

Handbook on Working with Computers



Introduction

With the rapid advancement of information technology, use of computers is already part of many people's daily life. Those engaged in electronic information and computer-related profession have to use computers for long periods. Their regular and repetitive actions in operating their computers may cause repetitive strain injuries and visual fatigue. This may result in eye health risk & reduced work efficiency.

This handbook offers advice on some commonly encountered safety and health problems in relation to computer work.

DO YOU KNOW ?

Differences in habits with digital screens between now and 2 years ago

Base All Respondents (n=4034)

Question a: If you had to compare
the way you used digital devices 2 years ago
to your actual habits, would you say that...

■ Total Yes (yes a lot)

■ Yes, a lot a more

Time spent on digital devices
now than 2 years ago



Response	Percentage
Yes, a lot a more	59%
Total Yes (yes a lot)	89%

Looking at digital
devices for a longer period
of time now than 2 years ago



Response	Percentage
Yes, a lot a more	44%
Total Yes (yes a lot)	82%

Reading text more often
on digital devices
now than 2 years ago




Response	Percentage
Yes, a lot a more	40%
Total Yes (yes a lot)	76%

Switching more often from
one digital device to
another now than 2 years



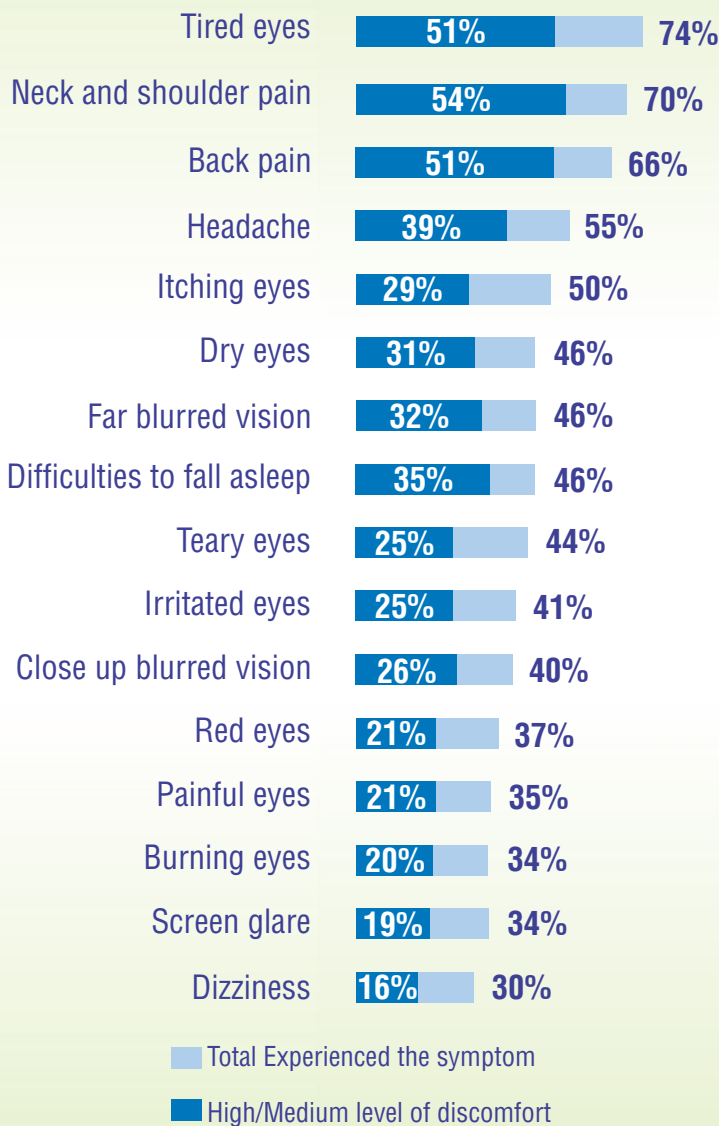
Response	Percentage
Yes, a lot a more	39%
Total Yes (yes a lot)	76%

