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microBYTES™

A Hardy Diagnostics eNewsletter

 **HARDY**
DIAGNOSTICS
a culture of service...

January, 2018

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Micro Musings...



"To think that we completely ignored his symptoms,
and just nicknamed him 'sneezy'."

Hardy...your one stop shop for...

Anaerobic Microbiology

Do You Perform Growth Promotion Studies?

EZ Accu Shot

Anaerobic Microbiology



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quality assurance. The EZ Accu Shot offers quantitative
microorganism testing for growth promotion studies.

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* * * * *

*For the detection
of Group B Strep...*

Carrot Broth One Step

Are bananas,
as we know them,
becoming extinct?





- Improved...No tile addition needed!
- Detects hemolytic Group B Strep from the initial broth culture
- Provides results in as little as sixteen hours
- Found to be 100% sensitive and up to 100% specific in a recent study

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* * *



Bananas are the world's most exported fruit and have become a dietary staple for many people and cultures. Of the 114 million tons produced annually, 85% are produced for consumption in the United States [1]. Unfortunately, the most popular fruit in the world may be under threat by a lethal fungal disease. Fusarium wilt of banana, or Panama disease, affects the seedless Cavendish banana, which is by far the most common banana variety. In fact, 95% of the commercially sold bananas are of the Cavendish variety. Scientists around the world are working tirelessly to find a replacement or to find a solution to this growing threat of fungal disease.

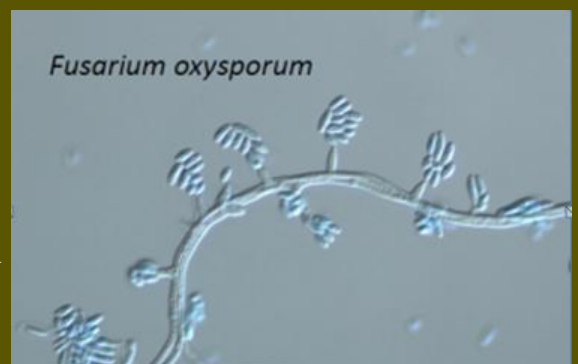


Fusarium wilt of banana is caused by the soil-borne fungus

Fusarium oxysporum f. sp. cubense. It enters the plant through the roots and colonizes the xylem vessels. This blocks the flow of water and nutrients, even though the fruit is not directly affected by the fungus. Progression of this disease in the plant

ultimately leads to plant death.

This persistent fungus, once established, can remain in soil for an indefinite period of time and cannot be managed with chemical



pesticides [2]. The severity of this disease for the Cavendish banana lies in the nature of how bananas are



No Mess!

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**No Mess!
No Stress!**



Hardy's GramPRO is the world's most consistent, repeatable, and reliable way to perform a Gram stain. Find out why...

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[Learn more](#) about the GramPRO 1.

[Please](#) contact me to discuss automated slide stainers.

Fill test validation...



Hardy offers a complete line of products to test aseptic technique. Our products comply with the new USP <797> regulations.

Cavendish bananas are in the nature of new bananas are reproduced. Bananas do not contain seeds, therefore, most bananas consumed around the world are actually clones that originate from only two different varieties. Both of these varieties show little resistance to the disease.



Fusarium wilt was first recorded in 1874 in Australia, although it is likely that the disease originated in southeast Asia. In 1890, the disease was then reported in Panama. From there, it spread to Costa Rica, Suriname, Cuba, Trinidad, Jamaica, Honduras, and Guatemala. Now the disease has been reported in almost all banana-producing countries [2]. The banana industry experienced a similar disaster when Fusarium devastated the Gros Michel variety of bananas after the

turn of the 20th century. The destruction was abated in the 1950s when the resistant Cavendish replaced the Gros Michel variety. Now, the Cavendish variety is subject to the same destruction that its predecessor experienced.



See our complete catalog
for HardyVAL products.

Request a consultation with
our media fill test expert.

* * *

Phraseology...

"Fit to be Tied"



"Fit to be tied"
describes someone who
is so angry and enraged
that they must be tied
down to restrain him.

