



Evolving Wave season
Bohemian Horizons users
Boundless Community brand

Chris De Guzman

Evolving Wave



The transition from winter to spring, everything around you is very much alive.

Bohemian Horizons

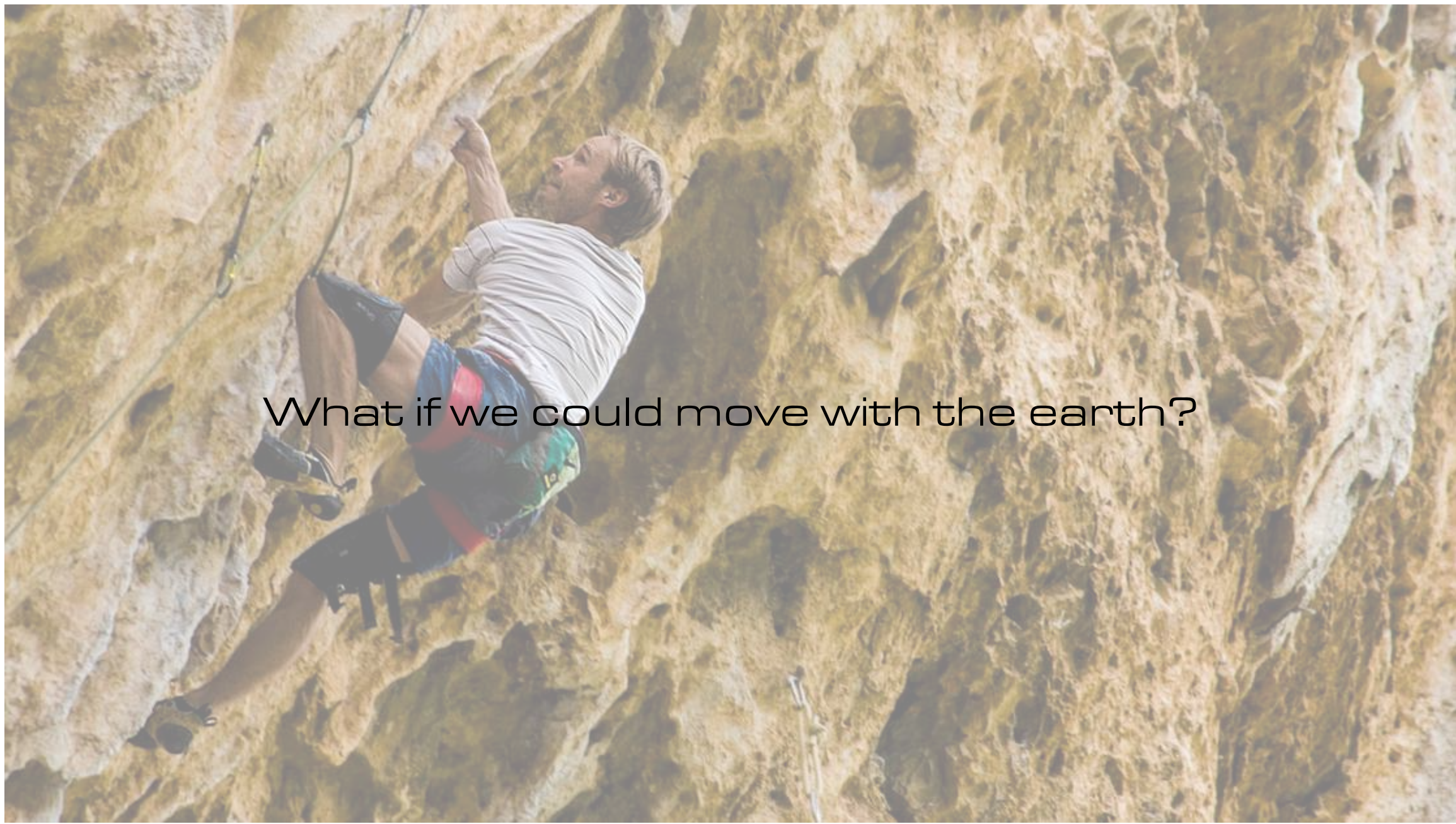


its the dawn of climbing season & north face bohemians, look beyond the horizons.

Boundless Community



in a boundless community, we learn together & we grow together as one.





How could we tune our circadian rhythm?

circadian rhythms can be interpreted as the balance between rest and exercise.

focusing on the aspect of exercise we aim for the north face boehmians to tune in with the harmony and flow of their own circadian rhythm as well as the circadian rhythm of their environment.

Climbing Genre

Belaying



guides & spots climber during the climb.
belayer is connected to harness to counter-balance if climber falls.

Equipment

				
chalk	belay device	harness	rope	carabiner

Climbing Genre

Top Rope Climbing



easiest level of difficulty, climber climbs up to an apex of roped path.

Sport Climbing



climbs a path with pre-installed bolts in mountain.

Equipment

				
chalk	footwear	harness	rope	carabiner

Climbing Genre

Bouldering



with no equipment climber seeks to strengthen skills climbing shorter but difficult paths guided by "spotters."

Free Solo



the most extreme level of rock climbing, professional climbers ascent more than 7,000+ feet in elevation

Equipment


chalk


footwear

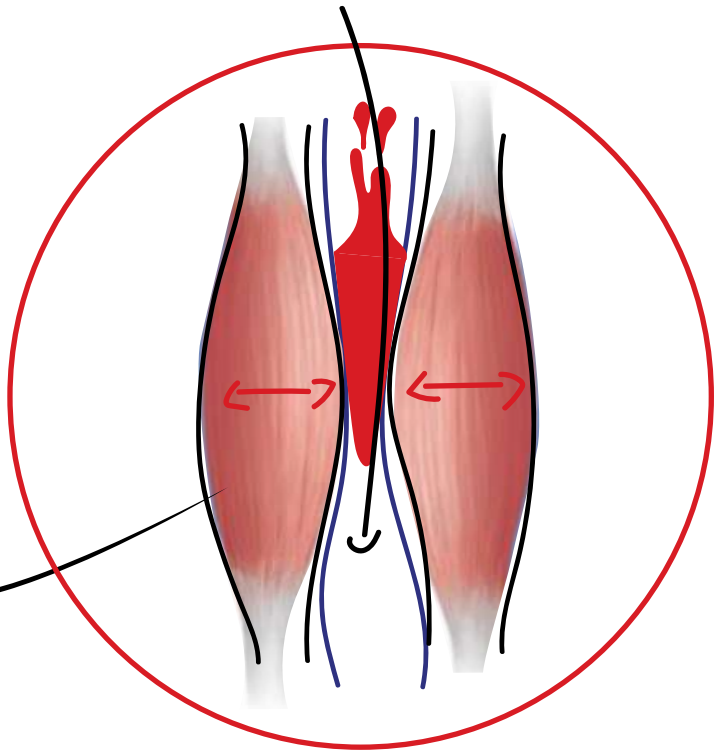
PROBLEM: Forearm Pain



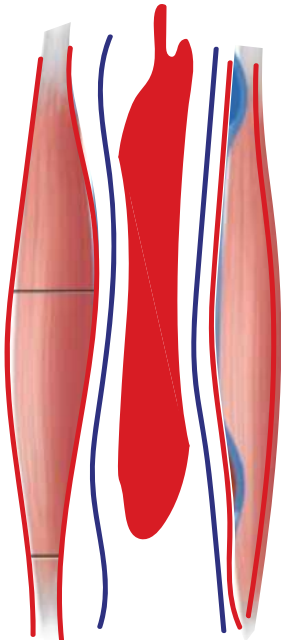
contracted [flexed] forearms during climb closes blood circulation & leads to lactic acid buildup.