Looking at digital devices at
close distances more
often now than 2 years ago

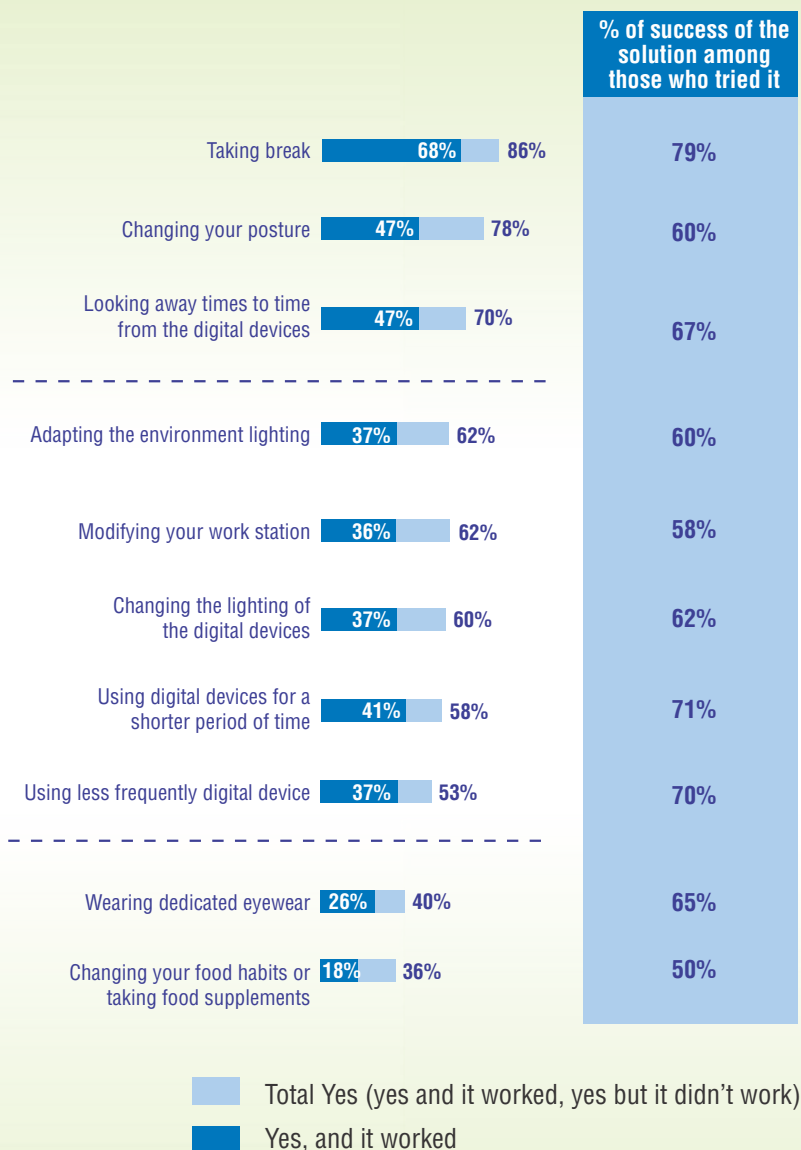


Response	Percentage
Yes, a lot a more	32%
Total Yes (yes a lot)	67%

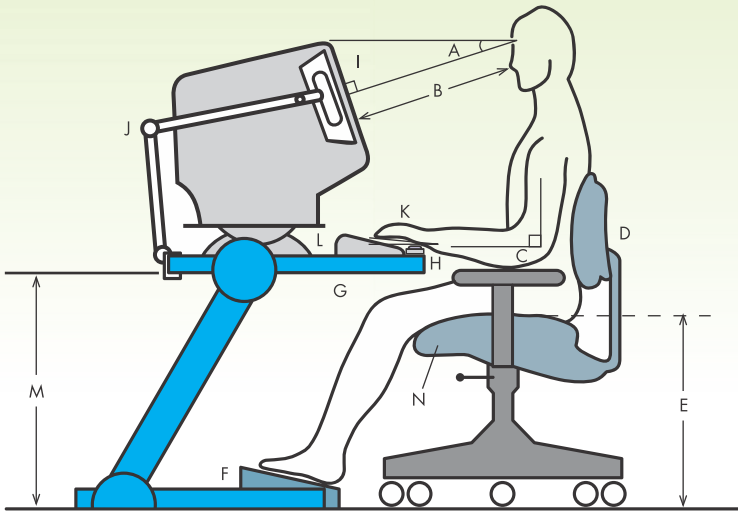
Level of discomfort experienced for each symptoms



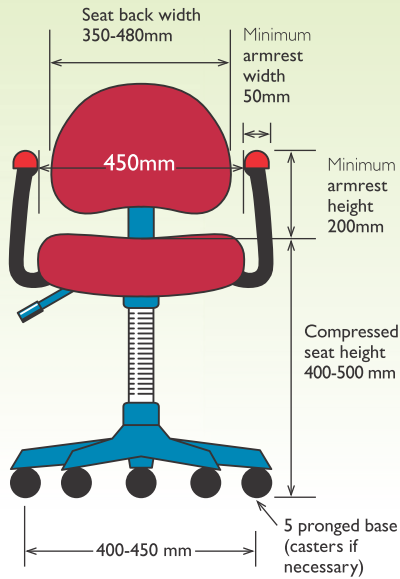
Solution tried to relieve symptoms



Recommended computer workstation design and working posture



- A Comfortable viewing angle, e.g. 15° - 20°
- B Comfortable viewing distance, e.g. 350 - 600mm for text of normal font size
- C Forearm and arm at about right angle
- D Adjustable back rest
- E Adjustable seat height
- F Firm foot rest if required
- G Adequate knee clearance
- H Wrist rest if required
- I Screen at right angle to line of sight
- J Adjustable document holder
- K Wrist kept straight or at most slightly inclined
- L Screen support adjustable for rotation and tilting
- M Adjustable table height preferable
- N Rounded or scrolled edge seat pad



