



Cornell University

CORNELL HEALTHCARE COMPUTER WALL-STATION ERGONOMIC CHECKLIST

ADMINISTRATION INSTRUCTIONS

Background

The use of computers on vertical wall-stations in hospitals and other healthcare settings is becoming more widespread. This checklist gives some guidance on ergonomic issues that are important considerations for a decision maker who is selecting the best computer wall-station for their needs. The checklist is not a list of features, but rather a list of items that affect the ease of use, safety and effectiveness of a wall-station. All dimensions are based on the latest anthropometric data for US adults. The checklist focuses on the ergonomic evaluation of a height adjustable vertical wall-station. It can be used to evaluate a single wall-station or to compare multiple wall-station designs.

Scoring

The checklist has 20 questions and each of the items is answered with a binary response (Yes/No) about whether the wall-station satisfies the item or not.

If an item is not relevant it can be omitted and the scoring can be adjusted accordingly. If all items are relevant then the total number of 'YES' values can be tallied for a total score at the end of the checklist. The maximum score possible is '20' and the higher the score the better the ergonomic design of the computer wall-station.

Any questions or comments on this checklist can be sent to Professor Alan Hedge (ah29@cornell.edu).



CORNELL HEALTHCARE COMPUTER WALL-STATION ERGONOMIC CHECKLIST

This checklist helps you to identify the ergonomic features of a vertical computer wall-station with a separate keyboard/mouse and monitor, for use in a healthcare facility.		YES	NO
1	For standing use, can the keyboard/mouse platform easily be raised to 48" from the floor?		
2	For sitting use, can the keyboard platform easily be lowered to 25" from the floor?		
3	For standing use, can the top of a 17" LCD screen be raised to 71" from the floor?		
4	For sitting use, can the bottom of a 17" LCD screen be lowered to 32" from the floor?		
5	Is there at least a 12" dynamic vertical adjustment range for both the monitor and keyboard starting anywhere along the wall track?		
6	Is there easy and independent adjustment of the monitor and keyboard positions?		
7	Can the caregiver swivel and tilt the computer screen to a comfortable viewing position?		
8	Can the caregiver easily position the keyboard and screen to maintain visual contact with their patient?		
9	Can the design supports up to two monitors and an appropriate range of screen sizes?		
10	Does the monitor arm extend at least 30" from the wall?		
11	Is the monitor stable in all adjustment positions?		
12	Does the keyboard platform extend at least 40" from the wall?		
13	Does the keyboard platform have an adjustable mouse platform?		
14	Is the keyboard/mouse platform stable in all adjustment positions?		
15	Does the keyboard/mouse platform flip up for efficient storage?		
16	Does the design have concealed and integrated cable management?		
17	Does the design accommodate the desired size of CPU?		
18	Can all adjustments be made easily and with minimal effort?		
19	Can the design easily accommodate future technology upgrades?		
20	Are the surface finishes non-porous, smooth and easily cleanable?		
TOTAL SCORE			