contracted muscle



limited blood flow + oxygen

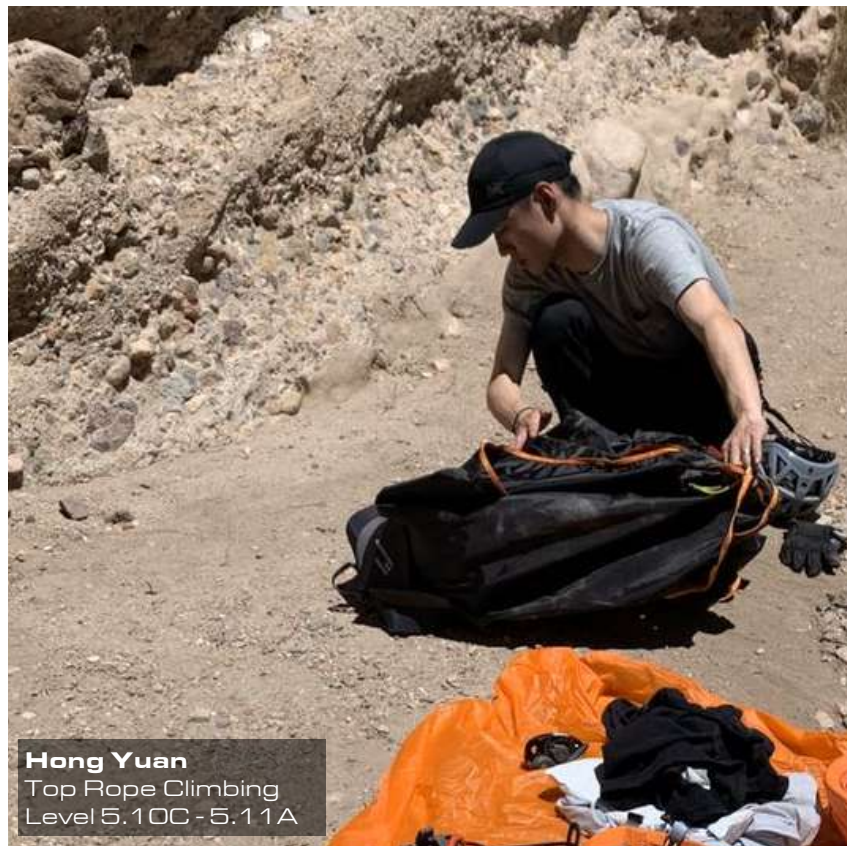


increase blood flow + oxygen

PROBLEM: Forearm Pain

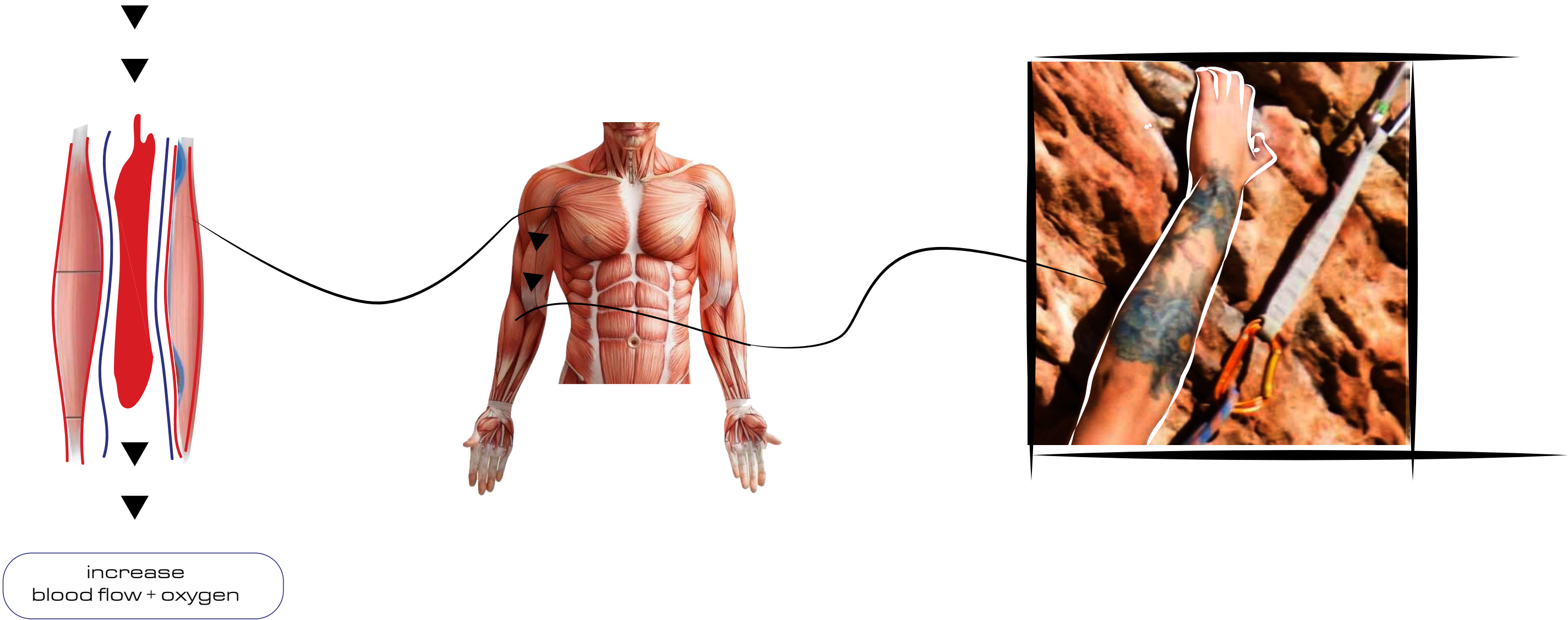


“The lactic acid buildup is very real... like to a painful level at times. In my arms mostly. I am constantly trying to shake out my arms in between climbs, and even on the wall.”



“You can feel it when it builds up, you can’t really grab rocks as efficient I usually stop when I feel it, because it affects performance & you are more likely to fall.”

SOLUTION: Compression



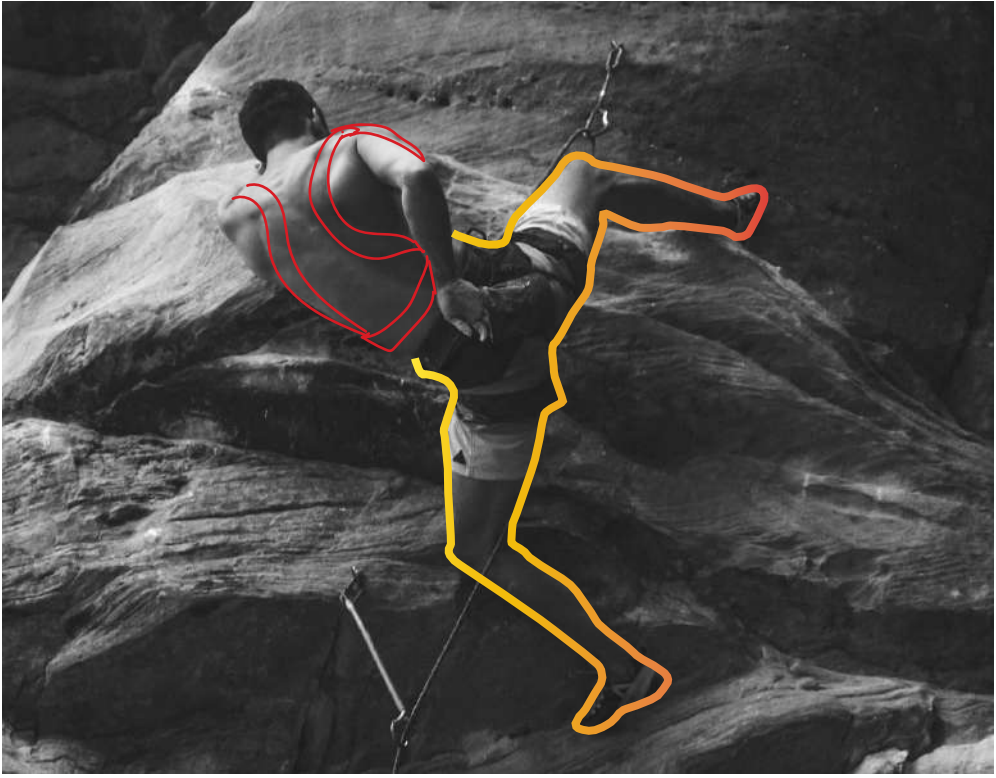
Focused compression wear targeting larger muscles in the relaxed-state to increase circulation to climbers forearms.

Climbing Genre



LEVEL 1

COMPRESSION DURING
REST



LEVEL 2

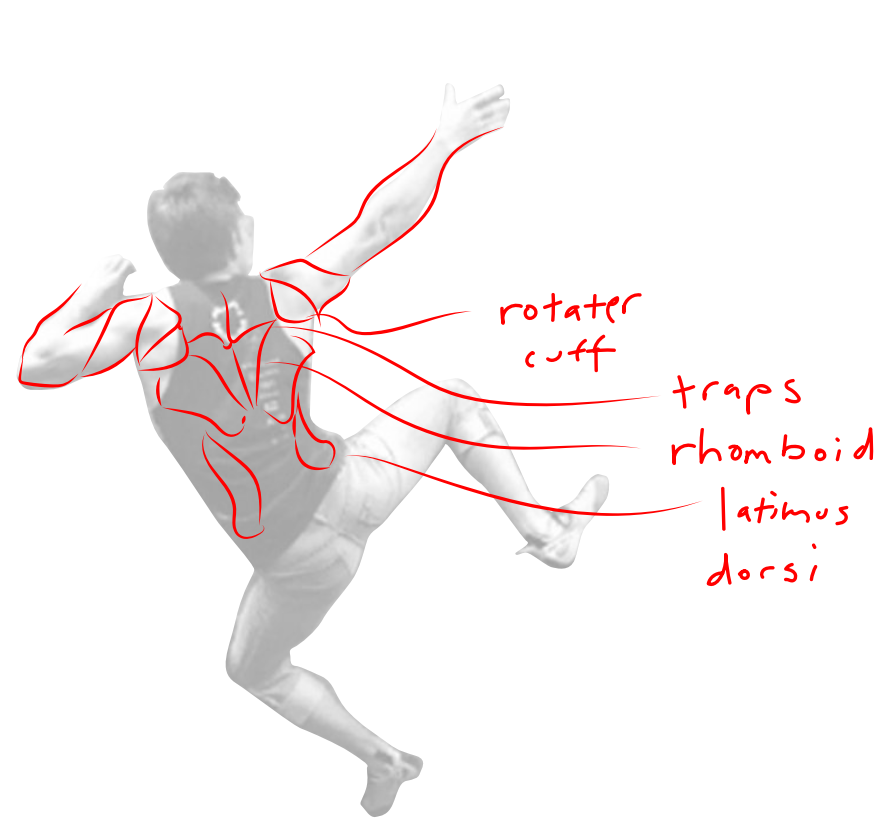
COMPRESSION DURING
LOWER BODY / CORE
MUSCLE USE



