







 Entering text and using input devices such as touchpads or mice are activities which involve the whole body, and not just the hands and lower arms; constant repetition of movement can cause an overload of muscles of the upper extremities and back.



1. Background II



- Studies show that hand and wrist tendonitis, Carpal Tunnel Syndrome, Cubital Tunnel Syndrome, and epicondylitis are diseases typically associated with translation work. (de Léon 2007; Lavault-Olléon 2011)
- Explanations for those are: arrangement of letters and other keys on keyboards is **not based on ergonomic considerations** and non-physiological movements are needed to type. (Pineau 2011)
- **Eyestrain** due to long hours peering at a computer monitor can cause vision problems, known as Computer Vision Syndrome, which can present as headaches, ocular discomfort, dry eye, diplopia, and blurring. (Rosenfield 2011)







| Characteristic | Sub-groupings | | |
|----------------|------------------------|--------------------|---------------------|
| Sex | female (n=25) | male (n=11) | |
| Age | 18-45 (n=16) | 45 and over (n=19) | |
| Employment | freelancer (n=10) | commercial (n=9) | institutional (n=17 |
| Cat tool use | High (n=20) | Low (n=11) | |
| Office type | Private | (n=21) | |
| | Semi-private (1 other) | (n=6) | |
| | Shared (>1 other) | (n= 7) | |

| 4. Results o | of workplace observation | s: assessments |
|-----------------|------------------------------------|-------------------------------|
| Aspect | Ergonomic | Problematic |
| Ambient noise | up to 65 dB (n=27) | over 65 dB (n=9) |
| Temperature | up to 23° C (n=8) | over 23° C (n=28) |
| Lighting | adjustable (n=17) | non-adjustable (n=19) |
| Desk height | appropriate for user (n=17) | too high or low (n=19) |
| Chair height | adjusted correctly for user (n=17) | not adjusted correctly (n=19) |
| Chair back | movable (n=19) | static (n=16) |
| Feet | can touch ground (n=22) | cannot touch ground (n=14) |
| Screen height | 5-10 cm under eye level (n=8) | too high (n=28) |
| Screen distance | 60-80 cm away (n=25) | too far (n=11) |
| Keyboard | 10-15 cm from desk edge (n=14) | too close or far away (n=22) |
| Documents | between keyboard + screen (n=13) | not in front of person (n=18) |



4. Results of workplace observations: Interviews













Zurich University of Applied Science 4. Results of workplace observations: Interviews & zh observations Recent health complaints in comparison to ergonomics: Shoulders 100% always 80% mostly 60% often sometimes 40% seldom 20% never 🖉 0% p < 0.05 much ergonomics little ergonomics ersities of Applied Sciences and Arts

4. Results of workplace observations: Interviews















| 4. th | Results of in-depth interviews: Interventions at new workplace |
|----------|--|
| | Interviewee |

| | | Interviewee | | | | | | |
|-------------|--|-------------|--------|---|----|---|----|-----|
| | | 1 | Ш | Ш | IV | V | VI | VII |
| Chair | Chair height adjusted | | | | | | | |
| | Back rest adjusted | Х | Х | | Х | | Х | |
| | Armrests adjusted | Х | | | | | | |
| Desk | Set to right height | Х | | | | | Х | |
| | Change position to improve inadequate lighting | х | | | | | | |
| Screen | Height adjusted | | | | Х | Х | Х | |
| Keyboard | Put flat on desk Pull closer to the body | X X | X X | | Х | х | Х | |
| Air quality | Air is too dry use humidifier | | | х | | | | |
| Breaks | Increase frequency of beaks | Х | | | | | | |
| | | v | | | | Y | Y | |

Zurich University

















de León, M. E. (2007). *Ergonomics for translators and interpreters.* AbroadLink. http://www.abroadlink.com,

Lavault-Olléon, E. (2011). L'ergonomie, nouveau paradigme pour la traductologie. *ILCEA Traduction et Ergonomie* 14. http://licea.revues.org/index1078.html

Pineau, M. (2011). La main et le clavier : histoire d'un malentendu. ILCEA Traduction et Ergonomie 14. http://ilcea.revues.org/index1067.html

Rosenfield, M. (2011). Computer vision syndrome: a review of ocular causes and potential treatments. *Ophthalmic Physiol Opt* 31, 502-515.

Zurich Universities of Applied Sciences and Arts



