



[MUSIC PLAYING]

SPEAKER: How does a COVID-19

mRNA vaccine work?

COVID vaccines are now

on hand.

One of the most COVID-19 vaccines

are mRNA vaccines, but what does

this point out?

mRNA vaccines are

a great deal of from former

vaccines.

mRNA vaccines construct no longer expose you

to any genuine virus in its save,

they're made with messenger

Ribonucleic Acid or mRNA.

This is a form of molecule that

presents directions to the cell

for produce a great deal of kinds

of proteins.



mRNA molecules are
a natural a part of our cells
and the design in which our bodies work.

Researchers were working
with mRNA vaccines
for a protracted time.

They're made extra without considerations
and safely in a lab
than a vaccine that uses
a virulent disease.

Thanks to this they're going to also
be made sooner.

The COVID-19 mRNA vaccines
maintain passed many tests in labs
and in thousands of parents,
and meet strict requirements
from the FDA.

So how stop these vaccines work?

First, a COVID-19 mRNA vaccine
is injected accurate into a muscle
for your better arm.



Some muscle cells take the mRNA
directions in the vaccine
and produce a innocuous fragment
of a protein known as
a spike protein.

This protein is chanced on
on the outside of the SARS-CoV-2
virus that causes COVID-19.

The muscle cells then homicide
the directions for produce
the spike protein.

The mRNA never goes
into the nucleus of your cells
where your DNA is stored.

The newly made spike protein now
sits on the outside
of the muscle cells.

Your immune blueprint senses
the spike protein
as a foreign menace to homicide,
it begins making antibodies



to combat anything else

with that spike protein on it.

This would possibly maybe increasingly abet your physique's

immune blueprint acknowledge

and combat the genuine virus if it

ever reveals up.

It be indulge in recognizing someone

by the hat they save on.

Your physique is then

ready to situation COVID-19

and combat it off sooner than it grows

for your physique's cells.

Rapidly facts to keep in mind

about COVID-19 mRNA vaccines.

They support ranking your physique

ready to combat off the COVID-19

virus sooner than it makes you sick,

they construct no longer exhaust

any are living, dull, or outmoded virus,

they cannot come up with COVID-19,

they construct no longer maintain an ticket to your DNA.



Want to be taught extra,

wander to cdc.gov to search out extra

facts about mRNA vaccines.

That you just would possibly maybe also be taught extra about

how the vaccines were licensed

at fda.gov.

[SWOOSH]

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