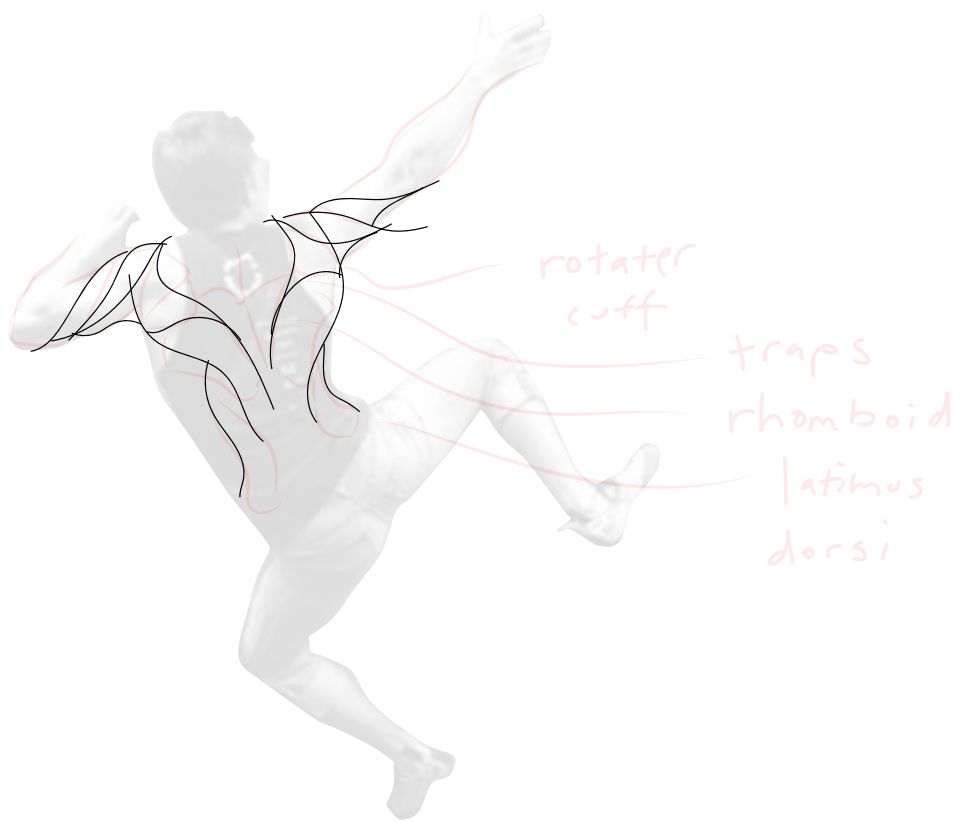
LEVEL 3

COMPRESSION DURING
FULL UPPER BODY
MUSCLE USE

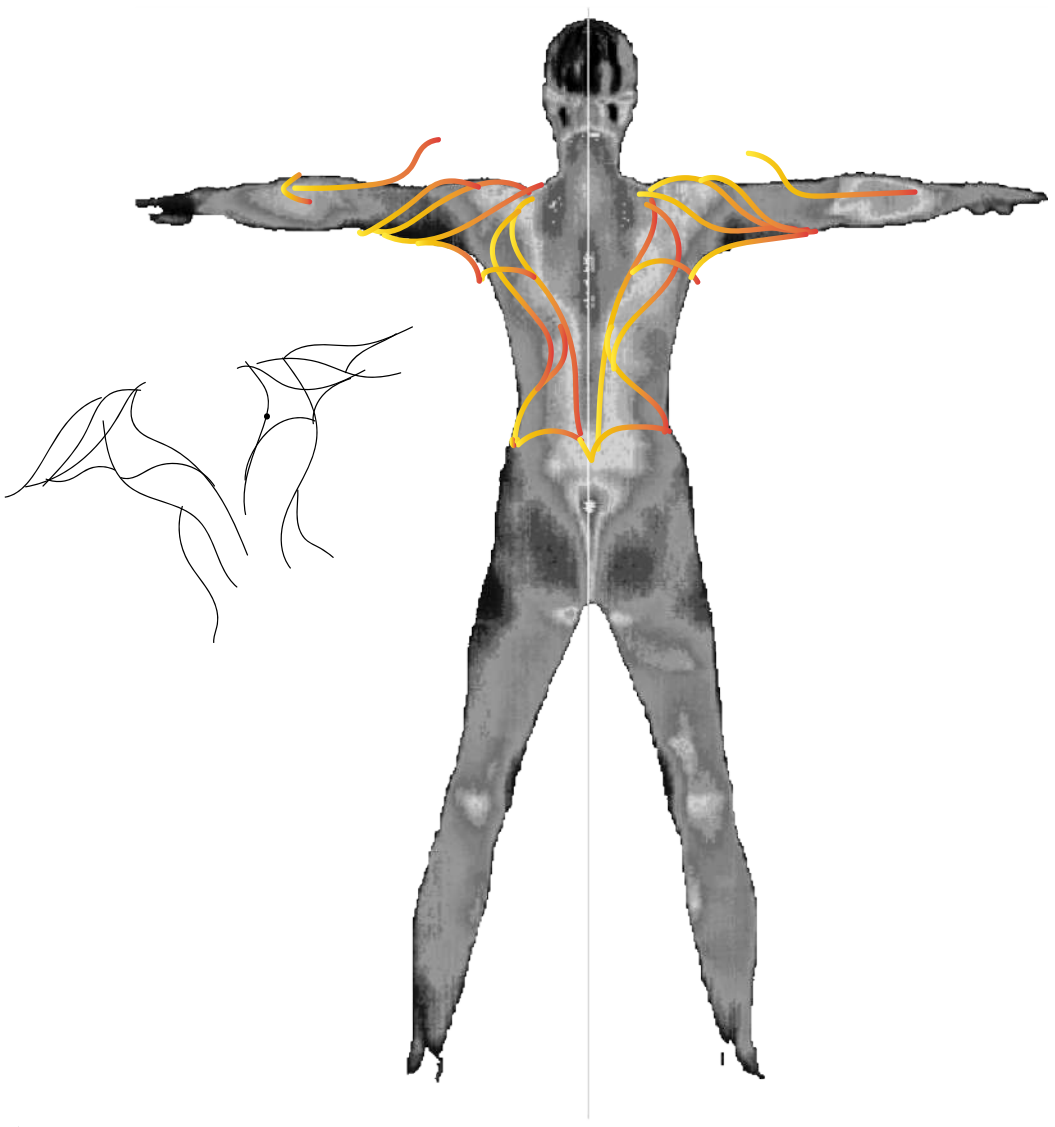
IDEATION: Back Muscles



Understanding which back muscles are relaxed vs. contracted.



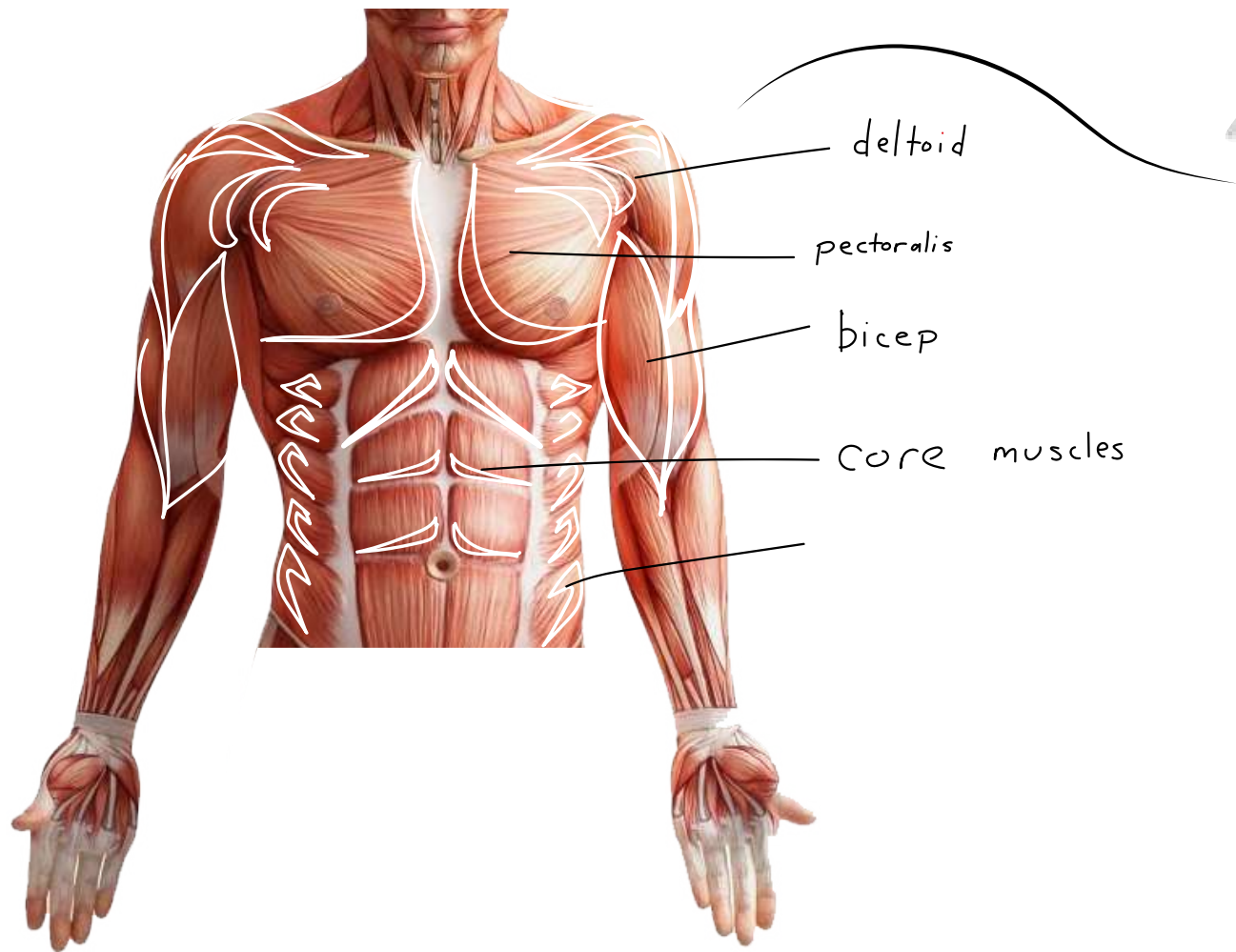
generating lines of connectivity between muscles.



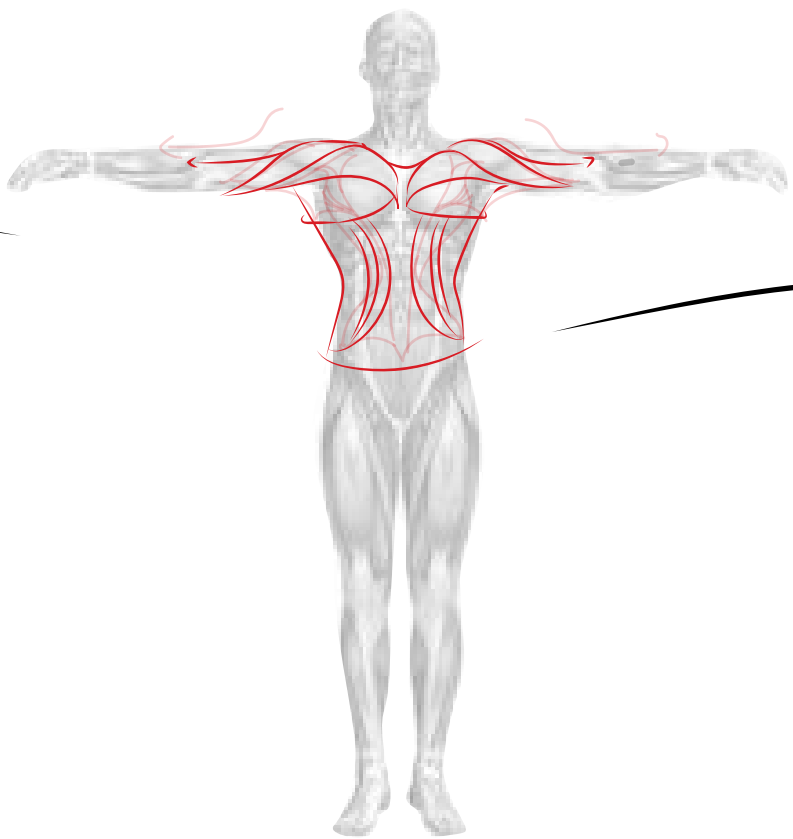
placing pattern on body map for fitment.

IDEATION: Chest / Abs / Shoulders

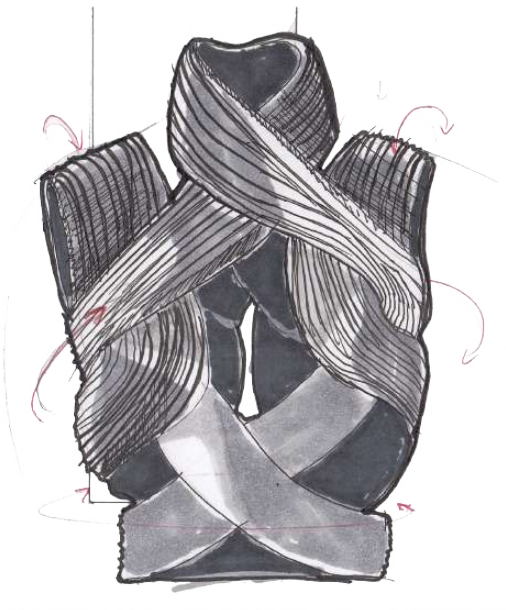
key sketch



understanding compression in chest / abs / shoulder muscles.



directional compression



inspired by movement + circularity for performance gear

FEATURE: Outer Layer

form inpsiration



vine tendrils

the climbing plant, often grown out in spiral form that stretches and wraps around suitable objects.



