

Medical Device Training

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Paul T. Lee; ABMU Health Board MDSO Webex; Sept 7th 2016

When I started (1986)

















MDA response to Recommendation 11

If an alarm system fails on monitoring equipment, an untoward incident report should be filed and equipment serviced.

- 'devices should only be set up or operated by users who are competent and confident in their use'
- 'education and training are essential to ensure that users of devices with alarms have appropriate **knowledge and skill** to optimise their use of the device...'
- 'training should be readily available to all those using devices, including those who move into new care areas'

Clothier Report: 1995





- 'patient received a fatal dose because the apparatus had been **incorrectly programmed** by a member of the Anaesthetic Medical Staff'
- 'This individual had in fact been Offered training on this pump but had declined'
- It is clearly the responsibility of the NHS Trust (i.e. the Employer), to ensure that all **Medical Staff** who come into contact with medical devices at the workplace are **fully trained and competent** in their use' The word of a new doctor arriving is insufficient'



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ALMOST 1,400 patients were By Rachel Ellis killed or seriously injured by faulty medical equipment last year - a rise of more than 100 per

cent in just three years. In one case, a patient died after becuming trapped down the side of a

bed rail that was not ficted properly. And in another, a dialresic patient died and several others west into hypo-

some being be bors, murses,

in England will also be invited to se Last room for Susanne Ludgate, Clinical Director at the Milita, said. More

and more medical devices are being used at home for a member of reasons pespie are being discharged from

Products Seeds Products Seeds Persons Register to the Was put in the Arrivan of the Control of t

death, a jury has ruled.

Father-of-three Luigi BeiLuore, 43, from Warwickshire.

agreed to take part in a stem-cell csinical trial

BBCHome BBC News in video and audio **NEWS** Last Updated: Wednesday, 20 December 2006, 15:20 GMT E-mail this to a friend. Printable version World Baby died after injection error Fooland A six-week-old boy died Northern Ireland after air was mistakenly Scotland injected into his bloodstream during a Wates politics routine operation, a Swansea inquest has heard **Politics** Aaron Havard died in April 2002 at the city's Singleton Education Hospital. World | Business | Politica | Tech | Science | Health | Education The inquest in Technology Wales Wates Poincs North Worth Fast Mid South West South East Entertainm

Also in the n

Video and A

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In Picture

Pensioner's care at Wrexham hospital went 'drastically wrong'



Hospital in January 2014 after being admitted with an infected wou



Trained and competent to use?



History

- Scotland (over 20 years ago)
- Wales (approx. 15)
- Some others..... (none)
- Suppliers; Reps and Clinical Trainers (external)
- Embedded trainers (contracted)
- Clinical Engineers, MEMS, EBME, Nurses and HCPs
- NAMDET (370 members: as of Sept 2016)





Statutory Training

- Usually required by law
- Training on the basis of specific legislation
- Employer to ensure their staff have the knowledge to maintain a healthy and safe working environment for themselves and their colleagues

(Health and Safety at Work Act 1974; Management of Health and Safety at Work Regulations 1999)

See: RCN guidelines available at:

https://www.rcn.org.uk/get-help/rcn-advice/training-statutory-and-mandatory



Mandatory Training

- Compulsory training that is determined essential by an organisation for the safe and efficient delivery of services.
- It is designed to reduce organisational risks and comply with local/national policies & government guidelines.



Mandatory training might include:

- blood transfusion processes
- incident reporting
- hand hygiene
- infection prevention
- personal protective equipment
- medicines handling and management
- medical devices



Provision & Use of Work Equipment Regulations requires that equipment provided for use at work is:

- Suitable; safe; maintained; inspected
- Used only by people who have received <u>adequate</u> <u>information</u>, <u>instruction and training</u>

PUWER 1998. http://www.hse.gov.uk/work-equipment-machinery/puwer.htm





 The use of work equipment is also very widely interpreted and means any activity involving work equipment and includes <u>starting</u>, <u>stopping</u>, <u>programming</u>, <u>setting</u>, <u>transporting</u>, <u>repairing</u>, <u>modifying</u>, <u>maintaining</u>, <u>servicing</u> and <u>cleaning</u>

PUWER 1998. http://www.hse.gov.uk/work-equipment-machinery/puwer.htm



HASAWA (Health and Safety at Work Act) 1974. Section 2 (General Duties)

