

Sparsholt Defibrillator Project – Background Information

- 1) Electrical defibrillation is well established as the only effective therapy for cardiac arrest caused by ventricular fibrillation or pulseless ventricular tachycardia.
- 2) The scientific evidence to support early defibrillation is overwhelming. The delay from collapse to delivery of the first shock is the single most important determinant of survival.
- 3) Survival rate from the prompt use of Automated External Defibrillator (AED) is as high as 75%, but declines by 10% for each minute of delay.
- 4) South Central Ambulance Service – Response times:
 - Initial - 8 minutes with SLA target of 75%, achieved 77.37%
 - Ambulance – 19 minutes with SLA target of 95%, achieved 95.3%
- 5) An average journey time to collect and return with the AED within the village will be a minimum of 10 minutes. Also, a further 2 minutes for a 999 Call to request assistance and obtain the key code for the AED box. Total at least 12 minutes from start of incident and, allowing for human frailty, probably 15 minutes before the AED arrives.
- 6) Immediate Basic Life Support (BLS) i.e. Open Airway and CPR (30:2) will help to maintain a shockable rhythm until AED or Ambulance Service arrives
- 7) When using AED need to minimise interruptions to chest compression. Important to maintain CPR unless victim shows signs of regaining consciousness, i.e. coughing, opening eyes speaking, AND starts to breathe normally.

SW – 22/10/2014

Sources – South Central Ambulance Service and National Resuscitation Council,

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	Questions	Responses
1 Acquisition	Cost Funding Ownership Insurance	c.£1500 if VAT reclaimed bt PC c. £1800 raised and available SPC and/or School SPC and/or School
2 Location	Center of Village Property owner's agreement Installation Security Parking Mobile Phone signal Light	Memorial Hall Required from Memorial Hall cmtte Simple, will require electrical supply OK OK OK Security light would be helpful
3 Routine Maintenance	Training How often What actions Who by Battery replacment Other consumables Cost(s)	Very simple Weekly or Monthly Check light, if fault contact supplier Nominated person (s) After 4 - 5 years, current cost £120 Chest pads, 3 year life Tbcfd, understand c £50
4 After use Maintenance	Training What actions Who by Battery replacment Other consumables Cost(s)	Very simple Replace pads Nominated person(s) Not necessary, will last 200 cycles None c £50
5 Annual Service	Who Cost(s)	Not required Annual cost of elecricity £25
6 Other Items	Life of machine & replacment cost Training for responders/residents	c10 years c £1000 Available, £100 up to 12 people