

KOHTI PAREMPIA HOITOTULOKSIA



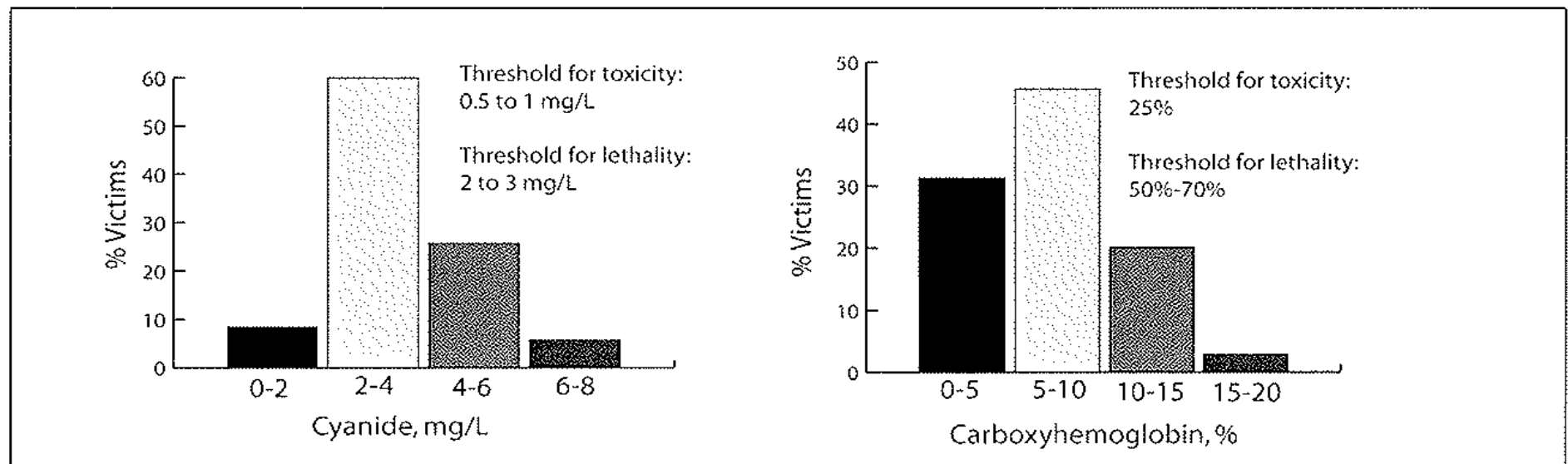
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Cyanide poisonings and smoke inhalation

Every life counts

Cyanide poisoning is an important cause of incapacitation and death in smoke inhalation victims



Eckstein © 2006 Prehospital and Disaster Medicine

Figure 1—Percentage of smoke-inhalation victims with specific levels of cyanide and carboxyhemoglobin in blood²³

Cyanide poisoning is an important cause of incapacitation and death in smoke inhalation victims

