## Tiggr just loves Anatomy! Fun! Fun!! Fun!!!

## BI 199 APWT Discussion 7

I. Attendance \& Announcements Remember poster topic \& outline w/references due by this afternoon! Next several weeks we meet here! Next Thursday upper extremity bones activity $+1^{\text {st }}$ Year Programs.
II. Lower Extremity Multi- vs. Single-ioint Exercises A. Multi-joint Front squat/squat, leg press, lunge B. Single-joint Leg extension, leg curl, calf raise (NB:)
III. Open Discussion

SOURCES: VPL, Francis \& Martin, McMinn \& Hutchings, Panksy $+\ldots$

## Squat!

## Lower Body!

COG to periphery!

Hip
Thigh front back inside

Lower back


Gluteal group
Quadriceps
Hamstrings
Adductors

Erector spinae

| Sprinters |
| :--- |
| rely upon |
| explosive |
| hip \& thigh |
| strength |
| emanating |
| from the |
| Center of |
| Gravity! |



L Sherwood



# Deeper Gluteal Muscles Look Like Pizza Slices!! Superficial to Deep: Maximus, Medius, Minimus! 


superficial
dissection


The gluteus
medius and
minimus muscles look like slices of pizza!
http://www.anatomyexpert.com/structure detail/5715/ Image Source: http://saveyourself.ca/articles/spot-06-gluteus-medius.php

## Knee Surface Anatomy - UC San Diego Clinical Medicine

Quadriceps
R thigh

Medial<br>Joint Line

Lateral
Joint
Line

## Petellar <br> Tendon

Anterior
Tibial Tuberosity
Fibular Side (actual bony prominence not visible)


## Lunge



## Avoid Overstriding!



## Leg Extension



Front of thigh = quadriceps


## Donkey Calf Raise - Straight Knee $\rightarrow$ Gastrocnemius



Technique Analyses of Internet Pictures


Knees straight $\rightarrow 1^{0}$ gastrocnemius

## Technique Analyses (continued)

| More of |
| :--- |
| thigh less of |
| knee directly |
| under pad. |



Knees bent $\rightarrow 1^{0}$ soleus

# Discussion 

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+Q_{Q} ?
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