



**PUTTING
THE BRAKES
ON MUSCLE
BREAKDOWN**

1
00:00:11,830 --> 00:00:09,990

[Music]

2
00:00:14,950 --> 00:00:11,840

we're testing the drug as well as the

3
00:00:16,310 --> 00:00:14,960

device sarcopenia or muscle wasting is a

4
00:00:17,510 --> 00:00:16,320

big burden on the healthcare system

5
00:00:18,390 --> 00:00:17,520

currently

6
00:00:20,390 --> 00:00:18,400

so

7
00:00:22,070 --> 00:00:20,400

the results from the study will provide

8
00:00:23,990 --> 00:00:22,080

us with valuable information on

9
00:00:34,790 --> 00:00:24,000

understanding the mechanism of action

10
00:00:38,869 --> 00:00:36,470

now the other unique aspect of it is the

11
00:00:40,950 --> 00:00:38,879

natural delivery system that is

12
00:00:43,110 --> 00:00:40,960

implanted in the mice these nano channel

13
00:00:44,470 --> 00:00:43,120

membranes are microfabricated with the

14

00:00:46,310 --> 00:00:44,480

same

15

00:00:49,029 --> 00:00:46,320

type of technology that you use for my

16

00:00:50,709 --> 00:00:49,039

computer chips because we have realized

17

00:00:51,910 --> 00:00:50,719

that if we take channels that they are

18

00:00:54,389 --> 00:00:51,920

that small

19

00:00:56,950 --> 00:00:54,399

and we use them as a rate limiting

20

00:00:58,869 --> 00:00:56,960

membrane we can achieve a very steady

21

00:01:01,270 --> 00:00:58,879

and controlled delivery of the drug

22

00:01:03,510 --> 00:01:01,280

without any sort of pumping mechanism on

23

00:01:05,910 --> 00:01:03,520

board of our implants so that makes a

24

00:01:09,260 --> 00:01:05,920

very small very effective implantable

25

00:01:20,630 --> 00:01:09,270

delivery system

26

00:01:23,590 --> 00:01:20,640

[Music]

27

00:01:25,670 --> 00:01:23,600

the big goal is that we're making

28

00:01:27,510 --> 00:01:25,680

humanity better and we're

29

00:01:29,990 --> 00:01:27,520

helping our generation and the next

30

00:01:31,749 --> 00:01:30,000

generations live longer and better so at

31

00:01:37,510 --> 00:01:31,759

the end of the day if we can accomplish