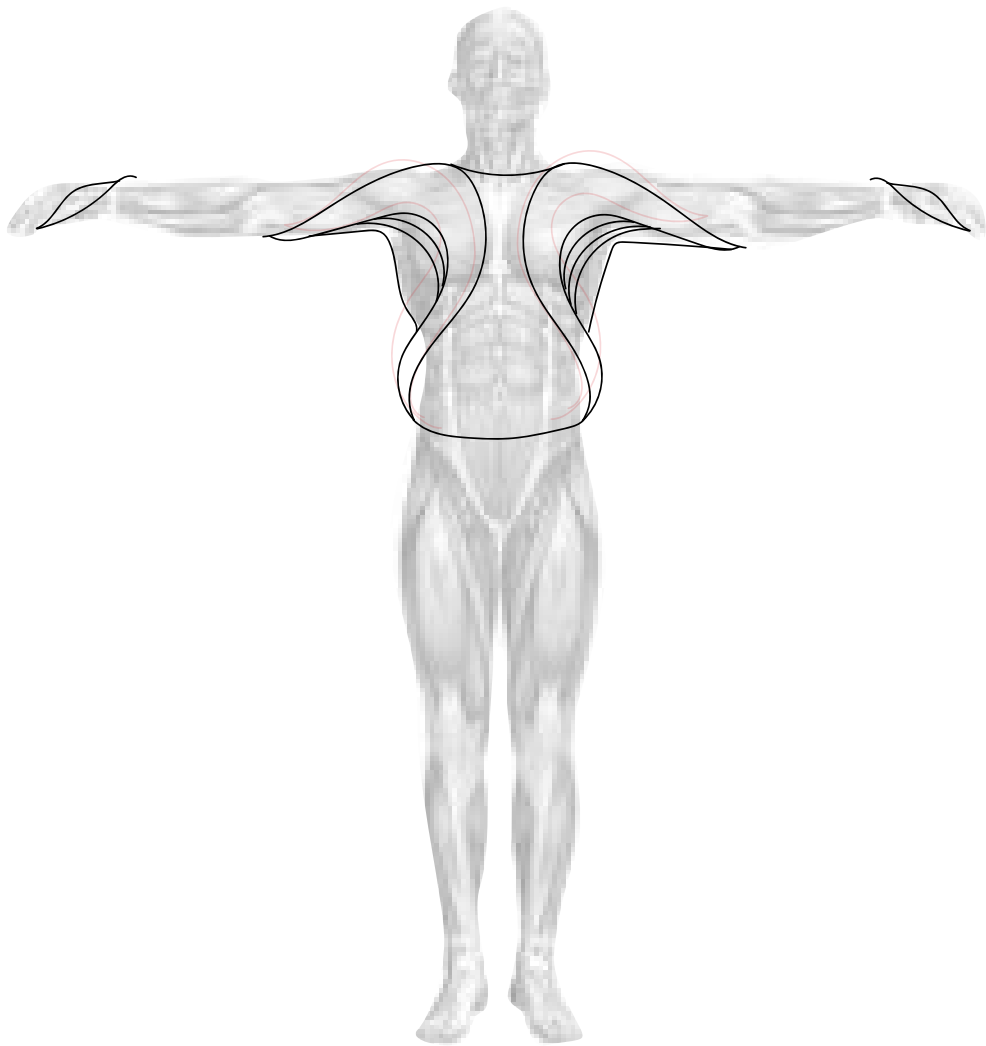
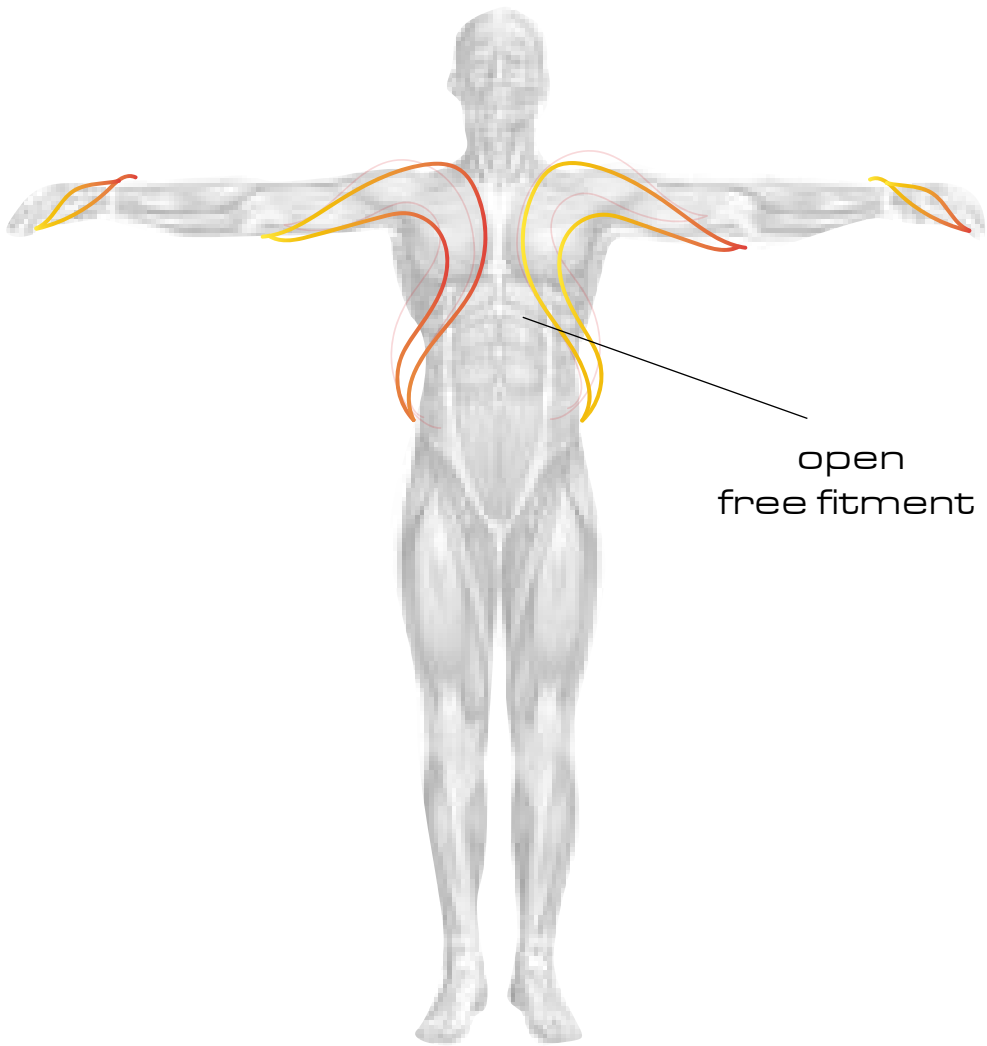
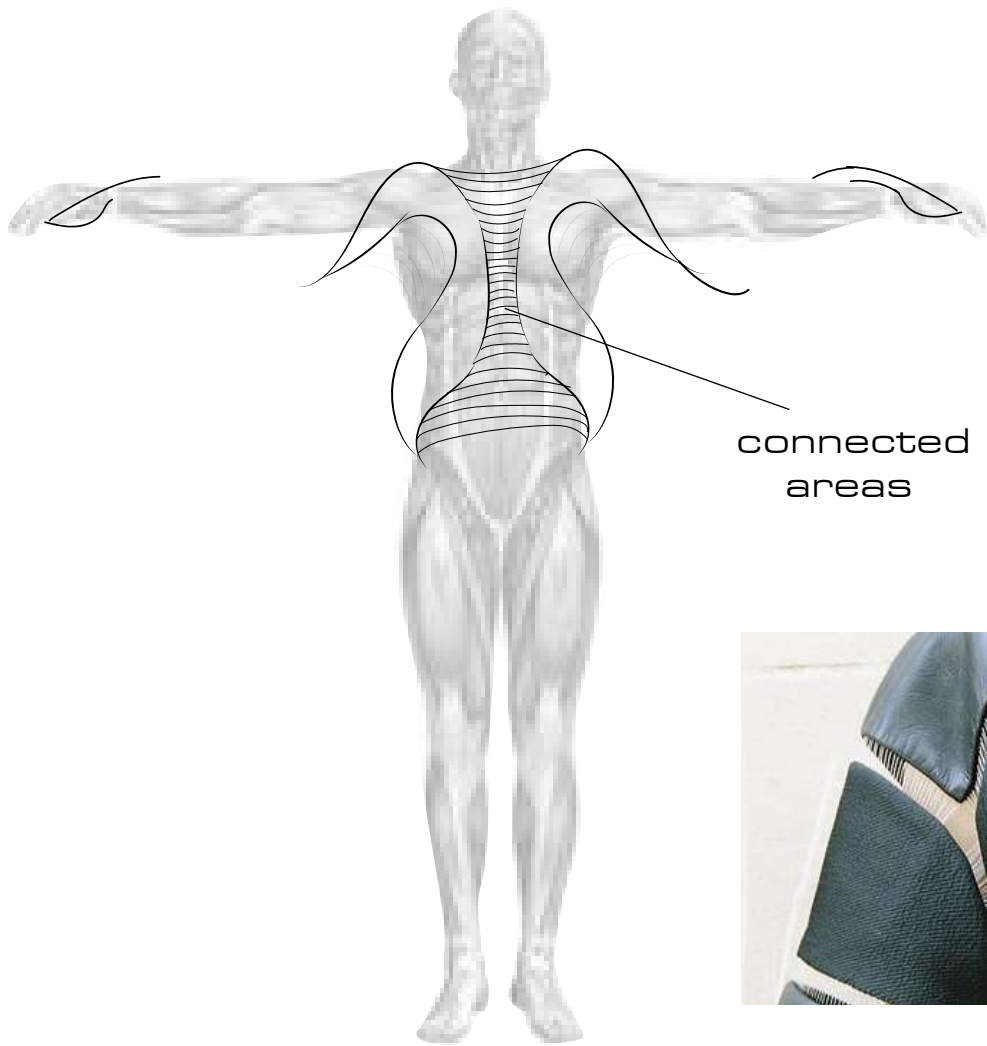
outer layer compression

caging over base layer.