First appearing in the
early 1800s, "fit to
be tied" alludes to the
practice of tying up
uncontrollable mental
patients. This practice
of tying up mental
patients with rope or
cloth gave way to the
straitjacket, which was

invented in France around 1790. The straitjacket
covers each arm and hand, which are then
wrapped around and fastened in the back. It is
so difficult to escape from a straitjacket that the
act is often depicted in magic shows,
made famous by Harry Houdini pictured above.

Though the earliest known use of the term "fit to
be tied" comes from the United Kingdom, the
phrase is a well-known idiom popular in the
United States, particularly the southern area.

* * * * *

What is Hardy all about?

[View a short video to find out...](#)



Work is underway to come up with a solution to this
global problem. In Honduras, scientists are
crossbreeding two varieties to develop a new breed that
is resistant to the disease. Biological control is being
used in China by rotating banana crops with Chinese
leek, whose soil microbial community suppresses the
pathogen [2]. There has also been extensive research
done on developing a transgenic Cavendish banana that
is resistant to Fusarium wilt [3]. At this time, scientists
believe genetically modifying the Cavendish banana is
the best solution for fighting this growing threat,
though this may present a problem to consumers and
markets that are cautious to introduce genetically
modified products such as Europe and Japan.

*By Alani Barajas
R&D Microbiologist
Hardy Diagnostics*

References

1. <https://www.nationalgeographic.com/environment/urban-expeditions/food/food-journeys-graphic/>
2. <http://www.promusa.org/Fusarium+wilt>
3. <https://www.nature.com/articles/s41467-017-01670-6>

* * *

Cannabis Testing



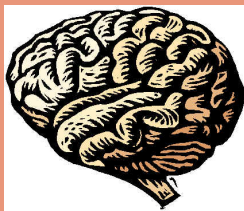
Hardy offers many products for the microbiological
testing of cannabis. [See the related products here...](#)

* * * * *



* * *

Brainteasers



Free cranial workouts
available [here...](#)

StrepPRO

Rapid ID of Strep Grouping
by Latex Agglutination



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Trio Bas Air Samplers



Two heads are better than one!

Now with Bluetooth capability!

Trio Bas from Orum International has a robust impact air sampler for every type of use. Single, double, or triple heads are available from Hardy Diagnostics.

- [Watch a short video](#) that will explain why the Trio Bas is the best choice for your clean room.
- [See the complete Trio Bas catalog.](#)
- [Please have a sales rep contact me](#) about air samplers.

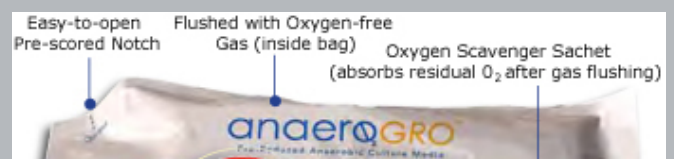
Testimonial from a Pharmaceutical Lab worker...

"The two heads of TRIO BAS DUO air sampler was one of the best investments during the last two years. The laboratory staff responsible of the bacteriological sampling is able to double the number of environmental microbial cycles per day. This means more efficiency and lower cost, together with the possibility to increase in the future the number of sampling in other areas of the premises."

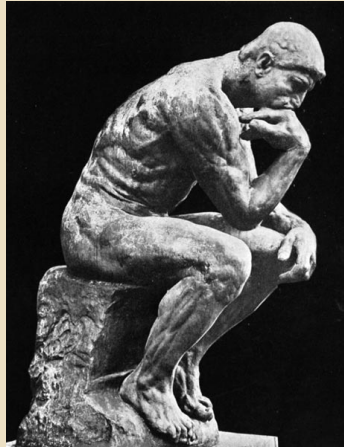
* * *

Increase your recovery rate for anaerobes!

AnaeroGRO



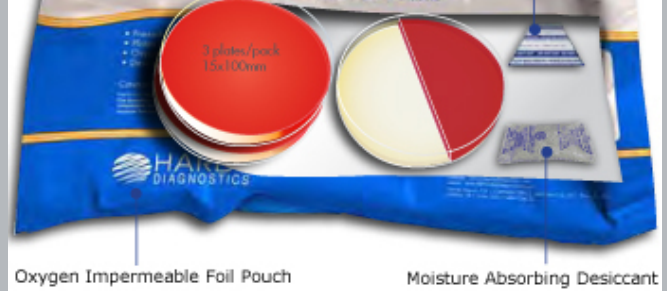
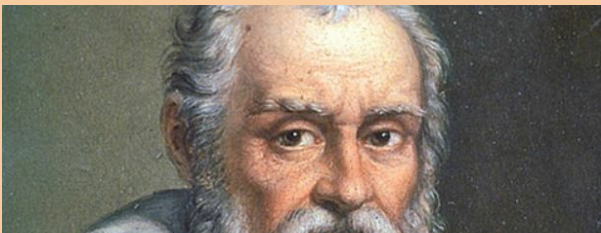
Think about it...