 (c) the provision of such information, instruction, <u>training</u> and supervision as is necessary to ensure, so far as is reasonably practicable, the health and safety at work of his employees;



MHRA Managing Medical Devices Bulletin; April 2015

Section 6: Recommendations for Training

- Policy on training regarding the safe use of medical devices.
- All users supported in attending training.
- Trained in adverse incident reporting.
- Trained in the safe operation of medical devices.
- End users are given appropriate training
- Contractors are adequately trained and appropriately qualified.
- Independent contractors using medical devices have appropriate risk management systems in place.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/421028/Managing_medical_devices - Apr_2015.pdf



Medical Device Trainers

- Job descriptions /scope
- Risk assessments
- Frequency of use vs. competency
- Workbooks
- Competency checklists
- Self assessments

National approval?? Transferable?? Doctors??



National Association of Medical Device Educators and Trainers





our objectives



UK regions and groups 371 members

www.namdet.org

1,888 sessions

12,810 page views

(last 90 days)







Welcome & Thank You

Congratulations and thank you for visiting the Medical Device Driving Licence website now owned and managed by NAMDET. We want to help

you to provide certificated proof of your competence in using medical devices for your Personal Development Plan (PDP) and Continuing Professional Development (CPD). Successful completion of each session will generate a certificate for download to put into your own files and add a category to your own Licence. Certificates will then be stored within the secure database on this website



We have provided a short 8 minute presentation of the background to the Medical device Driving Licence. Just Click on the screen above to view this.

To register for the course please <u>click here</u>.

If you have allready registered <u>please login</u>.

The Process

- User registers with the Medical Device Driving Licence (MDDL)
- Device Driving Ucence (MDDL).

 2. User is then issued a personalised unique login.
- User undertakes the Devices in Practice module followed by a short assessment. If successful this is recorded on their licence.
- Liser underfakes other modules as appropriate, along with their assessments. Successfully completed assessments are recorded on the licence.
- Users can access their MODL records and print a copy for their personal records, and as evidence for their personal development plan (PDP), for their continued professional development (CPD) and to give to a prespective employer.
- Where appropriate certain modules will expire and have to be renewed.
 As the softeme develope employers define appropriate modules to be held by individual employees and applicants.
- An employer will be able to demonstrate that employees have all completed medical device
- training to an appropriate level.

 9. The amployee will have ownership of their MDDL and it will travel with them from Trust to Trust. This will help to save time and costs on unnecessary retraining.

2016; NAMDET took over management and ownership of **MDDL**

- Established new Education Review Panel
- Test and update all eLearning modules and content
- Review national training needs and add new modules





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Basic observations

This educational package has been produced as a helpful background and reminder on basic patient observations in the clinical workplace. The package covers:

- taking a pulse
- checking blood pressure
- · measuring respiratory rate
- · taking a temperature
- the Glasgow Coma Scale
- · basic ECG monitoring
- · urine output
- drain losses
- record keeping
- · 'track and trigger' systems

The module is intended to be a reminder of best practice and will provide users with a better understanding of why procedures need to be followed, the value of record keeping and the possible pitfalls with cutting corners.

The module is aimed at all medical, nursing and allied healthcare professionals working in a healthcare setting. It is also for all community care workers in nursing and private healthcare settings and all FV1 and FV2 doctors and as a helpful reminder to more experienced doctors.

The module runs for approximately 45 minutes. You may require more time to re-read and review specific areas and to undertake the attached questions.

Start the basic observations e-learning module







We have developed a number of modules that provide training to support the driving licence assessments. These modules are available to use for free on our website and cover topics related to our work and where we know there are reported incidents.

Click below to access the available modules

Devices In Practice

Basic Observations

Defibrillators

Electrosurgery

Anaesthetic Machines

The Operating Table



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Training starts at Procurement

Specification

- Human usability
- Who will use it and what are their needs
- Why is the device required
- Training programme built into the specification

The selection

- Criteria assess training requirements
- Criteria assess training offered

MEC 2014 john.amoore@aapct.scot.nhs.uk











NAMDET 2016

Holiday Inn: Birmingham 3rd November 2016

'Quality Training: Quality Care'

www.namdet.org #namdet2016