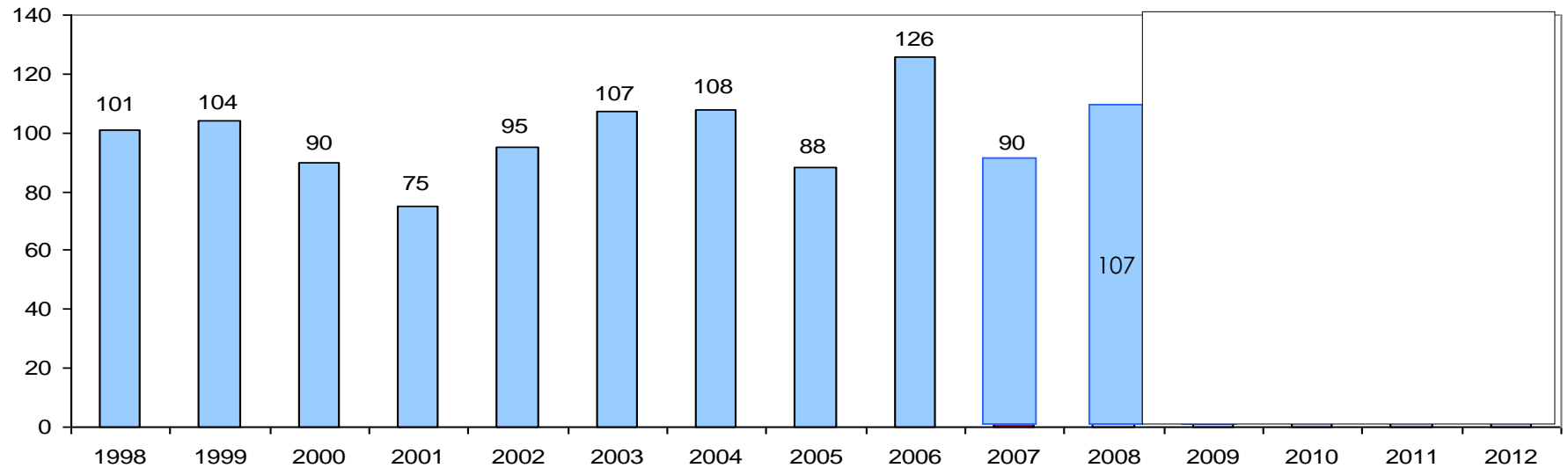
AWARENESS

- A civilian fire death occurs every 143 minutes in the US. But fire deaths due to toxic gases or oxygen deprivation from smoke inhalation outnumber fire deaths that result from burns. Awareness of smoke inhalation is critical on the fire ground. (2005 National Fire Protection Agency Report)

DIAGNOSIS & LIFE SAVING TREATMENT

- Cyanide poisoning can be treated effectively if it is recognized promptly and if intervention is initiated immediately. It is important that pre hospital providers recognize signs and symptoms of cyanide poisoning and have smoke inhalation evaluation and treatment protocols in place.

High Unmet Medical Need



Fire deaths in Finland 1998-2008

Key observations before launch of Cyanokit 2008

- **Cyanokit was in all hospital pharmacies, but mainly stocking business**
- Cyanokit was in doctor ambulance only in Helsinki and Turku (2 ambulances and 2 helicopters)
 - most use came from there (15-20 times per year),
- Basic knowledge of cyanide poisoning was on poor level by doctors and rescue / fire departments

Cyanokit - Closer to patient



Results

- Cyanokit is taken in all treatment level units (ambulances and helicopters) in all 5 UH districts; 14 units
- Cyanokit is taken in 20 treatment level ambulances in TOP 15 CH
- **Cyanokit is used for patient treatment much more often!**
- **18 packs / million inhabitants, (France 22 packs/ million)**

Three Deaths in Tampere Fire

published 2010-11-22 06:14 AM, updated 2010-11-22 07:13 PM



Image: YLE / Hanna Juopperi

Three bodies have been found in a block of flats that caught fire in Tampere city centre early Monday. Four people have been hospitalised suffering from smoke inhalation, three women and one man.

The victims were found in stairwells of the building, located on the corner of Hämeenkatu and Aleksanterinkatu streets. Rescue officials have made a preliminary check of all flats in the building.

Five people were taken to hospital, one of which was later released. One of the injured, an elderly woman, was still in intensive care on Monday evening.

The police received an automatic emergency alert just before 5.30 on Monday morning, after an explosion was heard. Officials have determined that the blaze began in a ground-floor nightclub, filling the building with thick smoke. Shards of glass were scattered widely around the area. The club had closed at 4 am.

Fire services brought the blaze under control during the day. About 20 rescue units were sent to the scene.

Rescue workers evacuated 41 people from the building.

Those seeking information about relatives in the building may call 050 399 8221.

