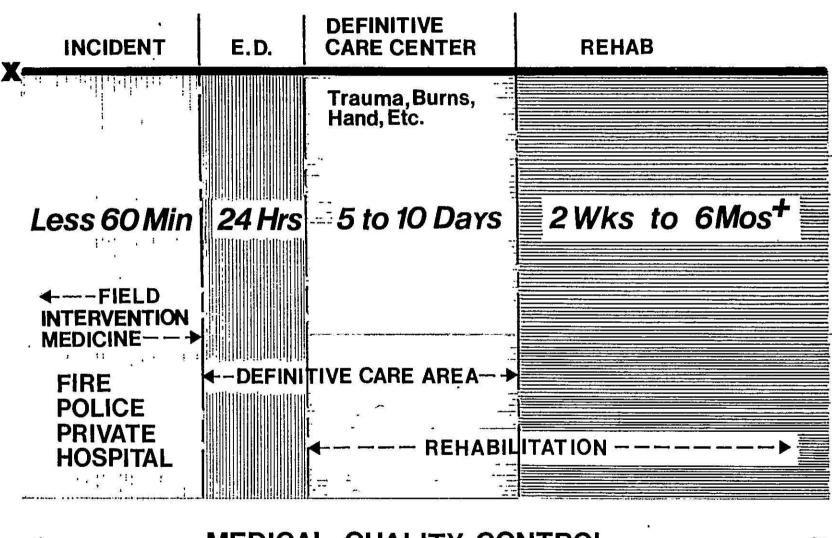
THE EMS CHAIN



MEDICAL QUALITY CONTROL-

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Mr. Gretes?

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MR. GRETES: Thank you very much, Dr. Mays.

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(SLIDE:)

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MR. GRETES: The concept of emergency medical

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services and the idea of emergency medical services as

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people.

a third service means different things to different

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We want to present here an idea of what would

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be a third service and the third service concept.

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Within the State of Maryland, we have an EMS system that is a third service. This particular system

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consists of the following components; the first component

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is access and communications. By "access" we mean methods

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by which the traveler on the highway may be able to access

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a system for response. "Communications" means the

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ability to be able to consult with medical personnel.

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As far as access is concerned, 911, the

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universal access number, exists within Maryland, in

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approximately nine of the counties. In other counties

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they are dedicated emergency numbers. We have a

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state-wide communications system which ties in throughout

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As far as number two is concerned, resussitation and stabilization, there is training of personnel within

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the state, somewhere around 9,000 EMTAs are certified

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the entire state.

1 2 within the State of Maryland. They are responsible for the resuscitation and stabilization at the scene.

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Number three is transportation and is available by land, surface ambulance; by sea, in coordination and liaison with the United States Coast Guard and two of

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the units within the state have their own emergency

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craft that can work in areas of water.

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Air transportation is available through the Maryland State Police Medivac system which consists of

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approximately twelve helicopters which are used and as a

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back-up of that particular system, we have the 247th

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medical detachment air ambulance at Fort George E. Meade,

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Maryland, with six additional helicopters.

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Care in route is afforded again by the EMTA ambulance attendant or the CRT, depending on his level

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of training and the condition of the patient. The

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helicopter observer or the helicopter attendant is

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trained to a level of what we call a trauma technician,

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that is a new designation that is being promulgated at

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the present time in other areas of the country.

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Number five, we talk about definitive care.

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"Definitive care" is available in the fact that area

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wide trauma centers have been set up in various parts of the state including Suburban Hospital in Bethesda;

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Prince George's Hospital in Cheverly, Maryland;

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Penisula General Hospital in Salisbury, Maryland and just 1 recently designated was the area wide trauma center in Hagerstown, Maryland, which is the Washington County 3 Hospital. 4 Each of these definitive care centers have to 5 meet the criteria that is established by the State of 6 Maryland in a paper that is called "The Echelons of 7 Trauma Care." 8 Six, rehabilitation. Without rehabilitation 9 and proper rehabilitation, the victim that has become a 10 patient through the system is unable to return to his 11 community as a productive citizen. 12 One of the aims of EMS is to be able to take 13 14 15 Number seven, coordination of EMS with the 16

a victim, convert him into a patient, rehabilitate him and return him to his community as a productive citizen.

first and second services. This coordination is done in Maryland through the communications system, with the police and fire departments. The Emergency Operations Centers located in the different parts of Maryland that are operated by the fire service are usually the ones to receive the first call.

Number eight, as far as components are concerned, is medical control. What is alluded to here is physician supervision, physician guidance, triage

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protocols and so on, in order to give medical guidance to the physician extender that is acting in the field.

(SLIDE.)

MR. GRETES: In an emergency medical services system, the pre-hospital phase that is the incident to emergency department phase, is managed by EMTs and paramedics or advanced EMTs, who convert the victims into patients.

(SLIDE.)

MR. GRETES: We look at the EMS chain. This particular slide is probably the most important as far as the presentation is concerned because it gives the total umbrella of EMS.

We start at point "X" which is the incident that occurs on the highway or in the shopping center or wherever it may be. This particular area is called field intervention medicine. This lasts less than 60 minutes in most instances, as far as the total EMS umbrella of patient care.

The next is the emergency department where definitive care begins. This is approximately a 24 hour duration, if it is in a community hospital or a hospital that does not have the facilities for definitive care such as trauma, burns, et cetera.

The definitive care centers are specialty

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referral centers are the centers at which the patient is taken for the specialty care that is necessary, whether it be burns or hands. For example, a hand center has been established in Baltimore at Union Memorial Hospital by Dr. Raymond Curtis. This particular center handles all hand injuries that occur within the state that are sent or referred to that particular center.

He has the facilities available and the resources available with personnel to handle these particular type of specialized injuries.

The adult trauma comes to the Maryland Institute of Emergency Medical Services, our back up is Johns Hopkins Hospital. Pediatric emergencies; patients under age 14 go directly to the Pediatric Trauma Center at Johns Hopkins.

Usually in these specialty referral centers, the patient remains for five to ten days. During this period, rehabilitation of that particular patient begins.

The patient is then moved onto other areas as far as specialized rehabilitation, depending on the type injury the patient has and in the rehabilitation area, the patient is taught to again function in a normal society and lead a productive quality life.

This rehabilitation phase lasts approximately two weeks to six weeks in most instances.

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