- * Why do we wait until a pig is dead to "cure" it?
- * Why do we wash bath towels? Aren't we clean when we use them?
- * Why do we put suits in a garment bag and put garments in a suitcase?
- * Do Roman paramedics refer to IV's as "4's"?
- * What do little birdies see when they get knocked unconscious?
- * Why doesn't Tarzan have a beard?
- * I went to a bookstore and asked the saleswoman, "Where's the self-help section?" She said if she told me, it would defeat the purpose.

* * *

Wisdom to Ponder...



Hardy's AnaeroGRO is packaged with an oxygen scavenger and flushed with nitrogen gas to ensure anaerobic conditions, leading to better recovery of anaerobic bacteria.

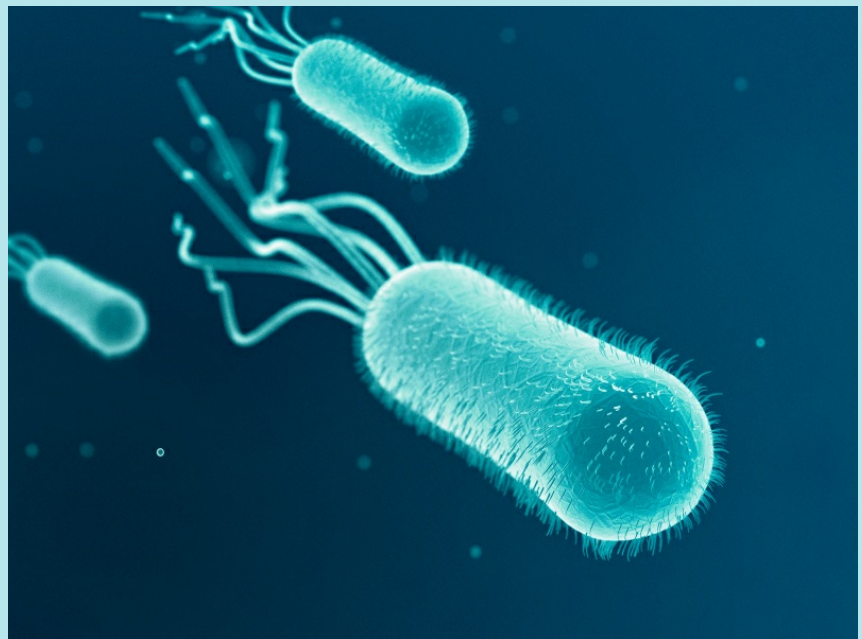
[See the short video.](#)

[Request a free sample.](#)

[Learn more](#) about the benefits of AnaeroGRO.

[View a catalog](#) of all our anaerobic microbiology supplies.

* * * * *



**Gram Negative Rods
are becoming
more and more resistant.**

Is there hope for



Galileo Galilei

1564 ~ 1642

An Italian physicist, astronomer, and instrument maker. He described sunspots, the surface of the moon, the Milky Way, and moons of Jupiter. As a physicist, he discovered the concept of kinematic relativity.

"I have never met a man so ignorant that I couldn't learn something from him."

"All truths are easy to understand once they are discovered; the point is to discover them."

"We cannot teach people anything; we can only help them discover it within themselves."

