

Considerations Of Community Defibrillators

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Lytchett Matravers Parish Council



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- Equipment: Defib and Cabinets – Power requirements, lifespan of equipment.
- Costs and Funding
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- **Questions so far?**
- Security for cabinets
- Location considerations (incl Phone Boxes)
- Agreements with Third Party hosts.
- Considerations when equipment is used.
- Confidentiality.
- Monitoring requirements.
- **Questions so far?**
- Publicity. “Know where your nearest defib is”
- Training
- **Questions?**

Introduction

Andrew Huggins, Vice Chair of Lytchett Matravers Parish Council.

- I am not an expert in any of the areas, but I am sharing the knowledge I gained in implementing our Defibs, when it became apparent that there was no general guideline for PCs.
- I am not a trained medic
- I am not affiliated to any of the companies I will mention during this presentation.
- Views are mine and not necessarily those of my Parish Council.

In gathering the knowledge to deploy our defibs I spoke to defib vendor (AEDWarehouse.co.uk), Zoll, St John's Ambulance, British Heart Foundation, SW Ambulance Service, Ouch Training.

Lytchett Matravers has

- 4 Public Access Defibs
 - Pub
 - Housing Association
 - Tesco
 - Phone Box
- Run a Publicity Campaign "Know your nearest Defib"
- Provided free training to 65 people
- It has taken 3 ½ years from start to completion.

Why Have Defibs?

For every minute that someone's in cardiac arrest without receiving CPR and having a defibrillator used on them, their chance of survival decreases by 10%.

Anyone can use them – THE OPERATOR DOES NOT REQUIRE TRAINING

They provide audible instructions

They will not deliver shock if not safe to do so.

Can be used on adults and children.

You are using it on someone who is dead – you cannot make the situation worse!



Equipment

AED/Defib:

- There are various defibs on the market such as Zoll, IPAD. All very similar function.
- Requirements:
 - Self-contained, user-replaceable long life battery. Typically lasts 5-7 years. Replacement battery approx. £150.
 - No external power needed.
 - Wifi for optional monitoring. (with hindsight I would NOT pay extra for this – see later in “Monitoring”)

Cabinet:

- to protect from the elements
- Heater to prevent the defib getting too cold which would shorten the battery life.
- Fan to prevent getting too hot which would shorten the battery life.
- Security lock (electronic or mechanical)
- Requirements
 - Mains Power (with transformer)
 - Solar option available (£2.5K+)

Costs and Funding

Indicative Costs:

- Defibs are around £800-£1200 each
 - Eg Zoll, iPad, Cardiac Science
- Cabinets £350-£600
 - Recommend mechanical lock, not electronic

Funding:

- National Lottery (£7000)
- Donation Pots / Crowdfunding (£400)



- 999 Service. “The Circuit”. Mapping options.

- When someone calls 999 you want the emergency services to be able to provide the location.
- Previously you had to register defibs with your regional ambulance service.
- “The Circuit” was set up as a central, national register, used by the Ambulance Services and 999 operators. It is being rolled out across the country but is active in the South West and all 999 operators.
- A registration on “The Circuit” includes the location and model of the defib, and the access code for the cabinet it is in.
- “The Circuit” is a very simple website with a single logon to access the defibs you manage.
 - You get emails when checks are due.
 - You get emails when a defib has been deployed.
- Various websites exist which map defib locations. You are welcome to register to as many of these as you wish, but they are not used by Ambulance service. I have not registered any of the Lytchett Matravers ones.
- Disappointingly, whilst Google Maps have “icons” for many Points of Interest including a variety of medical ones, there is none yet for Defibs. (although you could use something similar).



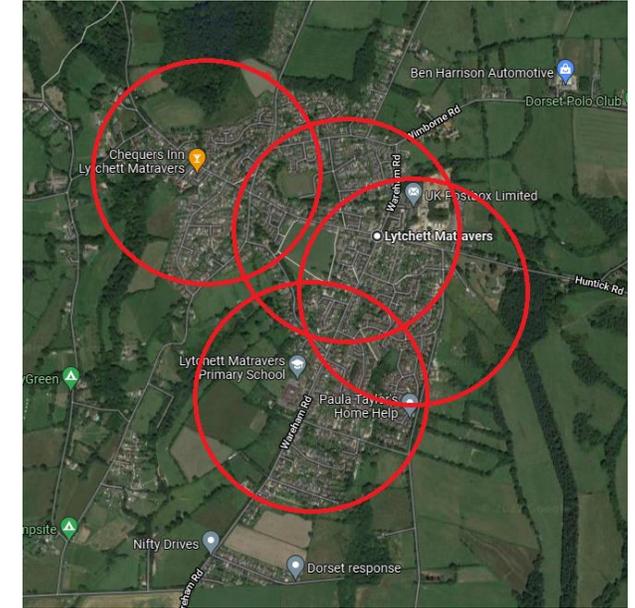
Security for Cabinets

Necessary Evil

- Ideally the defibs would be available to access without the delay of accessing a code to open the cabinet, but they are too valuable to be left unsecured.
- Recommendation from Ambulance service is that if you must use a code, make it easy for someone to manage in a panic situation eg 9999 or 4321. Bear in mind that codes such as 0000 might have “system uses” for the cabinet.
- Cabinets with electronic locks require power to open them – if there is a power issue it might render the defib inaccessible: Mechanical locks are “safer”.