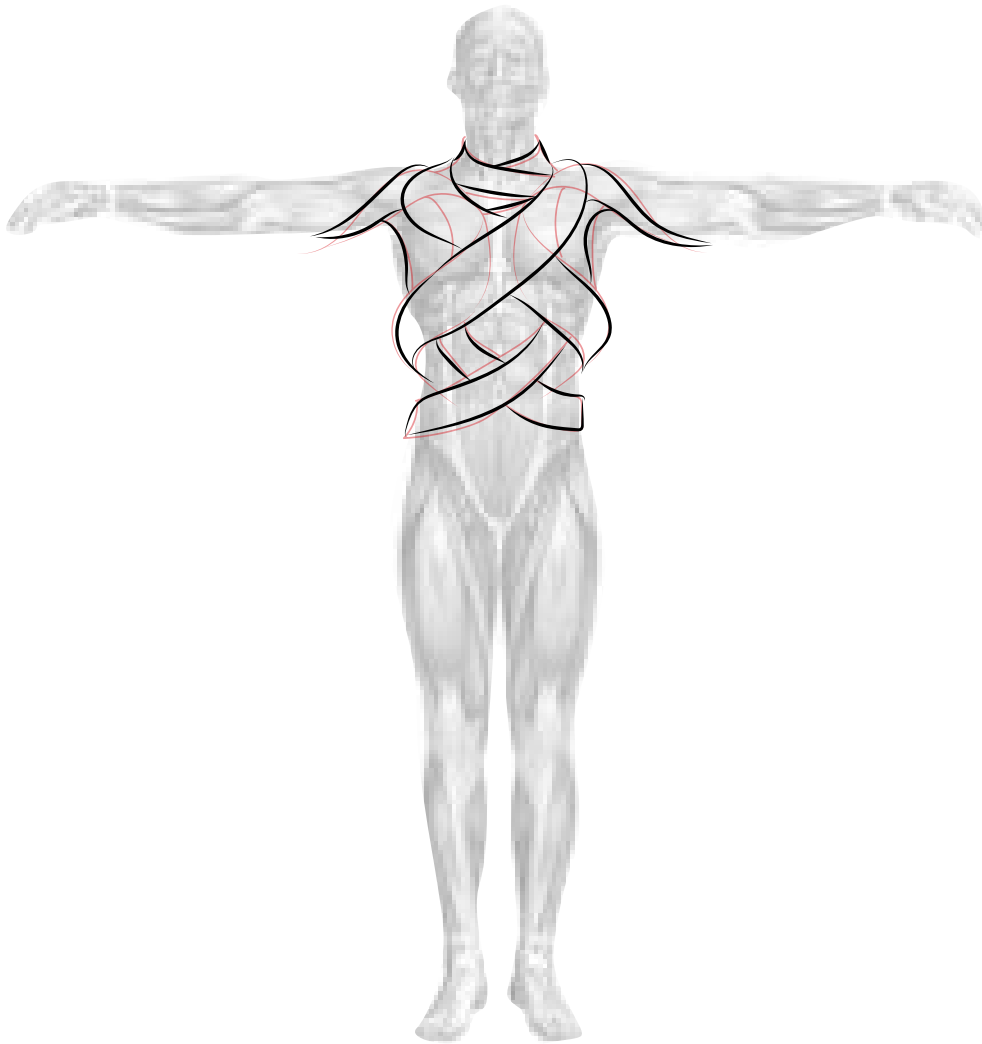
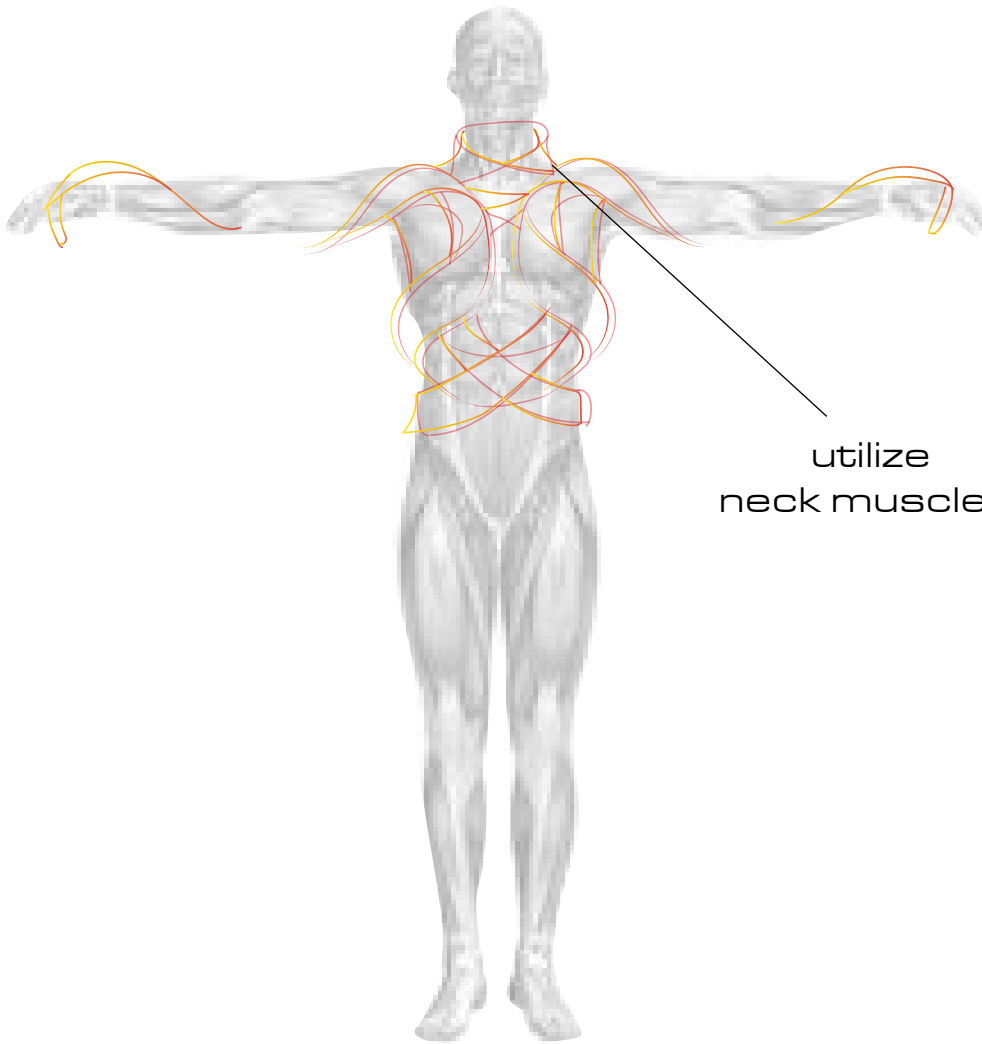
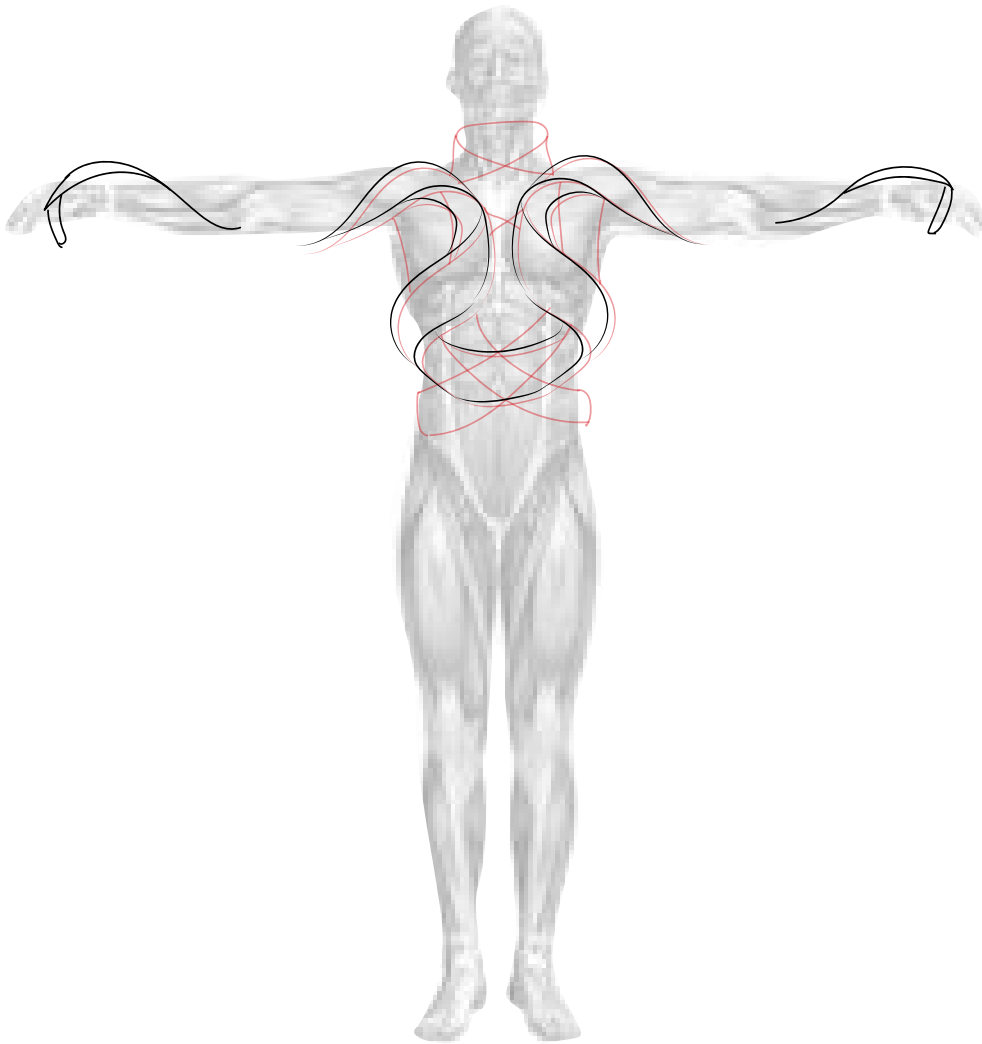
compression continuity of major back & chest muscles to the forearm.

adjustable reinforced structure.