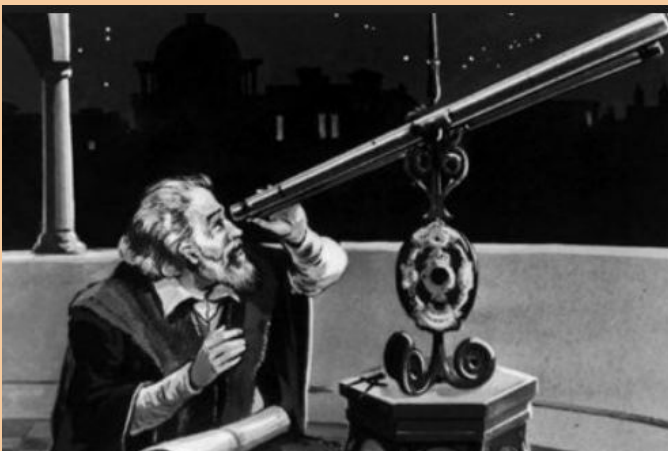
"Who would set a limit to the mind of man? Who would dare assert that we know all there is to be known?"

"I give infinite thanks to God, who has been pleased to make me the first observer of marvelous things."

"Wine is sunlight, held together by water."

"Passion is the genesis of genius."

"There are those who reason well, but they are greatly outnumbered by those who reason badly."



better treatments?

Find out...

* * * * *

Optical oddities...



Step back a ways from your computer
and "you are far away!"

*"Believe half of what you see
and none of what you hear."
~ Benjamin Franklin ~*

RIIBES

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to learn how easy it is
to order from Hardy on-line!

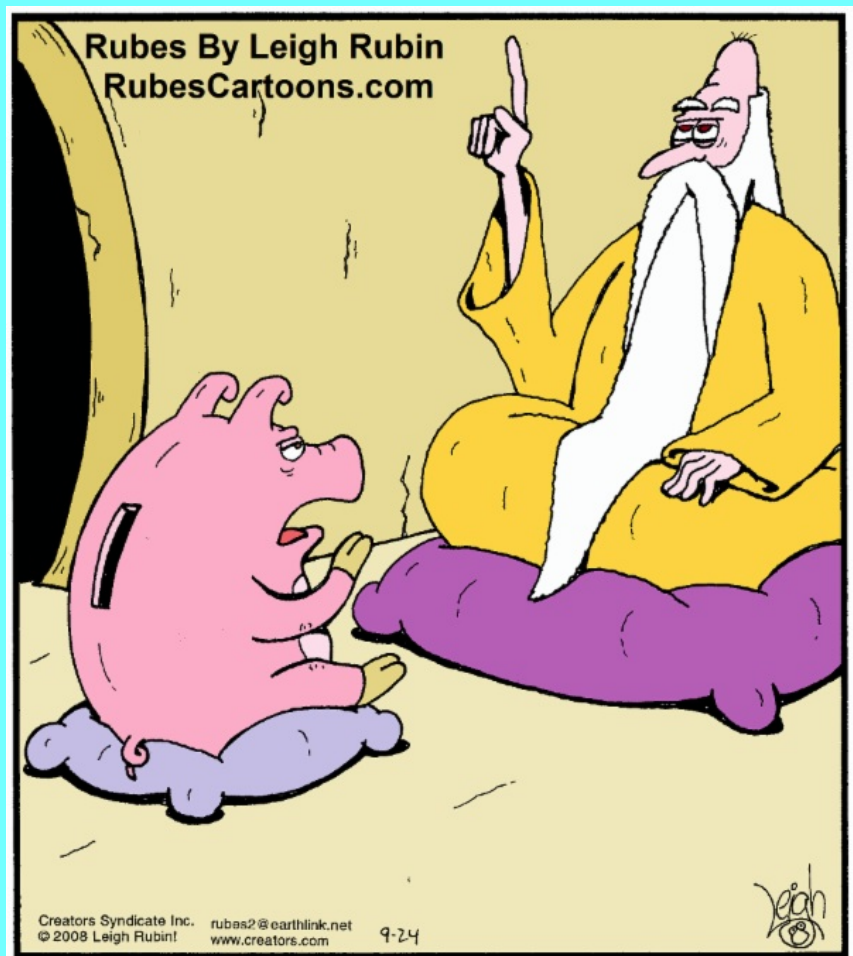
*Pick... Click...
And your order is on its way!*

Did you know?



Hardy Diagnostics...

RUBES



**"Enough with all the spiritual mumbo
jumbo, pal. ... What I'm seeking is *real*
inner change."**

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"Everyone wants to change the world."

