



**GIG**  
CYMRU  
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WALES

Addysg a Gwella Iechyd  
Cymru (AaGIC)  
Health Education and  
Improvement Wales (HEIW)

## **DENTAL POSTGRADUATE SECTION**

### **IN-PRACTICE TRAINING**

**Cardiopulmonary Resuscitation  
Automated External Defibrillation and the  
recognition and management of common medical  
emergencies**

**SUPPORTING INFORMATION  
FOR PRACTICAL SESSION**

# **CONTENTS**

<b><u>SECTION</u></b>	<b><u>PAGE NO</u></b>
<b>CONTACT DETAILS</b>	<b>3</b>
<b>AIMS &amp; OUTCOMES</b>	<b>4</b>
<b>TRAINING PROGRAMME</b>	<b>5</b>
<b>DRUGS</b>	<b>6</b>
<b>EQUIPMENT</b>	<b>7</b>
<b>MEDICAL EMERGENCY FLOWCHARTS</b>	
• <b>SEE SEPARATE DOCUMENT</b>	

## CONTACT DETAILS

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# AIMS AND OUTCOMES

## Aim

- To provide training in adult and paediatric basic life support, for the whole dental team, as specified by the most recent Resuscitation Council (UK) Standards.

## Learning Outcomes

By the end of the training session the participants should be able to:

- ◆ Demonstrate the primary survey of a collapsed patient using the DRABCDE approach, while ensuring safety of staff and patients
- ◆ Demonstrate effective Cardio-Pulmonary Resuscitation and safe use of an Automated External Defibrillator
- ◆ Explain the use of basic airway adjuncts, supplemental oxygen
- ◆ Be aware of the use of pocket mask and self-inflating mask
- ◆ Be aware of the management of anaphylaxis

## Verifiable CPD & Development Outcome

This activity has been quality assured and meets the GDC's educational criteria for 1 hours of verifiable CPD

This activity maps to GDC Development outcome A and C

# **IN PRACTICE TRAINING PROGRAMME – CONTENT**

**The GDC recommends that you do at least 2 hours of this training every year  
and 10 hours in your 5 year CPD cycle**

- **Adult Basic Life Support including Paediatric modifications**

- Current Adult Resuscitation Council Standards
- Considerations when undertaking resuscitation in a dental chair
- Recovery position
- Use of bag valve mask (two person) – optional
- Oxygen therapy
- Use of suction, including portable suction
- Use of oro-pharyngeal airways
- Use of pocket masks (with O<sub>2</sub> therapy)
- Use of Automated External Defibrillator
- Practice skills on manikin
- Team scenario practice
- Awareness of:
  - the drugs used in emergencies
  - the recognition and treatment of Anaphylaxis
  - cardiac arrest in pregnancy
  - use of a Pulse Oximeter

- **Review of Adult and Paediatric Basic Life Support**

- Review of previous sessions
- Changes in guidelines since last session
- Practice Skills on manikin
- Team scenario practice in various areas of the dental practice

- **\*\* Management of common Medical Emergencies\*\***

- Signs and symptoms
- Scenarios
- Drugs – selection and administration

**\*\* Please note this will be discussed briefly – a more detailed training session is available in Postgraduate Centres around Wales entitled 'The clinical management of medical emergencies including the administration of medication' \*\***

# DRUGS

## TO BE HELD AT DENTAL PRACTICES FOR MEDICAL EMERGENCIES

### DRUGS

- Adrenaline, 1-ml ampoules or prefilled syringes for intramuscular (i.m.) injection\*
- Aspirin, 300 mg dispersible tablets
- Glucagon, for i.m. injection of 1 mg
- Glyceryl trinitrate (GTN) spray, 400 micrograms per metered dose
- Midazolam oromucosal solution, 10 mg/ml, for topical buccal administration~
- Oral glucose (there are several alternative forms, including non-diet fizzy drinks, glucose gel, powdered glucose, glucose tablets)
- Oxygen cylinder, two size D or two size CD
- Salbutamol inhaler, 100 micrograms per actuation

\* *ADRENALINE* Note that pre-filled syringes are convenient in an emergency situation due to their ease of use but auto-injectors provided for patient use (e.g. EpiPen® etc.) may contain less adrenaline than recommended for the management of medical emergencies and for some patients the needle may be too short for i.m. administration.

Practices are advised that the decision to hold Adrenaline in ampoules and / or auto-injectors is one that they must make on a professional basis however they should ensure there is sufficient dosage available.

Further guidance on the use of adrenaline is available here:

<https://www.resus.org.uk/anaphylaxis/emergency-treatment-of-anaphylactic-reactions/>

~ Midazolam oromucosal solution is available as pre-filled oral syringes; several sizes are available to allow for exact dosing for different age groups. Midazolam oromucosal solution is not licensed for use in children <3 months or in adults >18 years.

This list is recommended by the Scottish Dental Clinical Effectiveness Programme guidance document 'Drug Prescribing for Dentistry'

<http://www.sdcep.org.uk/wp-content/uploads/2016/03/SDCEP-Drug-Prescribing-for-Dentistry-3rd-edition.pdf>

Additional drugs may be held at the Dental Practice if suitably trained staff are available to use them.

<https://www.resus.org.uk/quality-standards/primary-dental-care-quality-standards-for-cpr/>

BNF Guidance on emergency drugs in dental practice

<https://bnf.nice.org.uk/guidance/prescribing-in-dental-practice.html>

# EQUIPMENT

## EQUIPMENT

**\*\*Regularly check items are within expiry date and packaging intact\*\***

- Oxygen Supply with a flow rate of 10-15 litres/min
- (CD-size Oxygen Cylinder – x 2 for rural areas; urban areas should consider having a spare cylinder)
- Adult and Paediatric non re-breathing oxygen masks with reservoir
- Single Patient use self inflating bag-valve mask, adult size 3, 4, 5; child size 1, 2
- Oropharyngeal airways sizes 0, 1, 2, 3 and 4
- Portable Suction
- Pocket mask with one way valve and O2 inlet
- Volumatic Spacer device for inhalers
- AED and required consumables (i.e. pads, scissors, razors x2, dry cloth)
- 1ml syringe and appropriate needle for administration of emergency drugs
- Pulse Oximeter (optional)

<https://www.resus.org.uk/quality-standards/primary-dental-care-equipment-list/>