



Your Health

From Bark to Daffodils: The Next Level©

by Jack Grierson

Vocabulary & pronunciation study by Catherine Balter Kendall ©

Words are explained alongside the text

Stressed syllables are underlined and in bold*

Welcome back to Your Health, provided by themedical frontier.com: Medical news, simplified.

Today's medications are filled with extremely hard to pronounce names like Rituximab or Methylprednisolone. But how did we manage to get to this stage where we develop highly advanced medications on a large scale? In the past, you would eat some chalk or rub Aloe Vera on your skin – how did we get to where we are today?

Of course, medicine began by using nature and the materials we had available around us. Over the years we have found ways to increase the effect of these materials by increasing their potency. Potency in biological terms is a measurement used to explain how effective a drug can be in the body. A nice way of explaining what drug potency is, is by using two different drugs as an example. A very potent drug only needs a very small concentration in the body to cause the effect. A **poorly** potent drug has to have very high concentrations to get the effect you need in the body. Many drug development companies have big issues with potency as you can only put so much into a pill if the drug isn't very potent. Of course you can always have the problem of the drug being too potent, which can cause toxic levels in the blood, and the pharmaceutical company has to work out how to put such a small amount into the pill (which can be hard when you're making a pill formulation).

So what are some examples of drugs that began <u>naturally</u> and have since been de<u>vel</u>oped into <u>highly</u> potent, effective drugs?

One of the most common drugs you have more than likely

bark (n.) the exterior part (skin) of a tree trunk

daffodil (n.) a yellow spring flower

to be filled with (exp.) to be full of

to manage to do sth (vb.) to succeed in doing sth.

to get to (phrasal vb.) to arrive at

chalk (n.) soft white rock, pieces used for writing on blackboard

to rub (vb.) to spread over, put on

available (adj.) on hand, easily obtained

potency (n.) strength

poorly (adv.) weakly, not strongly

to get (vb.) to obtain

issue (n.) problem, difficulty

so much (exp.) a limited quantity

to work out (phrasal vb.) to calculate

highly (adv.) very

more than likely (exp.) very probably

heard of is Aspirin. It's very good at relieving headaches, reducing fever or bringing down inflammation. It may shock you to find out that Aspirin originally started out as willow leaves and tree bark. Today we know how to synthesize it artificially and it is one of the most widely used drugs in the world.

As we discussed last week, Penicillin is an extremely important antibiotic used to kill harmful bacteria. Alexander Fleming accidentally discovered this when it appeared as a fungus. Since then, we have been able to use what we have learned from Penicillin to create other antibiotics that can kill bacteria like it in the lab.

<u>Finally</u>, who would have thought that the daffodils growing in your garden could be used to treat mental dis<u>or</u>ders like Alzheimer's disease? Or that the highly ad<u>dic</u>tive medicines used for pain, like Morphine, came from the poppy flower seed? Did you know that <u>garlic</u> is just as good at cleaning your teeth as toothpaste is but we don't use it due to the smell?

Medicine and nature go hand in hand and one could not live without the other.

This week's advice: Try to appreciate the beauty in both nature and medicine.

Thanks again for listening to Your Health on EnglishWaves, provided by The Medical Frontier: Medical news, simplified.

to hear of (phrasal vb.) to be familiar with

to relieve (vb.) to take away pain

headache (n.) pain in the head

to bring down (phrasal vb.) to reduce

to find out (phrasal vb.) to discover

to start out (phrasal vb.) to begin as sth.

willow (n.) a tree with long narrow branches and leaves, which grows near water

widely (adv.) extensively

harmful (adj.) dangerous,
damaging

garlic (n.) small white bulb of the onion family used in cooking

The following 3 syllable words have their stress on the middle syllable: measurement, potency, companies, nat(u)rally, synthesize, finally,

The following 3 syllable words have their stress on the middle syllable: ex<u>trem</u>ely, de<u>vel</u>op, in<u>crea</u>sing, ef<u>fec</u>tive, ex<u>plaining</u>, e<u>xam</u>ples, de<u>vel</u>oped, im<u>por</u>tant, dis<u>covered</u>, dis<u>orders</u>, ad<u>dic</u>tive

And don't forget that words ending in "tion" always have their main stress on the penultimate syllable: pronunciation, medications, concentration, formulation, inflammation