

Montbard

CPR – D
for the general public



**Short First Aid education
course
Including AED**



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Aims

- Acquiring first aid techniques by the general public
- Training the general public on automated external defibrillator (AED)
- Distance assessment (10 months) of the competences of the participants
- Facilitation of the Public Access in France



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Partners



**CROIX-ROUGE
FRANÇAISE**



**CONSEIL FRANÇAIS
DE
REANIMATION**



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When ?

- 2 training days in 2004 :
 - 18 and 19 November,
- 2 training days in 2005 :
 - 13 and 14 October,



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Who ?

- **1 500 participants :**
 - Students of High Schools
 - Civil servants (police, municipal employees)
 - Members of sport-clubs
 - Personnel of the Montbard hospital
 - General public (students families, visitors...).



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Where ?

- In the town of Montbard

- CARTE ++



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CPR – D Aims

- To recognize a cardiac arrest,
- To alert the EMS,
- To use, safely and as precociously as possible a fully automatic or a semiautomatic defibrillator.
- To follow the AED voice prompts and particularly to achieve a cardio-pulmonary resuscitation



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The material

- Lifepak CR Plus - Medtronic



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Assessment



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Assessment during the first training Nov. 2004

- **Participants have been assessed on their FA and AED knowledge before the beginning of the training.**
- **The individual assessment took place in the first half-hour with the same case study for each participant**
- **A group of instructors has been dedicated for this assessment in order to make it homogeneous. As far as possible those instructors will be mobilized for the second assessment.**



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Assessment during the second training Oct. 2005

- **Participants will be assessed on their FA and AED knowledge before the beginning of the second training.**
- **The individual assessment will take place in the first half-hour with the same case study for each participant used in 2004**



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The survey

- A comparative survey will be done between the performances of the participants before the first training and after 10 months.
- Assessed topics :
 - Respect of the procedure,
 - Quality of the Cardio-Pulmonary Resuscitation,
 - Capability to use an AED.



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Preliminary Results



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Assessment

- **1 186 Participants assessed :**
 - **531 students FA trained before : 44%**
 - **655 students no FA trained : 56 %**



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Reaction of the participants

- **FA trained :**
 - Victim «first »
- **No FA trained :**
 - AED « first »



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First Aid done by the FA trained participants

- **Airway very rarely done**
- **Cardiac Massage practiced more often than ventilation**
- **Alert often done**



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AED +

- **Easy use : « Game Boy » generation**
- **Fully automatic :**
 - **“no necessity to push a button**
 - **Expect to save time for the 1st choc**
 - **Decrease the duty feeling**



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Training impact



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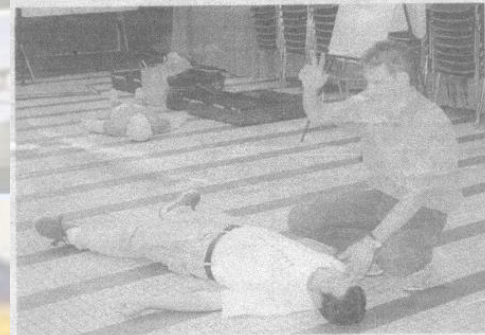
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- **Since 1998 :**
 - AED training for Firemen
 - Training of students of high schools of Montbard
 - Training of Healthcare provider in the hospital
 - Training workers in factories
 - Collaboration with the Red Cross since 2000 for the general public



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**URGENCE CARDIAQUE :
la chaîne des secours est
prête à intervenir. Et vous ?**



Le week-end dernier, le club Cœur et Santé de Montbard, associé à l'association de Cardiologie de Bourgogne a organisé une campagne de sensibilisation à l'urgence cardiaque en Bourgogne Centrale.

Cela a commencé vendredi soir avec une conférence donnée par le Docteur Karim Boudenia, urgentiste à Montbard, le Docteur Yves Laurent, cardiologue en soins intensifs, et le Docteur Marie Delescaut, réadaptation cardiaque à Montbard. Après avoir brossé un tableau de l'urgence cardiaque ils ont répondu à toutes les questions d'une salle fort intéressée.

Parallèlement, toute la journée, quelques 100 personnes, des

usines de Montbard le matin, et personnels soignants des hôpitaux de Châtillon et Montbard l'après midi) se sont initiées aux gestes qui sauvent.

