

Winner SME recognition award
Employer Thames Valley Air Ambulance
Designer AR Twigg
Title New shelving helps trainers roll with safety changes

“The roller shelving has made such a difference when we are handling and moving manikins.”

BEFORE



Manikin stored on fixed shelving



Restricted area compromising handling posture

- Two workers regularly handled training manikins, weighing between 20kg and 40kg, to and from fixed shelving and placed them on scoops
- The manikins are flexible which means workers had to support and lift them, increasing the manual handling risk
- Pushing the manikins back onto the shelf required additional effort due to frictional resistance, increasing MSD risk
- Manikins had to be handled multiple times a day during training and several different ones are used for different training scenarios
- A manual handling incident triggered a review of the existing risk assessment and highlighted that changes were required

AFTER



Roller shelving and trolley



Pulling manikin onto trolley using hook

- The original shelving was replaced with roller shelving specifically designed to accommodate manikins on scoops. A height-adjustable roller trolley was provided to suit workers' posture
- Using the shelving and trolley with the rollers means it is now a one-person task to pull a manikin from the shelf onto the trolley and push back again
- A hook can be used if required to transfer the manikins from shelf to trolley, which prevents unnecessary stretching
- The manikins can be stored in the shelving on the scoops to eliminate additional manual handling
- The manikins are wheeled, rather than carried on the trolley to the training area, further reducing MSD risk