YLE

Starting the Cyanokit immediately saved elderly woman's life



Need for medication after fire in Tampere

Swedish Orphan AB
Marketing Cube
(id:559545)
Period: 20080101 - 20101231

Source: 975176017_TU_MA_MK_V2
Updated: 1. tammikuuta 2011 6:16:33

[2010/Nov][Tays Sairaala-apteekki][CYANOKIT 2,5 G INF.KUIVA-AINE 2x 2,5 G][Transaction][Owner][Warehouse][Month][Pur. chain][Main group][Sub group][Department][Hc district][VAT]Measures:

Qty as values		2010/11/22	2010/No v
0120707;0120707	418004	4	4
	Tays Sairaala-apteekki	4	4
CYANOKIT 2,5 G INF.KUIVA-AINE 2x 2,5 G		4	4

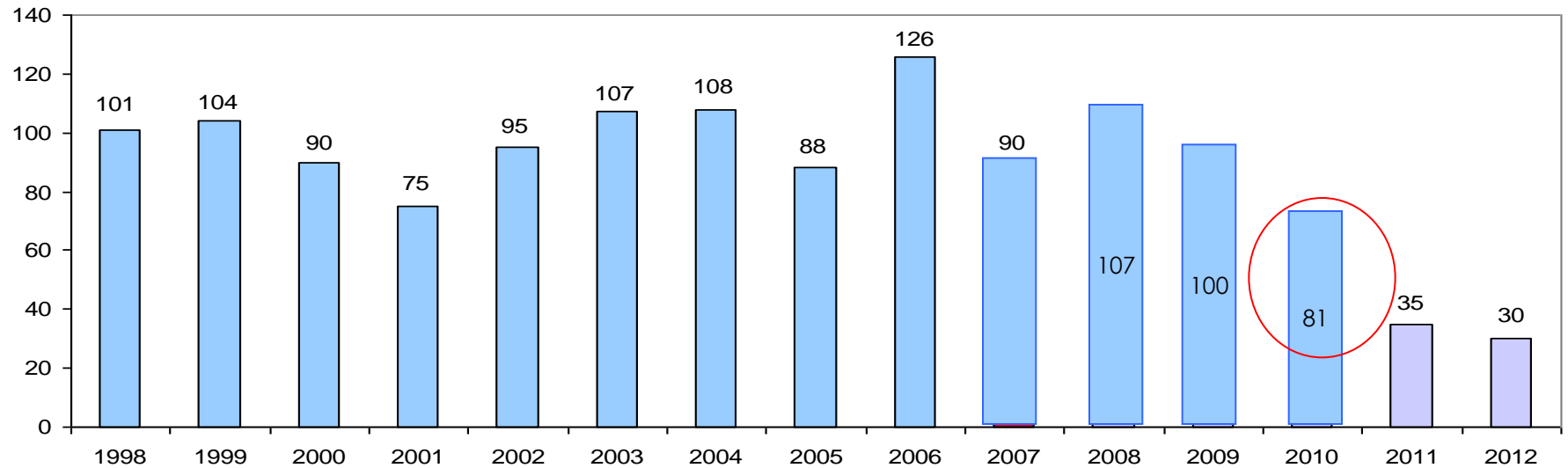
Cyanokit to all (also smaller) Tampere district paramedic units



Project continues 2010-2011

- **Reminding is very important**, because of the basic knowledge of cyanide poisoning is on poor level in rescue departments
- UH KOLs prefer Cyanokit in ambulance use; but they in have guided only one Cyanokit per treatment unit -> possibility to **increase the number of units** (Tampere case)
- **Collaboration with Poisoning Information Centre** will continue on high level
- Awareness of catastrophe management should increase (case Helsinki), **catastrophe stock** should be in all UH -> **New legislation 2011** is an opportunity
- Some districts don't have Cyanokit in ambulance -> **100% coverage**
- Untapped opportunity
 - Military, Viking Line, Silja Line

Results



Fire deaths 1998-2010, Target 2011-2012



Thank You!