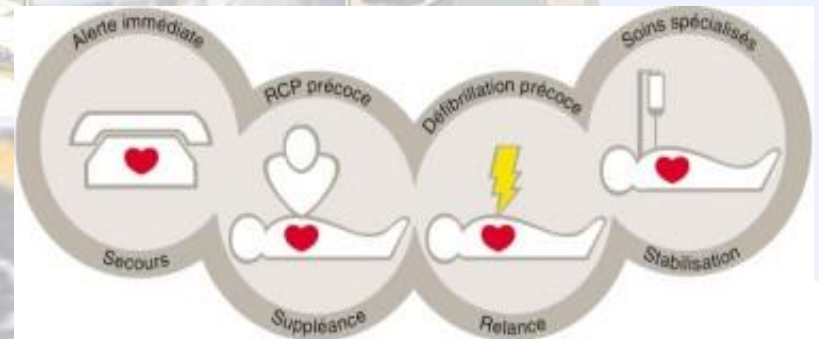
Le lendemain, encore une trentaine de personnes se sont inscrites à ce cours pas comme les autres où l'on apprend à venir en aide à celui qui en a un besoin plus qu'urgent. "La rapidité d'intervention est primordiale" dira le Docteur Boudenia, "la vie dépend parfois de quelques minutes. Trop tard et il n'y a plus rien à faire".

L'objectif de ces journées, est de former à terme 20 % de la population française à ces gestes qui sauvent. Les Montbardois, en tout cas, ont répondu présents.

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- **Results end 2003:**

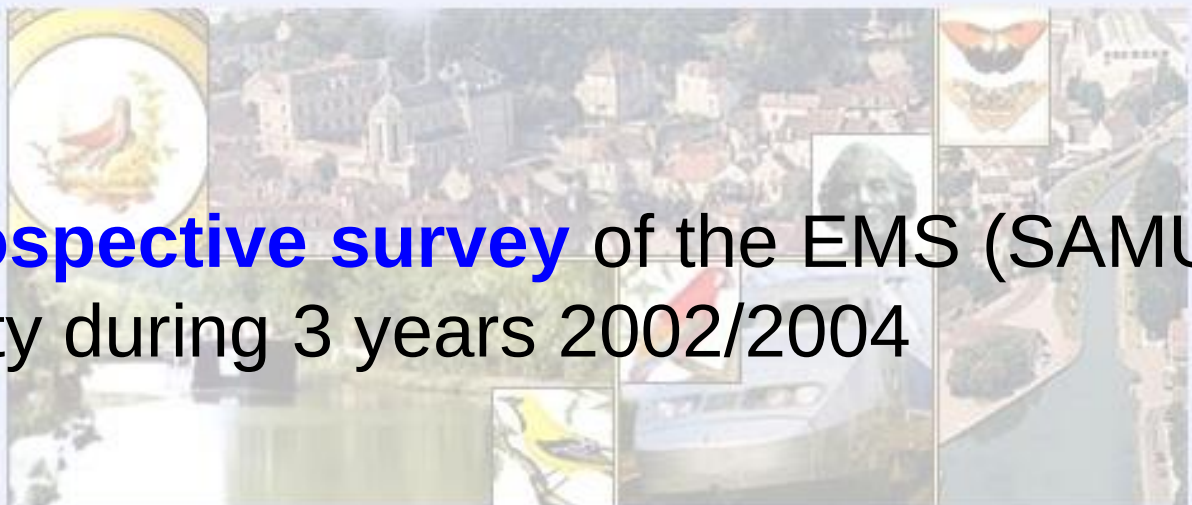
- 30 % trained population
- Training focused on alert and BLS
- STATE : 2 hours per year during 4 years is better than 1 training of 8 hours one time during the life



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- **Retrospective survey** of the EMS (SAMU) activity during 3 years 2002/2004



- **44 interventions** for cardiac arrest with resuscitation attempt



- **7 survivals** (out of hospital discharge)



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- **Results / Analysis**

- 16 % of survival among the resuscitation attempts
- All survivors benefited of a CPR by a first witness (effect of 6 years of BLS training = 30% of training population!)
- All survivors received a choc before 6 minutes after the ACR



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- **Results / Analysis**

- All survivors was in the town of Montbard
- Time of EMS arrival was still to long outside the town of Montbard



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Conclusions

- Training more of 30% of the general population in one town improves the quality of the Emergency Medical System and the chance of survival
- A short training course including AED is possible for the general public
- Use AED is accessible to all: children ++
- Use of an AED fully automatic could reduce the time for the first choc
- These results will be completed in October 13th and 14th with the assessment of the memorization of the participants



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First Aid by the general public

AED Closeness

= EFFICIENCY



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Montbard in the future... ?



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Centre européen de référence pour l'éducation aux premiers secours
European Reference Centre for First Aid Education



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