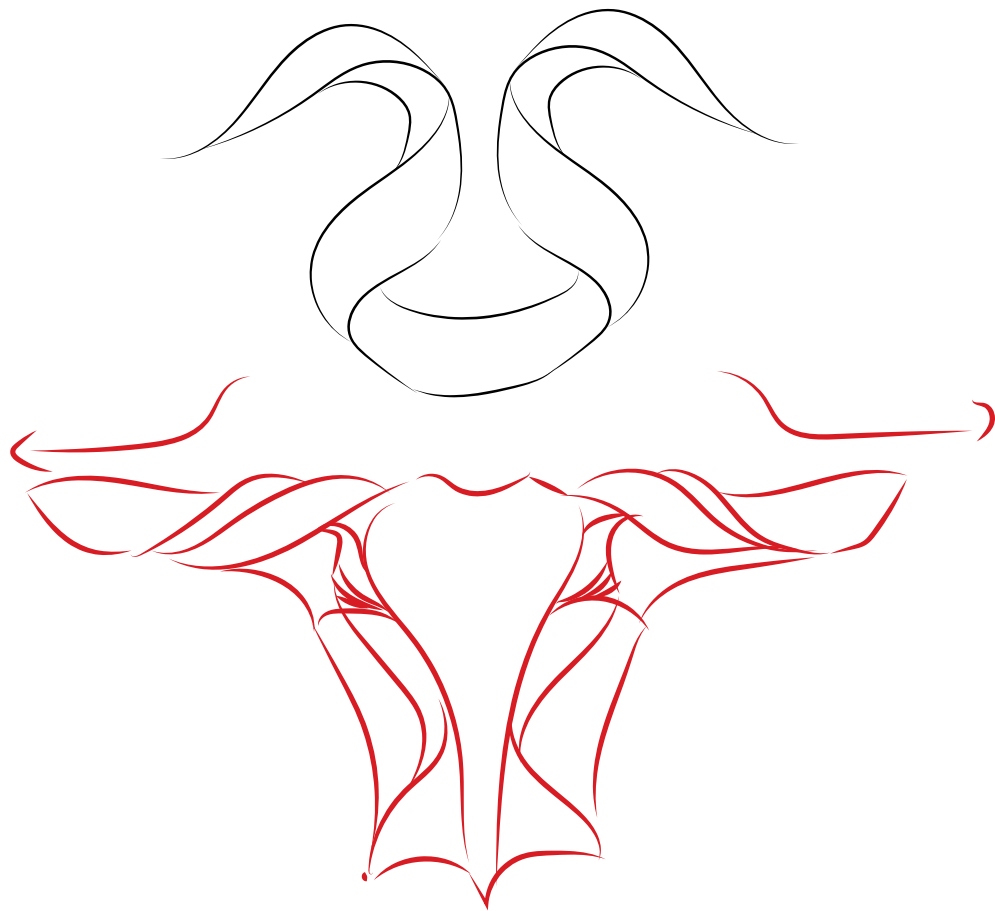
FEATURE: Outer Layer



FEATURE: Outer Layer

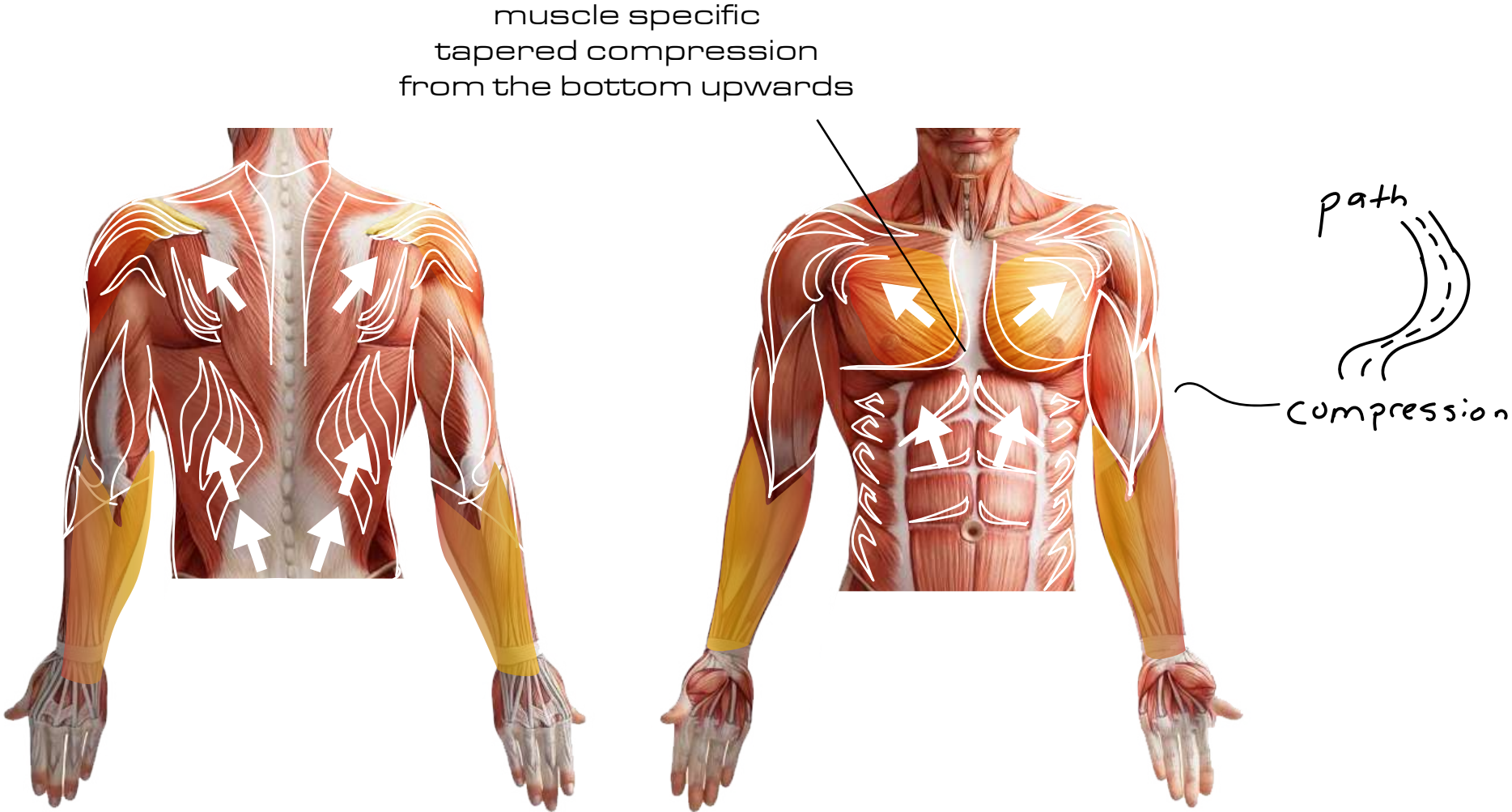


FEATURE: Base Layer

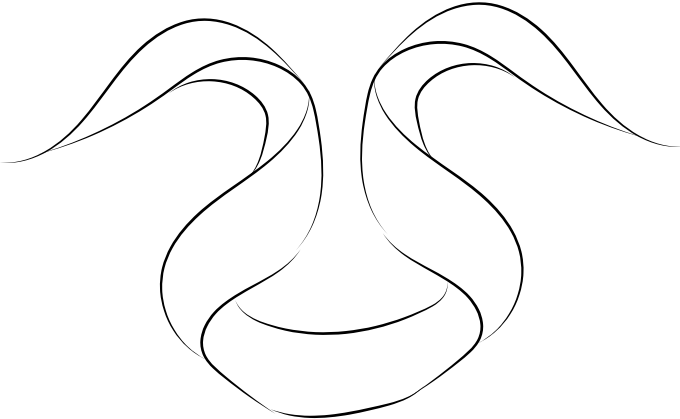


base layer

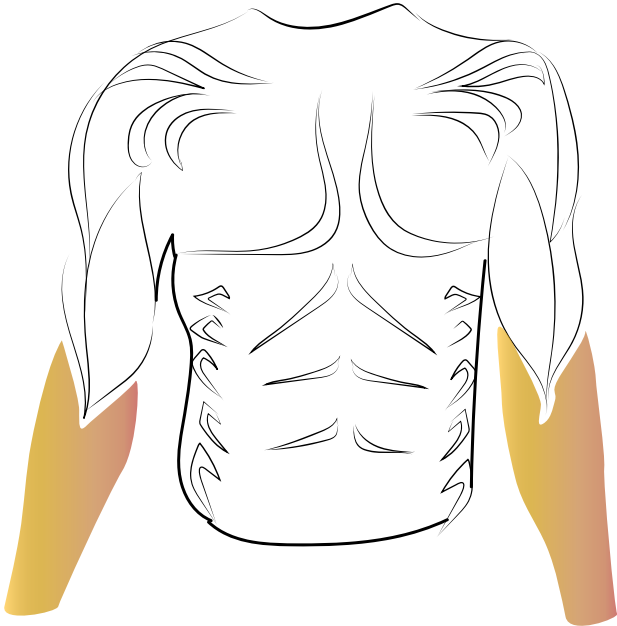
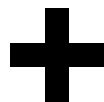
focused compression
on skeletal muscles directed
to the forearms



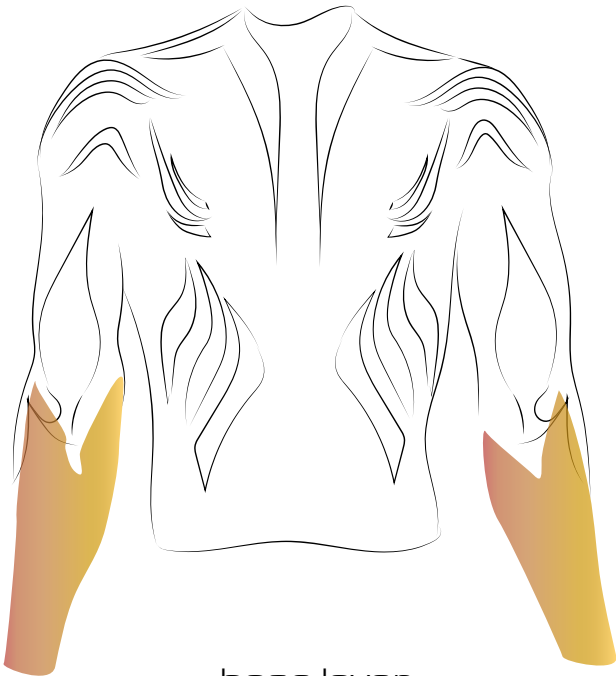
Construction



outer layer



base layer
[front]



base layer
[rear]

light waves



controls under &
over exposure
of light wave lengths



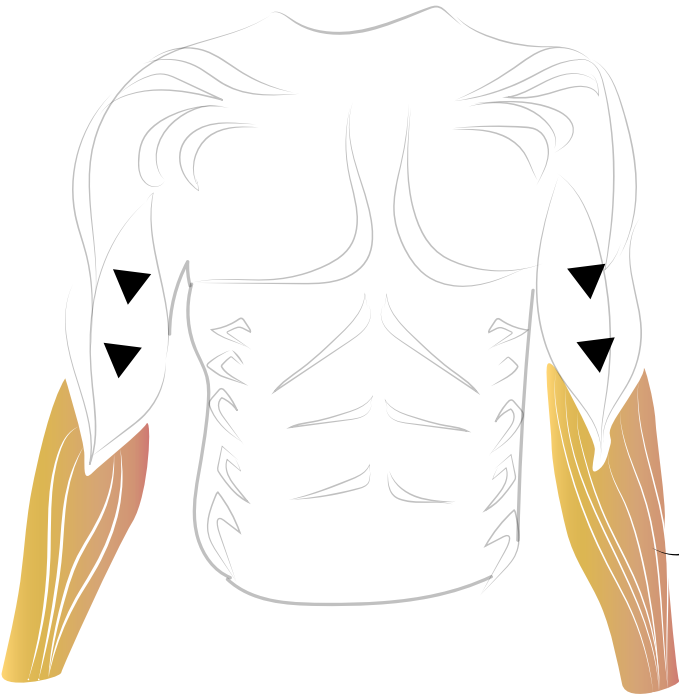
sun



shade



patterns help optimize
efficient circulation to
the forearms.



