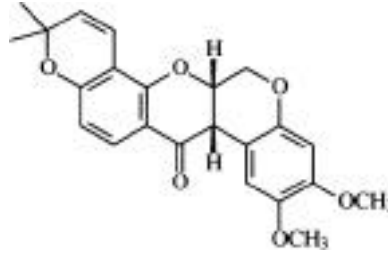


Plant Extract Helps Prevent Lung Cancer

Allyson Tukey

- Name: Deguelin(pronounced deg-way-lin)
- This extract is found in various plants in South America and Africa and was sometimes used as an insecticide.
- This extract may kill cells found to be cancerous in the lungs and help prevent healthy cells in the lungs from becoming cancerous.
- Experiment was done on ordinary lab mice and held at the University of Texas MD Anderson Cancer Center by Dr. Ho-Young Lee and colleagues.
- The procedure included three separate groups of ordinary mice.
- All 3 groups of mice were given cancer-causing chemicals to produce lung tumors
- The first group of mice were then given Deguelin (the extract) at the same time they were given the cancer-causing chemicals.
- The second group of mice were given Deguelin after they were treated with the cancer-causing chemicals.
- The third didn't get any Deguelin at all, just the cancer-causing chemicals.
- After 20 weeks of treatment the mice were all sacrificed and studied.
- All 3 groups acquired tumors in their lungs.
- Giving the Deguelin at the same time as the cancer-causing chemicals led to a clear decrease in the number of tumors.
- Giving the Deguelin after the chemicals also reduced the number of tumors, but not to the extent case 1 did.

- Then obviously group 3 was given no Deguelin and had no change in number of tumors.



- Deguelin slowed the growth of infected cells and killed cells the were at the risk of becoming infecting, while leaving healthy cells alone.
- Some suggest the extract attacks a substance called Akt, which is found in precancerous cells.
- Experiment has only been in the lab, not on humans so nothing promises smokers a cancer free outlook.
- Even with new extract smoking will never be a safe habit, this just shows there is promise of a healthy solution.
- Give Deguelin to other animals that are at risk of lung tumors and see if it does in deed prevent the cancer from forming.
- Give the extract to other animals that already have tumors to demonstrate if the compound can treat lung cancer.
- <http://www.upmccancercenters.com/news/reuters/>
- <http://www.medicalnewstoday.com/>
- <http://news.softpedia.com/news/Deguelin-might-prevent-lung-cancer-13270.shtml>
- <http://www.news-medical.net>
- <http://www.int.iol.co.za/>
- <http://news.uns.purdue.edu/htm13month/2005/>