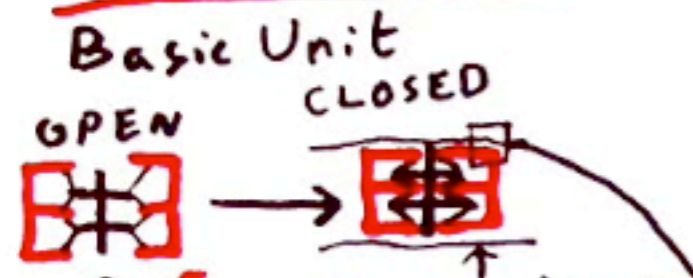




## Present<sup>o</sup> Of Motorcycles and Muscular Dystrophy

### Act I: Muscle



Myosin  
Grabs and pulls  
Millions per muscle  
Causes motion

- Surrounds the motor
- Pumps and filters
- Keeps good fluids in
- Like a seal in a motor

Membrane  
Dystrophin  
Actin

- Large, strong, flexible
- Shock absorber for membrane

### Act II: Dystrophin Gene

Most complex gene (computer program)  
in human DNA: 2.6 million "base pairs"  
Highly error prone ("mutations")

Bad or absent Dystrophin  
= Muscular Dystrophy

Bad or missing shock absorbers

I'm telling Mom you said that!  
I sucks!  
This is awesome!

#### Rough ride:

- Seals break down
- Lose oil and fluids
- Dust + Dirt in engine



Thanks for watching!  
See you at the Ride!!

### Act III: Muscular Dystrophy

- Membrane develops holes
- Muscle fluids leak out
- Inflammation sore, swollen
- Muscle protein breaks down
- Muscles get weak and scarred

THERE IS NO CURE... YET

### Ride For Doug:

- 1st Sunday every June
- International motorcycle ride

Ride!  
Volunteer!  
Donate!

