Lecture 10 SETTING UP A WORKSTATION

Monitor your thought process



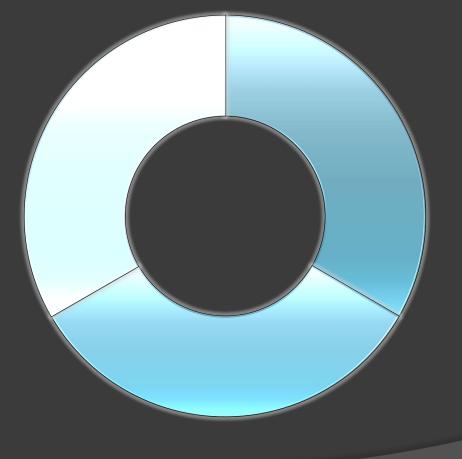
What makes a good setup?

The client/employee is able to:

- o carry out a given task
- At the best of their ability (effective)
- Within a reasonable timeframe (efficient)
- Without compromise on their well-being in both short and long-term

Things to keep in mind

Sales



1 physical well-being
2 stature
3 task

Nature of the task

- % time of task required using keyboard
- % time of task listening, meetings, reading
- Assess level of difficulty of task being engaged: easy – medium – hard
- Total duration of task
- Continuous vs interrupted task
- Productivity vs Creativity

Stature – the fit

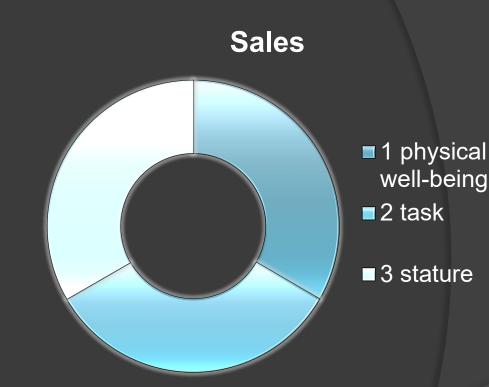
Height – short - medium – tall 1.50-1.69 - 1.70 - 1.80 - 1.81 upwards Weight – slim – average – overweight Gender – male hips vs female hips Age – young (18-24) middle (25-45) **Upper** (>45) Clothing / shoes (heels)

Physical well-being

- Note on-going pain and discomfort e.g.headaches, lower back pain
- Note relevant past medical history
 e.g. car accident leading to whiplash injury
- Note any present physical disability e.g. arthritis
- Any long standing medical condition e.g. scoliosis
- Note any temporary medical condition
 e.g. pregnancy, fractures etc

Concepts to keep in mind

- Gravity
- Leverage
- Alignment
- Support
- Ouration
- Fatigue



What is not aligned with gravity needs to be supported Through active or passive tension

Some thumb rules to follow

- Feet planted firmly to the ground
- Knees below the hips
- Lower back has a lordotic curve
- Shoulders backwards not forward
- Chin tucked in

Some rules not to follow

- One size fits all rules
- Back straight with hips and knees at 90
- Standing desks are better than sitting
- Footrests are necessary
- Armrests are necessary
- Backrests must be used

Setting up a work station

Step 1 – what is the nature of the task?

Productive



Creative / Pensive



Forward & upwards vs Back down



Aim for the stars.....

- Aim for the ideal sitting arrangement
- If this is not enough then you need to consult.
- Ergonomic consultants will make arrangements that take into consideration the other two determinants.
 - Physical attributes
 - Pathologies and complications

Physical attributes - size

- Height (desk, chair, back rest, arm rest)
- Width (chair seat, arm rests)
- Length (seat depth, desk depth)
- Weight (cushioning soft vs hard)

Impact of environment

How do you think the following factors affect our sitting posture?

- Light quality
- Sound
- Temperature

Time factor – how does time affect our sitting ergonomics?

- time and physics / gravity
- Time and fatigue
- Time and stress
- Time and deadlines
- Time at sitting (the POMO)
- Sprinting vs marathon
- Indurance, morale, productivity
- Burnout ☺

Habit retraining

- Set timers
- Set cues
- Set mediating habits (small drinking cup)
- Habit buddy
- Habit cornered (remove the option not to)

What about standing desks?





The truth about standing desks

- Productivity is -----the same (no less no more)
- Pain (less of the old more of the new)
- Impact on circulation
- Body alignment :
 - Above hips stays the same
 - Below hips changes

Alternatives



Open vs closed kinetic chains

There are two kinds of kinetic chain exercises: open and closed. In open kinetic chain exercises, the segment furthest away from the body — known as the distal aspect, usually the hand or foot is free and not fixed to an object. In a closed chain exercise, it is fixed, or stationary.