- Manufactures over 2,700 microbiology products for you to choose from.
- Stocks over 13,000 laboratory products for your "one stop shop" experience.
- Is celebrating its 38th year of serving microbiologists.
- Manufactures from two ISO certified factories; one in California and one in Ohio.
- Maintains nine distribution centers in the U.S. for faster turn-around-time to your lab.
- Is ISO 13485 certified for the manufacture of medical devices to give you confidence in our products.
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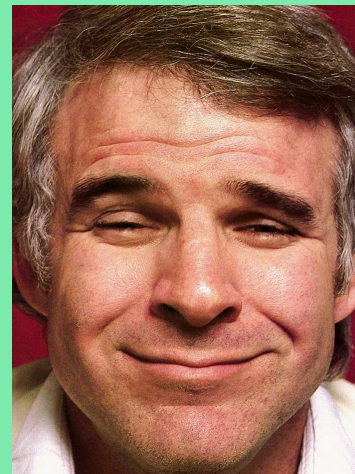


*"No one wants to change the world,
nobody wants to change themselves."*

Leo Tolstoy



*"I gave my cat a bath
the other day . . .*



*He really liked it and it was a great
experience, although the fur tended to
stick to my tongue a bit."*

Steve Martin



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of MicroBytes?

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"As Hardy Diagnostics enters its 38th year of serving microbiologists in the laboratory, I would like to thank each of our customers for their support and loyalty. It truly has been a pleasure to serve you!

If there is any way we can improve or expand upon our service, would you please let me know?"

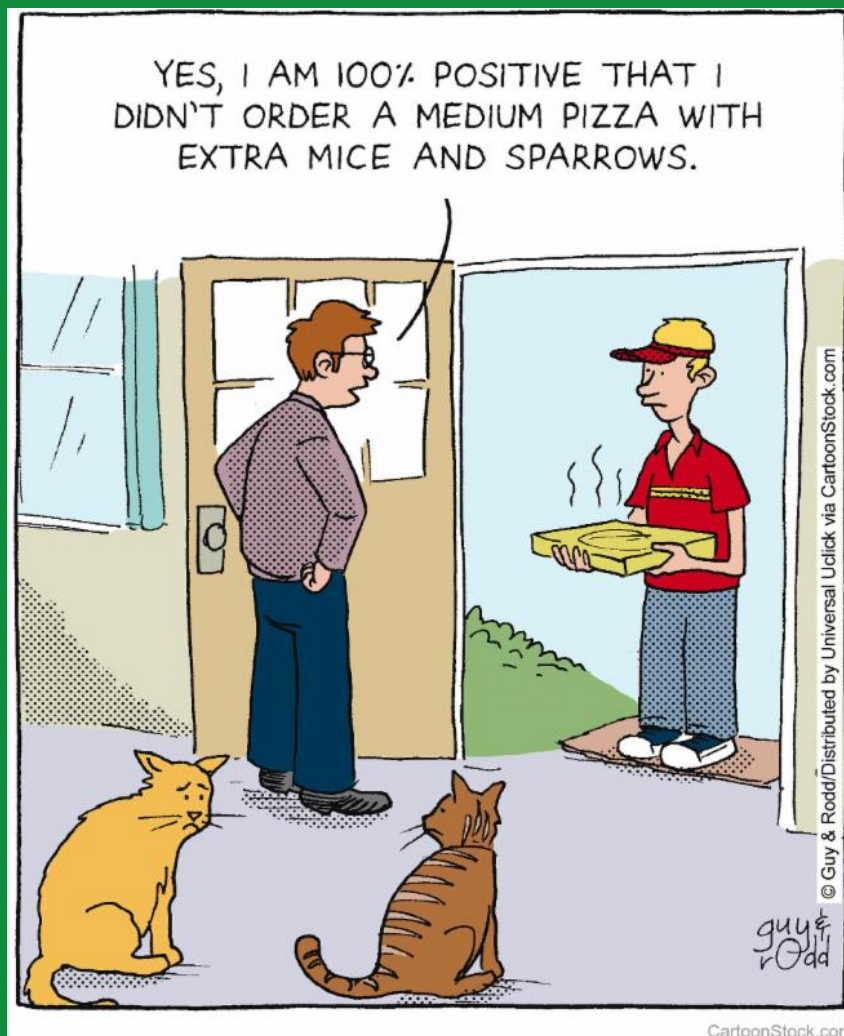
Jay Hardy, CLS, SM(NRCM)
President
HARDY DIAGNOSTICS