Location of Cabinets

- Power requirements – this is your main constraint.
- Former phone box – buy from BT for £1. BT will commit to provide the power for minimum of 7 years.
 - Heritage “Red” phone boxes, but also decommissioned newer phone boxes.
- Public buildings:
 - Pub wall?
 - Shop Wall?
 - Village hall?
- Ideally 200m “activation” radius to cover large proportion of your population.
- (500m for “South-central region”).

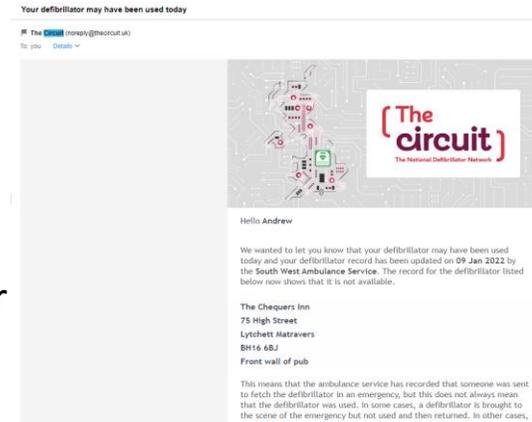


Agreements with Third-Party Hosts

- Protect you and them, form ambiguity it situation arises.
- Ensures equipment can be reinstated without delay if compromised in some way.
- Sets out
 - what you will provide (equipment)
 - what they will provide (typically Location, power)
 - Who insures the equipment
 - Who is liable if damaged
 - Termination agreement – Notice period
 - Contacts
 - Confidentiality of patients.

Considerations When Used

- When 999 direct a caller to a defib, it is assumed that the defib will be deployed and, on the Circuit, the defib will be flagged as “offline until checked”, whether or not it is used. Whoever registered the Defib with the Circuit will receive an email alert.
- The Ambulance service will probably take Defib to Hospital to download data.
- Label the Defib with the owner and a contact number to assist in repatriation from hospital.
- After use, it should be checked for cleanliness (wipe over). Check supplies such as pads, accessories pack such as razor, wipes and replace as necessary (accessory packs available for about £15 from Defib suppliers). Replacement Pads £50-150.
- Try to get reinstated ASAP – update status on “The Circuit”.



Confidentiality

- After use it would be tactless to embark in publicity about the patient either by the council or the host of the defib.
- The person who used the defib may be in shock/upset. Especially if the outcome was undesirable. Their GP can provide support.



Monitoring Requirements

- It is a requirement that Defibs are checked periodically to ensure they are OK and ready for service.
- The Circuit will email you when checks are due. (Monthly)
- Automated checking is possible, but
 - it needs WiFi (can be achieved by MiFi)
 - It is a periodic (weekly check), not “real time”
 - It doesn't tell you if the cabinet has been damaged.
 - Zoll Defib Monitoring (Plustrac) free for 12 months and then £250 for 10 years. Cheap over time, but little value.
- Manual Checking takes <5 minutes/month.
- Ideally get checks done by the community
- Keep a record of when checks done (eg email to parish clerk).

Publicity

- Goal: Everyone in community should know where the defibs are
- “Parent mail” to local school.
- Parish Magazine Article – Map on Front Cover
- Banners (£20 for 2m x 1m) – moved each week. Vinylbannersprinting.co.uk
- Postcards to households (£115 for 2500 colour postcards) getprint.co.uk

WHERE'S MY NEAREST DEFIBRILLATOR?

PLEASE KEEP THIS CARD

If someone has a cardiac arrest, every second counts

ALWAYS DIAL 999

Know where your nearest Defibrillator is (see map overleaf)

LYTCHETT MATRAVERS DEFIBRILLATOR LOCATIONS:

- Chequers Inn, High Street
- Tesco, High Street
- Abbots Court, Huntick Estate
- Phone box opposite school, Wareham Road

No training is required (The unit provides voice-prompts for use)

More info at: www.lytchettmatraverspc.org.uk/defib

Lytchett Matravers Parish Council (www.lytchettmatraverspc.org.uk/defib)

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Training

- No training is needed, to use a defib, but many people feel they would like training
- Training may be a requirement of any grant donors.
- Ambulance service/Red Cross/St Johns Ambulance do not offer training for free.
- Ouch Training provided FREE, 3 x 1 hour sessions with up to 30 people per session in our village hall on a Saturday Morning (Parish council paid for the hire of the hall)
- Training was on CPR, Defibs, Choking.
- We trained about 65 people.
- Online Bookings using Eventbrite.co.uk (free)
- **Ouch are prepared to provide the same sort of training FOR FREE to other parishes/councils.**

The logo for 'ouch' is displayed in a stylized, lowercase font. The letters 'o', 'u', and 'h' are black, while the 'c' is a bright blue color.

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More Info

- Resuscitation council has some good information:

<https://www.resus.org.uk/library/additional-guidance/guidance-defibrillators>

- Any questions, you can contact me AWAHuggins@aol.com