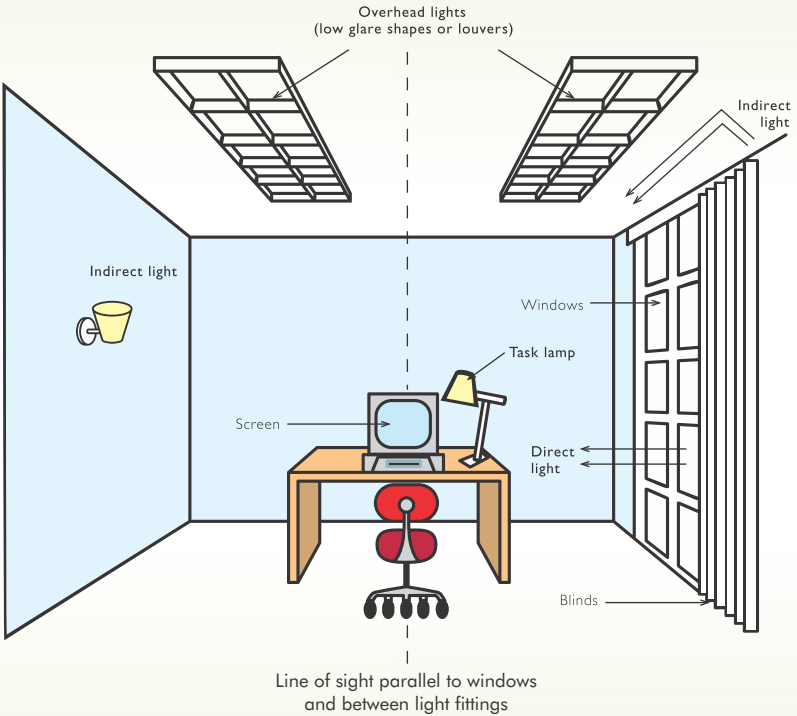
A working chair should have

- A stable base
- Adjustable seat height
- A slightly concave seat pan
- Swivel seat with round front edge
- Adjustable backrest, both in height & tilt
- Adjustable armrest

Environment

Excessive lighting levels have a masking effect & make it difficult for the user to see the display on the screen

Recommended lighting arrangement for a computer workstation



One of the main causes of eye complaint made by a computer user is glare

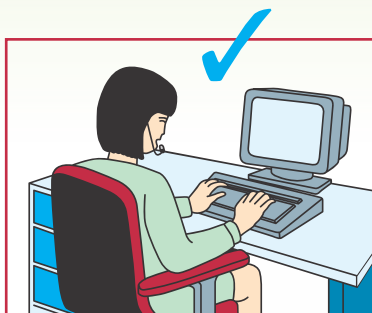


Use of Anti-glare screen is recommended

Do's & Don'ts

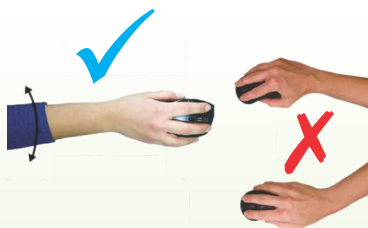


Document Holder



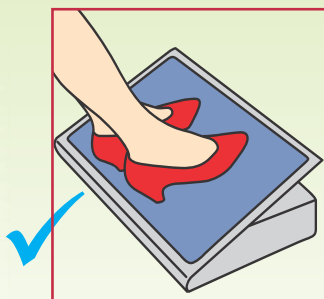
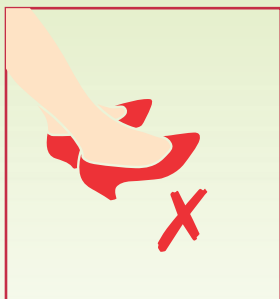
Making phone calls during working

Keep your
wrist straight

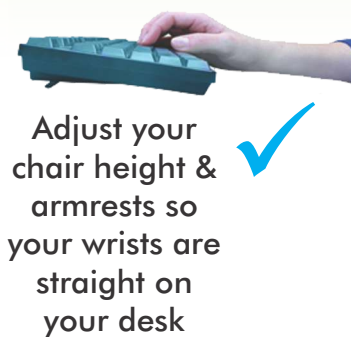


Move the
mouse with you arm
not your wrist

Correct posture while using mouse

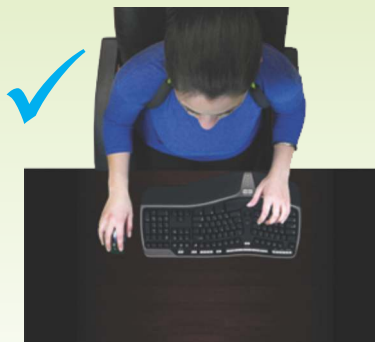


Legs while sitting on chair





Arms misaligned
Keep everything
within easy
reach



Shoulders
arms & wrists
aligned

Laptop ergonomics



Reduced blink rate may cause Redness, Irritation, Itching & Dryness



If the above symptoms persist
Consult your Ophthalmologist

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Sources :

Adapted from 1. www.labour.gov.hk 2. www.visioninfo.com
3. www.posturemedic.ca

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