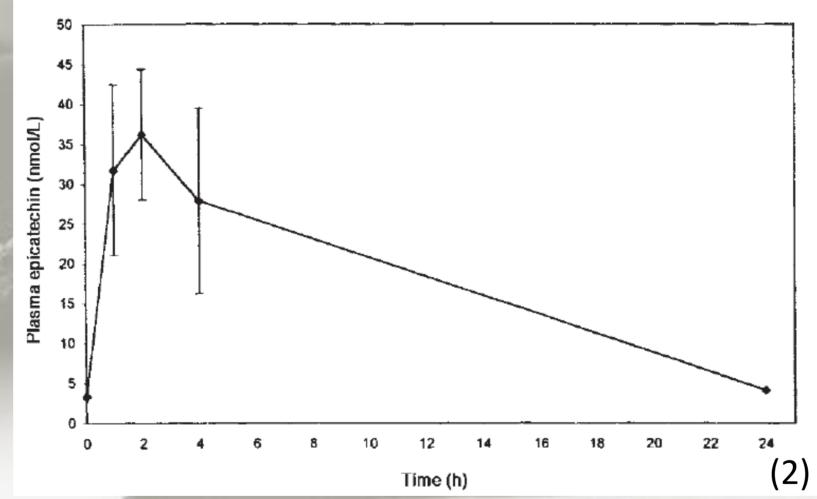
protection from disease (3)

How does effect?

A small study was performed to know the bioavailability of flavonoids that is present .in dark chocolate

After that a long term study was performed on a group of healthy, 2 period, crossover design was used (2).

Short-term study result :



Conclusions

More research should be done to confirm that dark chocolate is actually a healthy food, but so far from the available researches, dark chocolate reduces hypertension and it could be used as medicine in people susceptible to getting hypertension .

Result

In short-term study the result indicate a very slow clearance of the bromine from the plasma .compartment

And in a long -term study the result indicate all subjects maintained their weight during the study, serum total antioxidant capacity was 4.2% higher when subjects consumed the CP-DC diet than when they consumed the AAD (2).

Long-term study result:

Effect of dietary treatment on serum lipids and lipoproteins¹

	AAD $(n = 23)$	CP/DC diet $(n = 23)$
	mmol/L	
Total cholesterol (mmol/L)	5.29 ± 0.2	5.53 ± 0.2
Triacylglycerol (mmol/L)	1.18 ± 0.1	1.19 ± 0.2
LDL (mmol/L)	3.47 ± 0.1	3.63 ± 0.2
HDL (mmol/L)	1.28 ± 0.1	1.33 ± 0.1^{2}
VLDL (mmol/L)	0.53 ± 0.1	0.54 ± 0.1
TC:HDL cholesterol	4.33 ± 0.3	4.39 ± 0.3
LDL:HDL cholesterol	2.85 ± 0.2	2.89 ± 0.2

References

1-www.who.int/cardiovascular-diseases.
2-wan. Ying, et al. "Effect of cocoa powde

2-wan, Ying, et al. "Effect of cocoa powder and dark chocolate on LDL oxidative susceptibility and prostaglandin concentration in human -." The American journal of clinical nutrition 74.5(2001):596-602.

3-https://draxe.com/benefits-of-dark-chocolate .