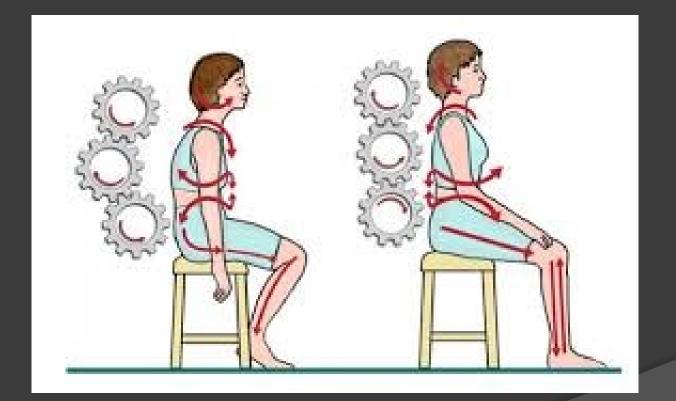




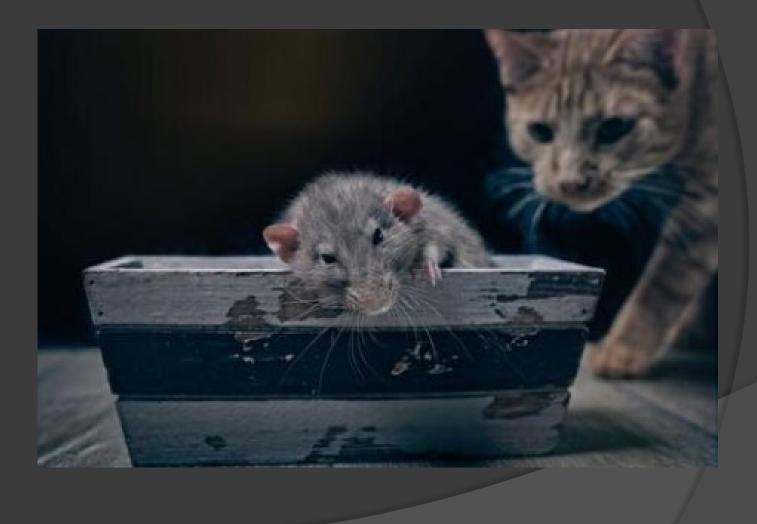
Is sitting posture open closed kinetic?



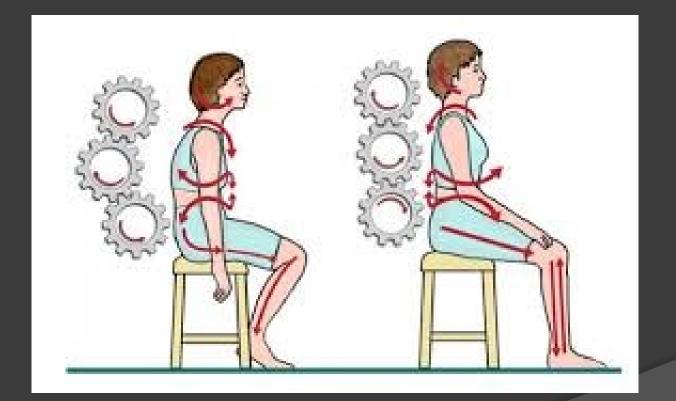
When sitting our posture acts as if it were a closed kinetic chain



The analogy of the cat



When sitting our posture acts as if it were a closed kinetic chain



Ergonomics as Therapy

- Ergonomics is not just support
- Is Ergonomics can be used for therapy
- We can find the right posture and set the ergonomics accordingly
- We can set the ergonomics to force us into the right posture
- The obvious e.g chair
- Not so obvious e.g. the monitor

 What is the nature of the task



 What is the nature of the task



What is the stature of the individual?



Keep in mind that just like with a shoe its better to have it slightly bigger than slightly smaller. BIGGER FIT will hinder you! SMALLER FIT will cripple you!!

What is the stature of the individual?

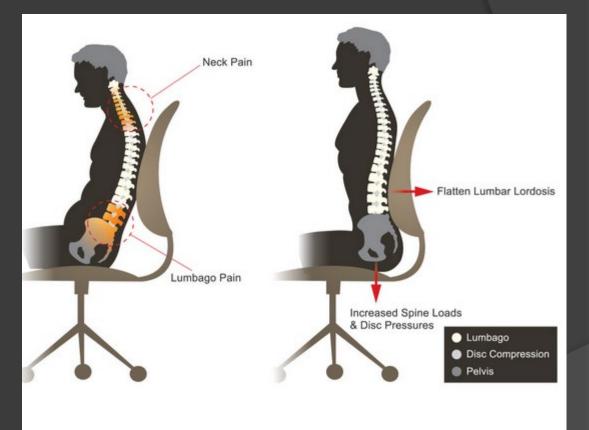


Keep in mind that just like with a shoe its better to have it slightly bigger than slightly smaller. BIGGER FIT will hinder you! SMALLER FIT will cripple you!!

 What modifications need to be made?



 What modifications need to be made?
 This is where expertise comes in



Assess and Re-assess

- Despite having found a theoretically sound posture there might still be set backs
- The body needs time to adapt
- The body needs time to learn
- The body needs time to correct maladaptive
- Small imperfections need time to surface

Recap

- Aim for optimal posture
- Start with textbook ideal
- Include stature
- Include pathologies
- Acknowledge the environment
- Build a habit
- Re-assess after 3 weeks
- There is not ONE optimal posture

Keep moving- optimal not perfect





