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CD-ROM REVIEW

Brett Williams

Lecturer

Monash University Centre for Ambulance and Paramedic Studies

“eACLS”

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This CD Rom is an interactive case-based program developed earlier in the year by the American College of Emergency Physicians and the National Safety Council. It has two tracks of care: Hospital and Prehospital. Both of which comprise of ten individual cases:

Acute Coronary Syndrome
Automatic External Defibrillation
Asystole
Bradycardia
Narrow Complex Tachycardia
Pulseless Electrical Activity
Respiratory Arrest
Stroke
Ventricular Fibrillation
Wide Complex Tachycardia

This is an innovative attempt at delivering an educational paradigm such as case-based learning into the virtual e-learning environment. It has tremendous potential. The CD is easy to navigate and has clear and succinct voice over instructions that ‘walk’ you through the main features and keys required during your learning.

Each scenario has learning objectives that in most cases are adequate and prepare the learner for their journey. Each case has five sections that must be completed sequentially:

Your Patient
Assessment
Treatment
Interactivities
Simulations

The first three sections provide refresher information relative to a patient with a particular medical problem (e.g. AMI). The fourth part, "Interactivities" tests the general understanding of the refresher content. This section includes electrocardiograms (ECG's), clinical manifestations and specific pharmacological multiple-choice questions. Importantly, feedback is provided when an error in this section occurs, this provides the user with a clear indication where they went wrong. The final section "Simulations" tests the ability to apply knowledge of this topic to a patient experiencing a similar emergency. The section incorporates both video and photographs in a case-based series in 'real-life' and 'real-time' which allows the user to develop a more realistic approach. Again, this section will allow individuals to make mistakes and provide enough information to finally obtain the correct assessment or treatment. The history component is very useful in this section as it allows maintenance of a running log of previous actions.

As an educator, the biggest positive from the simulation section was the repetitive need for users to be sequential in primary approaches and in Advanced Life Support (ALS) management. For example, cases could only be continued or completed when the ABC's and other priorities had been addressed.

The resources section has more than enough information to successfully complete all ten cases. In other words, users do not require any other texts or aids to complete this program. They include sixteen different ECG's, Electrical Therapy and seventeen Advanced Cardiac Life Support (ACLS) medications.

The opportunity also exists to complete the final test after all ten cases have been accomplished. This is secured and must achieve a minimum score of 84% to pass the course and attain your course completion card.

Whilst the program is American-based it provides a different approach to procedures and ACLS medications than in Australia. It reinforces the importance of developing a broad research scope to become familiar with International Standards. For example, it is motivating to use procainamide or vasopressin in the simulation despite not using it in local clinical protocols or guidelines. It is also satisfying to see certain doses, such as aspirin have been altered following large studies such as ISIS, ISIS and GUSTO.

So, what areas could be improved?

Perhaps the ECG grid paper could be clearer. I imagine for the novice it would be potentially difficult to interpret certain rhythms because of a lack of clarity. Eight of the ten cases were cardiac-orientated, perhaps a greater variety of cases could have been utilised. Possibly further medical, trauma or paediatric cases could be developed. Some statements are not adequately referenced, such as "LMA's and Combitubes are almost as effective as Endotracheal Tubes".

Who is best suited for this program? I think any educator who is teaching under a case-based or problem-based format would find this an important

teaching adjunct. It provides 'real-life' simulations that reinforce the importance of primary care approaches and sequential ALS clinical problem solving skills. Students that would be most suited to this program would range between post six months training (pre & post employment paramedics) up to pre-Intensive Care Paramedics.

I believe there is also scope for qualified Intensive Care Paramedics to use this program as a refresher tool. Ambulance organisations could also use the program as part of their 'in-service' training schedule or to maintain quality assurance amongst their staff.

To successfully run this program you will require the following minimum system requirements:

Windows (98/2000/NT/XP)	Macintosh
400MHz processor or faster	68030 ('040 or PowerMac running at 120 MHz or more recommended)
128 MB RAM (256 MB RAM of higher recommended)	32 MB RAM (64 MB RAM or higher recommended)
CD Rom drive	640 x 480 screen resolution or higher, hi-colour mode
200 MB free hard drive	2 x CD Rom drive (4 x speed or higher recommended)
	120 MB of available hard drive space