Dry Brush Circulation



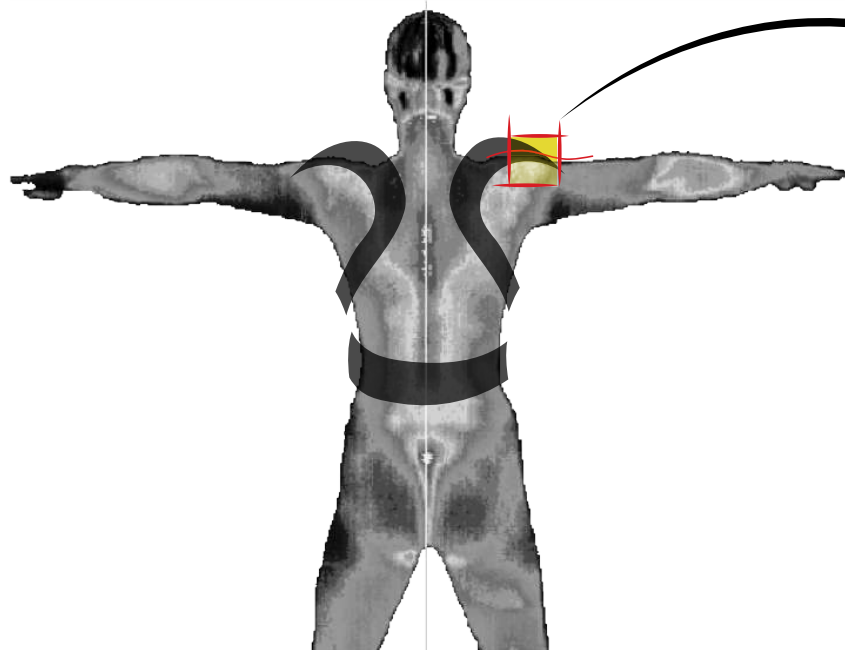
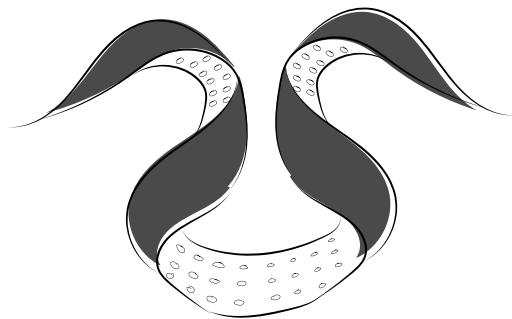
brush / ribbed surface
for applied pressure on
body.



improves lymph flow carrying
cells back into the blood system.

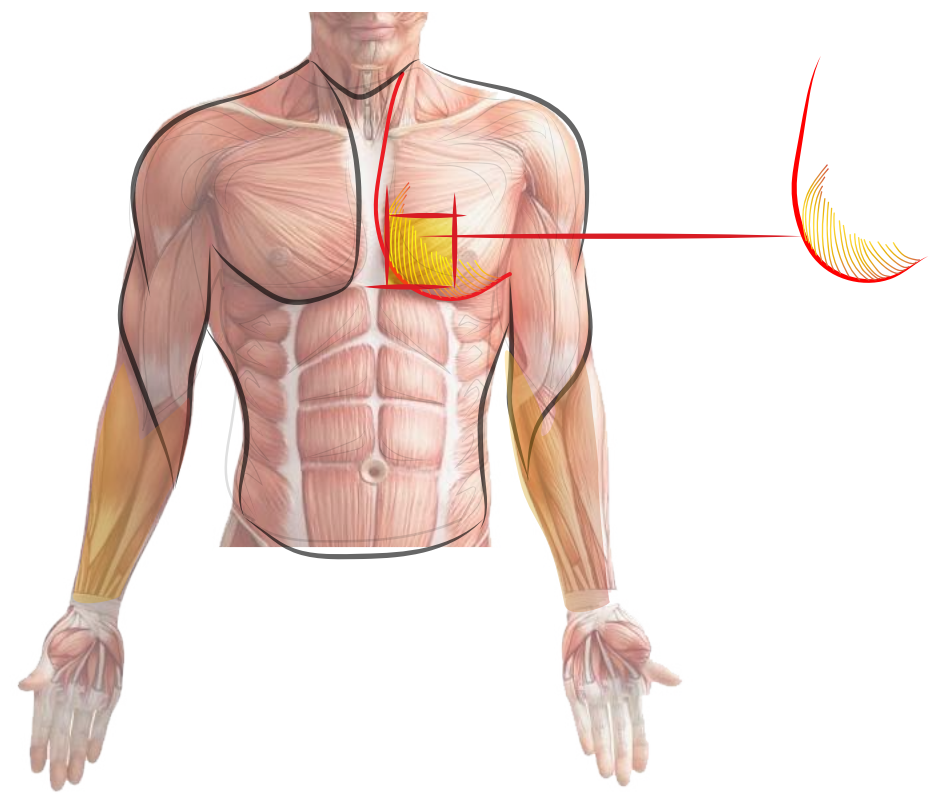


natural brush like structure



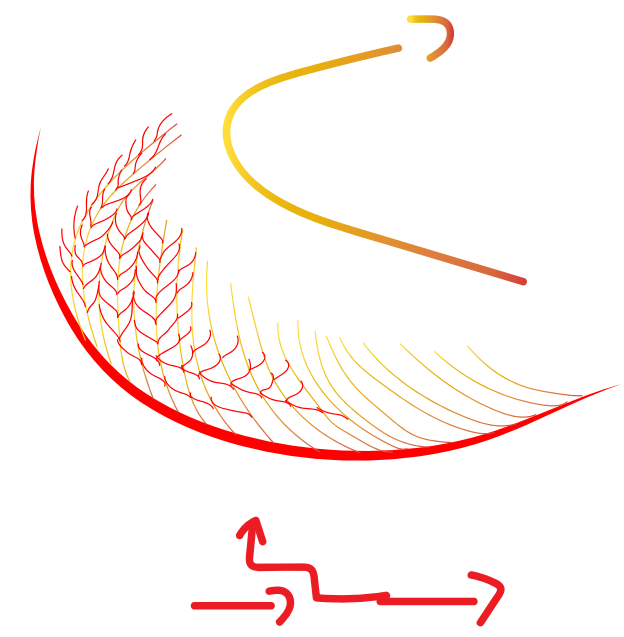
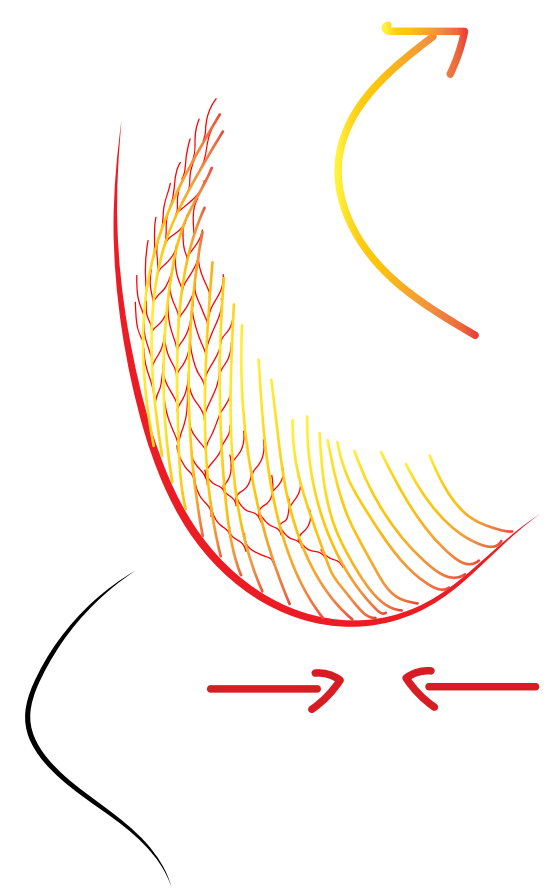
pressure against skin
for circulation by your
climbing movement

Smart Fabrics



base layer adapts to recognition of relaxed muscles.

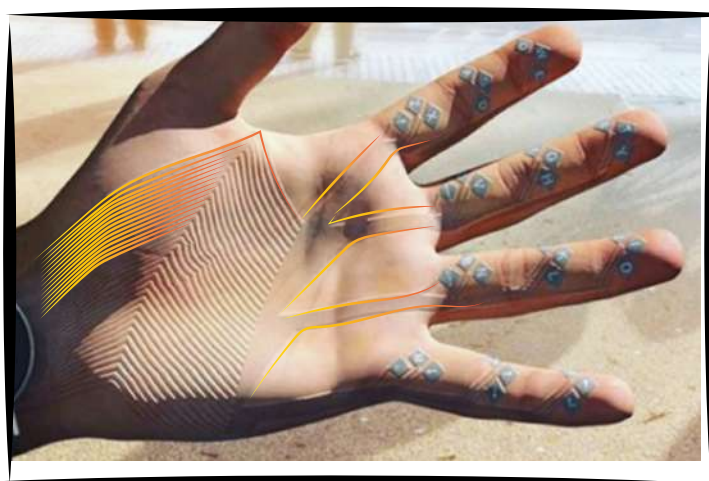
unique adaptive pathways for circulation to forearms.



Controlled
through app?

senses relaxed
muscles

loosens with
muscles in use



sensory exoskeleton
wiring embedded into fibres
for adaptive compression.

