Outcomes of out-of-hospital cardiac arrest in KOREA

Backgrounds 3-1

Out-of-hospital Utstein style Circulation 1991;84(2):960-975.

Outcomes
ROSC

In Osaka 35.9%

Resuscitation 2002;53:121-125.

In KOREA 55.0% (2002), 42.3% (1999)
2002;13:428-433.
1999;10:370-378.

Backgrounds 3-2

Survival discharge
By casino security 53%

NEJM 2000;343:1206-1209.

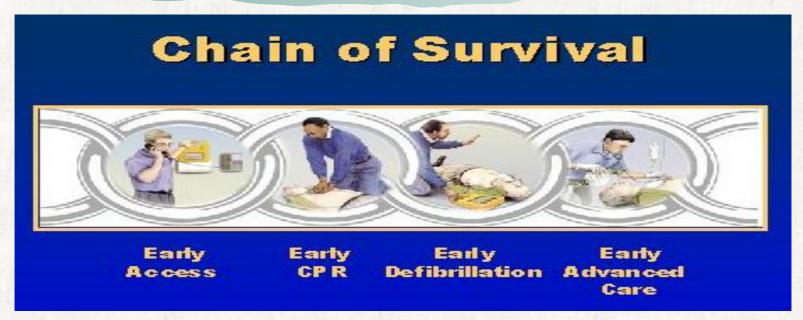
By AED in flight 40%

NEJM 2000;343:1210-1206.

In KOREA 20%

2002;13:428-433.

Backgrounds 3-3



Early EMT(ACLS) Dispatch

BLS to Lay person

Early resuscitation

AED, AED to Lay person

Prehospital CPR in KOREA



"119"

Redcross



Emerg.center



Methods

KRCPR

(Korean registry of CPR:out-of-hospital)

- Duration: 2004.10.1.- 2005.2.28
- Hospital: 28
- Protocol: Out-of-hospital Utstein style
- Case: 329

RESULTS 1-General

- M:F = 2.5 : 1(234 : 95)
- Mean AGE 55.3

(min. 1 mo / max. 92 yr)

RESULTS 2-collapse

Location

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home 181 > public 39 > street 36 > other 33 > office 22
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Witness

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family 185 > bystander 79 >non 28>EMT 15
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Witness CPR 80 (26.5%)

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other 36 > first responder 22 > family 12 > bystander 10
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RESULTS 3-early access

- EMSS activate 288 (88.6%)
- Transport
 119 285 > private 16 > ambulance 9
- collapse to early access 4.3 min
- collapse to EMT
 6.5 min
- collapse to ER
 33.5 min

RESULTS 4-119

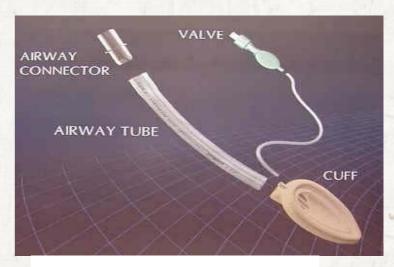
• CPR 177 (60.6%)

Intubation 19

AED shock 13

IV access 3

Drug 1





RESULTS 5-cause/rhythm

 Cause cardiac 176 > non cardiac 111 > trauma 35

Initial rhythmasystole 211 > PEA 88 > VT/VF 35

RESULTS 6-outcome

• ROSC 46.1 % No ROSC 164 24 hr death 61 In-hospital death 32 Hopeless discharge 6 Survival discharge 14 Admission 27

Conclusion I

BROKEN Chain of Survival 329 271 80 13 Early Early Early Early CPR Defibrillation Advanced Care 33.5

Conclusion II

- 1. BLS education for Bystander CPR
- 2. AED by out-of-hospital EMSS
 - 3. CPR by out-of-hospital EMSS