

This Information Sheet provides guidance on how to prevent health problems which may arise as a result of having your display screen equipment set up incorrectly. It forms part of a series of Information Sheets which supports the Safe Use of Computers (DSE) Policy Standard.

Additional information can also be found on the Health and Safety Services Website – <u>hss.bangor.ac.uk</u>



Preventing Health Problems

Problem	Incorrect	Correct
Wrist and finger pain	B1 Image: Chair not adjusted to the correct height or too far from the desk to allow a perfect L between the physical days of the foregoing and th	 G1 G1 WWW # growthe could WWW # growthe could WWW # growthe could Move the chair to the desk and sit back on the seat Adjust chair back to support the upper body
	 shoulder, elbow and wrist so the fingers are not horizontal to the keys or the mouse. Dirty mouse. Striking keys too hard. Not using the mouse correctly Effect: Head tilts forward, shoulders are hunched, blood circulation restricted as feet wrapped round chair. If the fingers are not horizontal to the keys or mouse the wrist ends up unsupported which leads to additional strain 	 Raise the chair seat so the upper arms are vertical with the elbows and level with or just above the desk Place the mouse directly in front of the shoulder and as close to the body as possible Ensure the mouse is kept clean Use keyboard shortcuts to prevent overuse of mouse
Shoulder pain	B2 V WWW. HEIGDOING'LS. CO.LA	G2 Very engineering of the second sec
	 Cause: Setting the chair so feet are firmly on the ground leading to the chair being too far from the desk OR fixed chair arms. Both cause the User to sit with arms stretched out rather than in the L position (see above) Effect: Arms stretched forwards, shoulders lifting causing muscle tension 	 Set the chair as above Use a foot rest if feet don't touch the ground when the chair seat height is adjusted Height adjustable chair arms support the upper body, if they restrict desk access consider removing them

Problem	Incorrect	Correct
Lower back pain	 Cause: Chair set at the wrong height. Using a chair that does not have an adjustable back, separate from the seat which can offer lumbar support. Sitting on the edge of the chair leaning forwards. Sitting with the legs crossed causing uneven weight on each buttock. Cramped conditions so user can only sit at the desk by twisting or leaning forwards Effect: Unnecessary strain on the back muscles leading to back ache and discomfort 	 Ensure the chair has adjustable height and back support to achieve the sitting posture shown above Ensure the under desk space is kept clear and that legs are not obstructed by drawer units / equipment Don't sit with legs crossed Use a footrest to support legs if the floor can't be reached following adjustment of the height of the chair seat
Neck pain	B4 Image: Too much up and down movement of the neck. Sitting with telephone handset held at the base of the neck. Using bifocal glasses so the neck is bent backwards to focus on the screen. Twisting to see the monitor Effect: Constantly moving the neck or sitting with the neck in one position for a prolonged period can cause muscle fatigue leading to aches and pains	 G4 G4 <i>Construction</i> Sit with the monitor face on Use a document holder placed at screen height and in the same focal plane to minimise head twisting and tilting Hold the handset in the 'non-writing' hand or use a headset instead of handset Seek advice from an Optician regarding special glasses for bifocal wearers or have the bifocal section made wider

Problem Incorrect Correct Eyesight defects – temporary visual fatigue, dry eyes Image: Correct Image: Correct

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Cause: Staying in the same position, concentrating for too long. Poor positioning of DSE. Poor legibility of the screen or source document. Flickering screen. Glare from monitor, lights or windows
Effect: DSE is not associated with eye damage but it can raise awareness of those with pre-existing vision defects. Temporary visual fatigue can lead to impaired visual performance, red or sore eyes and headaches. Glare can cause eye strain and some contact lens wearers suffer from dry eyes as the heat generated by DSE can
Make sure the viewing distance is the eyes and the eye

make the air seem drier around the monitor area

- Make sure there is a comfortable viewing distance between the eyes and screen
- Ensure the top of the monitor is just below eye level
- Place the desk between lights and not directly under them. If this is not possible switch the overhead light off and use an angle poise lamp
- To reduce glare from windows move the monitor or fit blinds to eliminate the glare. If blinds can't be fitted, fix a tinted film to the window instead
- Ask IT Services to look at the monitor if there are problems with flickering, poor legibility etc
- To overcome dry eyes, blink more often and drink plenty of water to avoid dehydration
- Every hour carry out a task away from the monitor to give the eyes a rest eg photocopying, rest break
- If work is difficult wearing bifocals seek advice from an Optician regarding specialist glasses

Problem	Incorrect	Correct
Fatigue and stress	 Cause: Poor job design or work organisation. Including unsuitable equipment, uncomfortable environment, increase in work pace, pressure to complete the task and lack of training Effect: Fatigue and stress and their associated side effects eg headaches, dizzy spells, vision problems 	 Training. So Users have the competence to carry out any tasks, reducing unecessary worries / concerns Select equipment and software which is suited to the work requirements Assign tasks according to User capabilities Good design of the User's workplace, environment and task Ensure the room is a comfortable temperature as this causes discomfort which can exacerbate fatigue and lead to stress Change posture
Laptop Users	B Image: Construction of the series of t	 Image: Constraint of the secret of