



**BREATHING
FOR THE SAKE OF
SCIENCE**

1

00:00:00,269 --> 00:00:04,740

THE INTERNATIONAL SPACE STATION IS A
NATIONAL ORBITING LABORATORY EVERY

2

00:00:04,740 --> 00:00:08,910

SINGLE DAY WE ARE ANSWERING BIG
QUESTIONS ABOUT EARTH AND ABOUT SPACE

3

00:00:08,910 --> 00:00:11,496

ABOUT WHERE WE CAME FROM
AND ABOUT WHERE WE'RE GOING

4

00:00:11,496 --> 00:00:12,540

ONE CATEGORY OF THOSE

5

00:00:12,540 --> 00:00:15,599

EXPERIMENTS ARE HUMAN RESEARCH
EXPERIMENTS ON OUR HUMAN BODY HOW WE

6

00:00:15,599 --> 00:00:16,581

REACTED MICROGRAVITY

7

00:00:16,581 --> 00:00:19,380

ONE OF THE RECENT
ONES THAT I'VE BEEN A PART OF IS CALLED

8

00:00:19,380 --> 00:00:24,320

AIRWAY MONITORING AND THIS IS LOOKING AT
AIRWAY INFLAMMATION UP IN SPACE

9

00:00:24,320 --> 00:00:28,640

SO WHEN WE'RE BREATHING THE AIR YOU KNOW
THE SMALL PARTICLES IN THE AIR THEY DON'T

10

00:00:28,680 --> 00:00:32,900

JUST FALL TO THE GROUND LIKE DUST ON THE
ON THE GROUND SO WE TEND TO INHALE MORE

11

00:00:32,910 --> 00:00:38,790

FINE PARTICLES THAN WE WOULD ON EARTH
AND SO WE'RE LOOKING AT THE OUR RESPONSE

12

00:00:38,790 --> 00:00:44,430

OUR BODY'S RESPONSE TO THAT BY MEASURING
NITRIC OXIDE EXHALATIONS AS AN INDICATOR

13

00:00:44,430 --> 00:00:48,030

FOR AIRWAY INFLAMMATION AND SO
UNDERSTANDING YOU KNOW HOW CLEAN IS OUR

14

00:00:48,030 --> 00:00:51,690

AIR NEED TO BE HOW DOES OUR BODY REACT
TO THE TO THE AIR WHEN WE TALK ABOUT

15

00:00:51,690 --> 00:00:55,800

GOING BACK TO THE MOON YOU KNOW A LOT OF
PEOPLE ARE AWARE THAT THE MOON DUST IS A

16

00:00:55,800 --> 00:01:00,239

VERY VERY FINE PARTICLE IT'S ALMOST LIKE
POWDERED SUGAR FINE PARTICLE AND IF

17

00:01:00,239 --> 00:01:03,960

THAT'S IN THE AIR AND WE'RE BREATHING
THAT FOR MONTHS ON END IF WE'RE IF

18

00:01:03,980 --> 00:01:08,180

WE'RE DOING YOU KNOW EXTENDED STAYS ON
THE LUNAR SURFACE YOU KNOW WE NEED TO