[Send Jay a message...](#)



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Available at
amazon

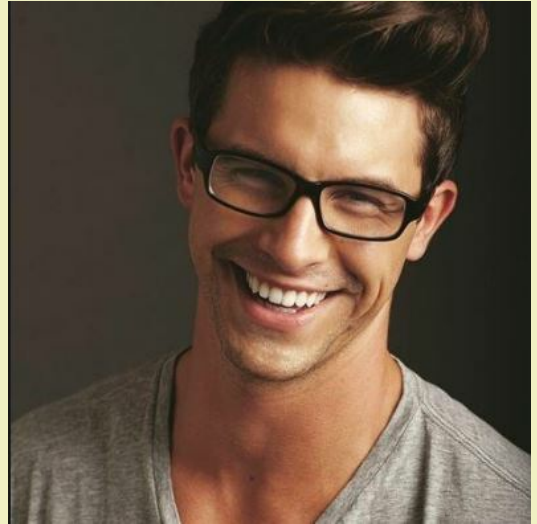


Warning:
**PUN ZONE
AHEAD**

Did you know that of the 2,700 products that Hardy makes, 700 of them are now available on Amazon.



[Discover some of them here...](#)



* Mathematicians wear glasses, because they improve division.

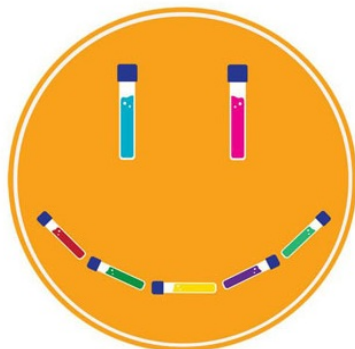
* Her bootlegging was illegal, but I loved her still.

* A tardy cannibal gets the cold shoulder.

* Never play cards in the Serengeti. There are too many cheetahs.

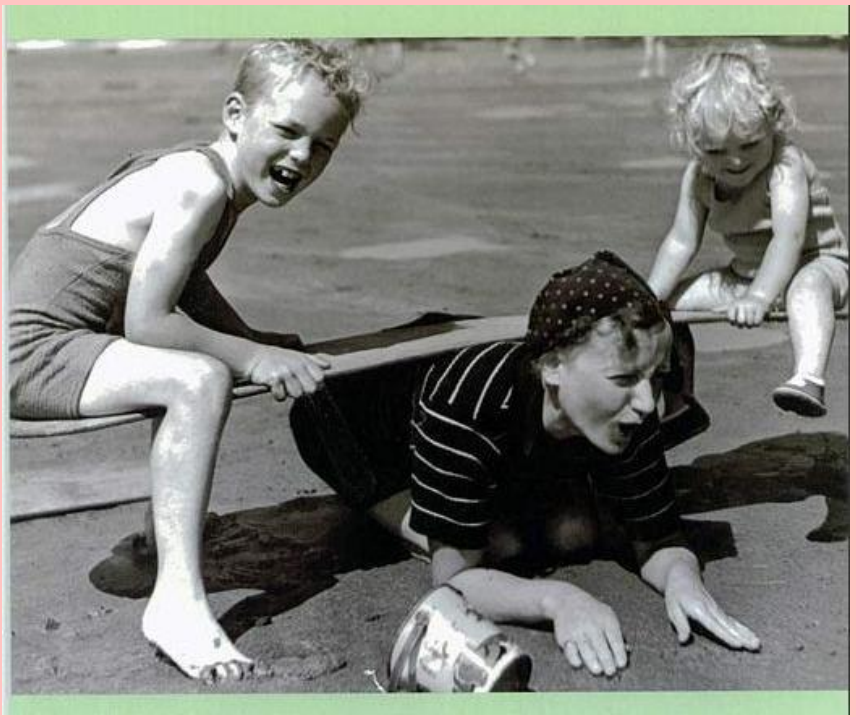
* Dishonest golfers don't play the fairway.

#



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DIAGNOSTICS



The one thing kids
wear out faster than shoes,
is parents.



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