Prototype



chest + back compression



chest + bicep compression



stretch + adaptability

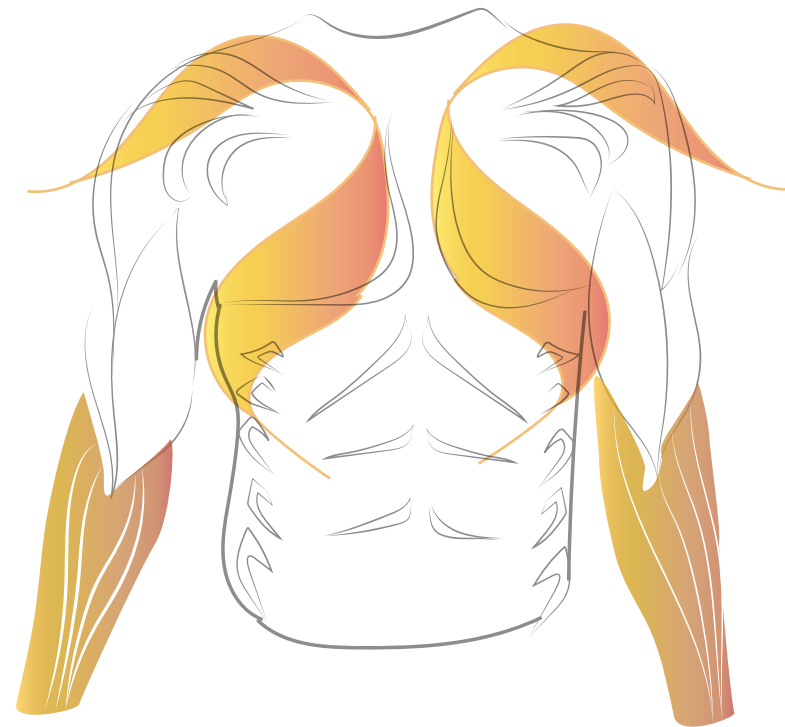
base layer

What if we could move with the earth?

How could we tune our circadian rhythm?

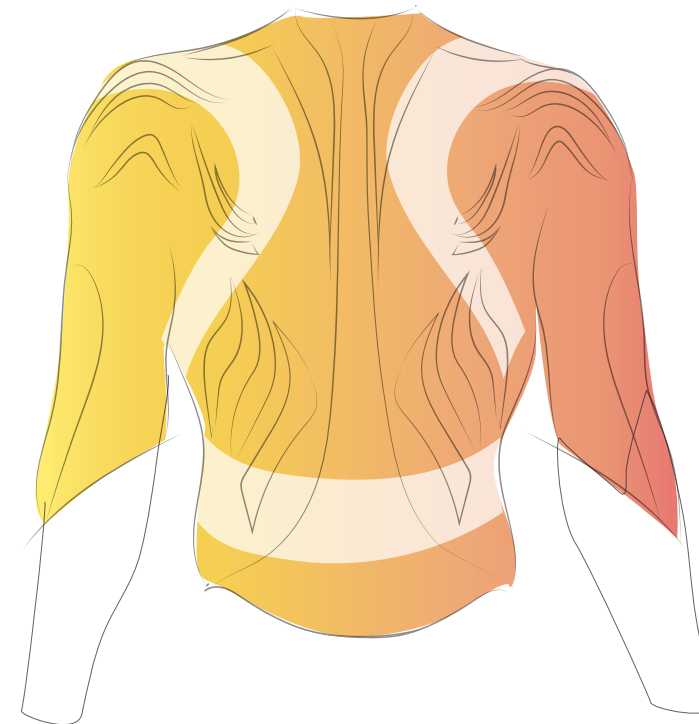
outer layer

compression continuity
reinforced structure



base layer

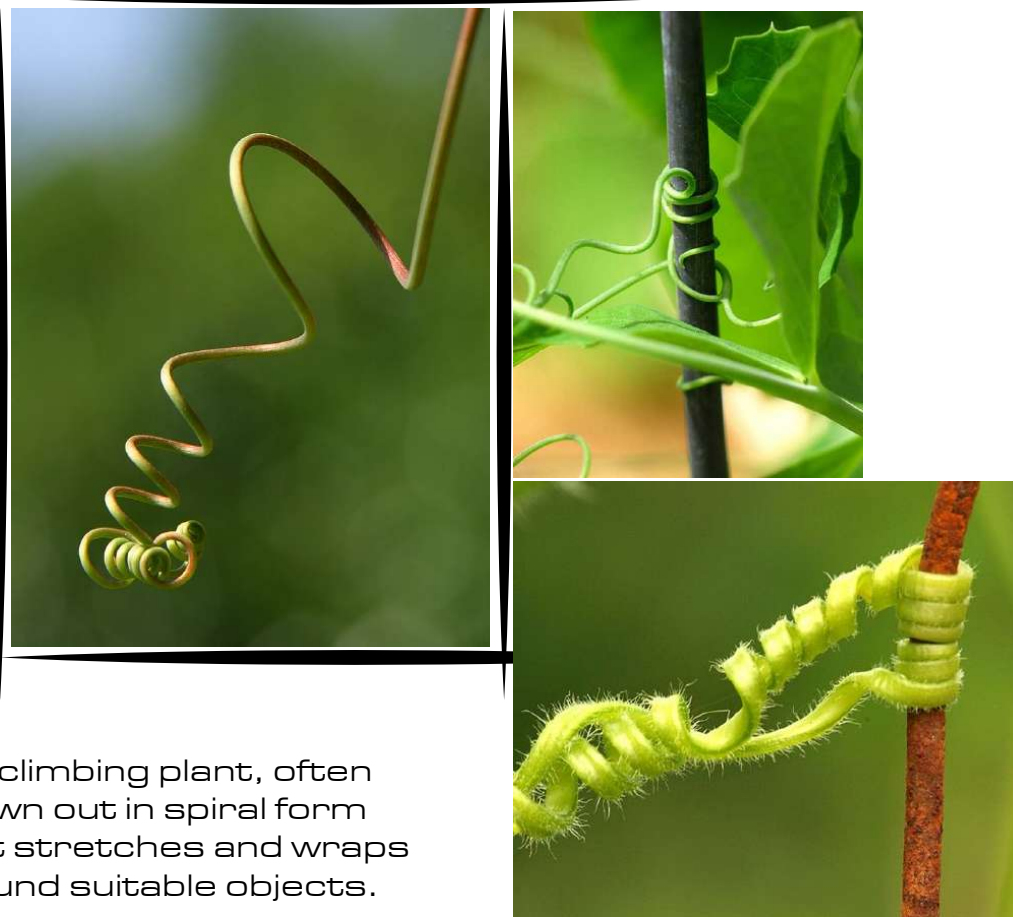
muscle specific
tapered compression



What if we could move with the earth?

How could we tune our circadian rhythm?

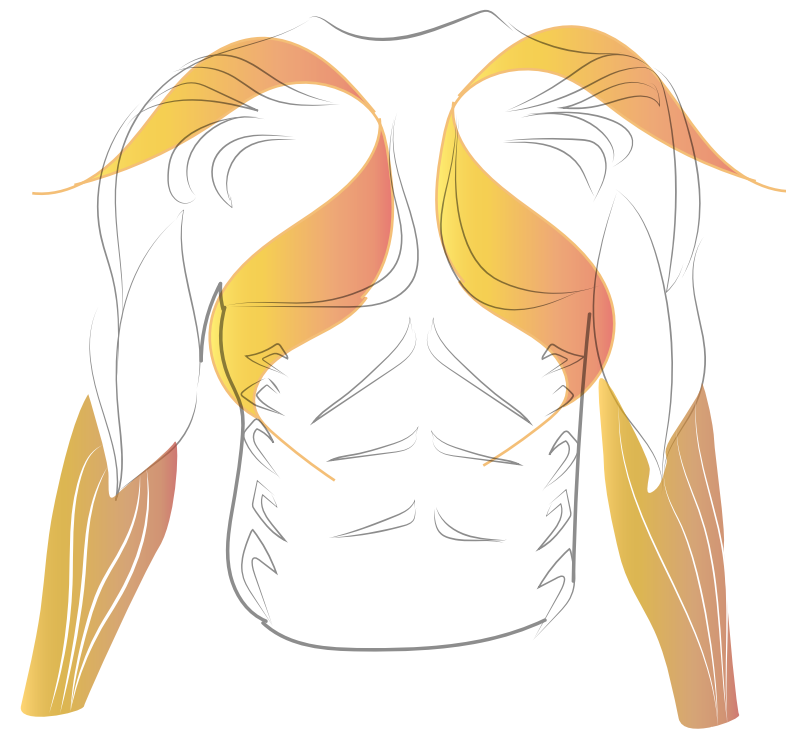
vine tendrils



the climbing plant, often grown out in spiral form that stretches and wraps around suitable objects.

outer layer

compression continuity
reinforced structure



What if we could move with the earth?

How could we tune our circadian rhythm?

impatiens palida



sun



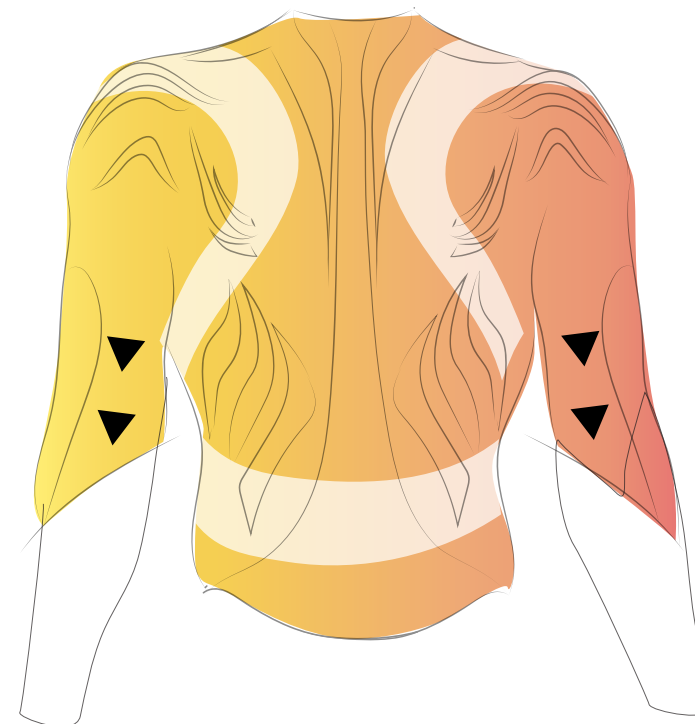
shade

controls under & overexposure of light wave lengths. applied to the forearm for most efficient ciruclation



base layer

muscle specific tapered compression



thank you

