**PROJECT: GEMINI LOCATION: Guatemala**

**DATE STARTED: November 02, 2009 FINISHED: November 04, 2009**

 **OBJECTIVE : Disaster management education (DME)**

**Pediatric Disaster Life Support (PDLS)**

**Basic Life Support refresher course (BLS)**

**AUDIENCE: Firefighters (DME)**

 **Medical students and pediatric residents (DME)**

 **Physicians (BLS)**

**ROTARY CLUBS INVOLVED**

**LOCAL FOREIGN**

**Westborough Rotary Club Quetzaltenango Rotary Club**

**District 7910 District 4250**

**DOCTORS/TRAINERS**

**Eric Goedecke, M.D.**

**Richard Aghababian, M.D.**

**James Courtney, M.D.**

**James Hilldebrand, M.D.**

**Jorge Yarzebski Jr., NREMT-P**

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**# PARTICIPANTS FROM ROTARY & UMASS:**

**LOCAL: 3 Rotarians FOREIGN: 3 Rotarians**

**University of Massachusetts Medical School: 6**

**Disaster Management Education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DAY #1** | **LOG** | **AGENDA** | **LOCATION** | **# OF ATTENDEES** |
| **11-02** | **DME** | **Disaster management** | **Fire station** | **40 Firefighters** |
|  |  |  |  |  |

**Pediatric Disaster Life Support**

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| **DAY #1** | **LOG** | **AGENDA** | **LOCATION** | **# OF ATTENDEES** |
| **11-03** | **PDLS** | **See below** | **General Hospital** | **55** |
|  |  |  |  |  |

**Soporte de Vida Pediátrica en Desastres (PDLS):**

**Un curso para el Cuidado de los Niños durante un Desastre**

**Noviembre 3rd & 4th 2009 ~~ Quetzaltenango, Guatemala**

**Día 1**

**8:00 – 8:30 am Inscripción**

**8:30 – 9:15 #1 - Introducción a PDLS – Curse Descripción** [Aghababian]

**9:15 – 10:00 #2 – Medicina Pediátrica en Desastres – Fundamentos: Anatomía, Fisiología, Patrones específicos de las lesiones durante un desastre** [Goedecke]

**10:00 – 10:15 Preguntas / Discusión**

**10:15 – 11:00 #3 - Triage – Resucitación y estabilización para la transferencia**

 [Courtney]

**11:00 – 11:45 #4 – Tratamiento Inicial de las Victimas – Acciones después del Triage**

 [Hildebrand]

**11:45 – 12:00 Preguntas / Discusión**

**12:00 – 12:45 Almuerzo**

**12:45 – 1:15 # 5 – Estudio de casos: Lecciones Aprendidas – Los niños en riesgo**

 [Aghababian]

**1:15 – 3:45 #6 – Mesas de trabajo: (4 sesiones / 30 min. Cada una – 5 min. Intercambio)**

1. **Triage en desastres: Estudio de caso: Huracán & Transportación accidente** [Aghababian]
2. **Pandemia de gripa– H1N1**[Hildebrand]

**3. Habilidades en Resucitación Pediátrica** [Goedecke]

**4. Niños como Victimas de Terrorismo – Evaluació de riesgo, respuesta**  [Courtney]

**3:45 – 4:00 Día 1 Conclusión**

 **Revisión de las actividades del día 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DAY #2** | **LOG** | **AGENDA** | **LOCATION** | **# OF ATTENDEES** |
| **11-04** | **PDLS** | **See below** | **General Hospital** | **55** |
|  |  |  |  |  |

**Día 2**

**8:00 – 8: 30 Inscripción**

**8:30 – 9:30 #7 – Principios Generales de la Atención en Desastres General [Goedecke]**

**Planeación en Desastres / “Lecciones Aprendidas” método para el entrenamiento & simulacros**

 **Para los Rescatistas en Desastres**

**9:30 – 10:30 #8 – Aspectos de Salud Publica (PH) – Mitigación del Desastre [Courtney]**

**10:30 – 10:45 Descanso**

**10:45 – 12:45 pm Mesas de trabajo: Desastre simulación**

**12:45 – 2:00 Almuerzo de Trabajo –: Después de la revisión de la acción [Goedecke]**

**2:00 – 3:00 Información del curso– Evaluación del curso -- Conclusiones**

**SUMMARY OF PROJECT:**

**Eric Goedecke, DO; James Courtney, DO; Richard Aghababian, MD; James Hildebrand, MD; Jorge D. Yarzebski, NREMT-P, BS; Jorge L. Yarzebski, MD, MPH**

**Improving Pediatric Mass Casualty Triage in Guatemala: A Pilot Program**

**Study Objectives:** Different methods of triage are available throughout the world; to the best of our knowledge, there has been no published literature on the teaching of these methods in Latin America. The purpose of this study was to evaluate the efficacy of providing training in the triage of pediatric mass casualty victims to prehospital personnel as well as physicians in Guatemala.

**Methods:** The training included a pre intervention test, 12-hour education module, live victim triage scenario and post intervention test. The education module included slide and video lecture presentations, which were translated into Spanish both on the screen and by an interpreter on site, followed by small group sessions and tabletop exercises. The lectures and small group sessions were adapted from Pediatric Disaster Life Support (PDLS), a course developed at the University of Massachusetts Medical School. The triage systems taught were the START and JumpSTART methods with the emphasis being on pediatric victims. The live victim triage scenario included 30 local school aged children who were moulaged and dispersed throughout an auditorium which was dark and included loud radio transmissions in the background as a distractor. There were 55 students who were a mix of prehospital personnel, attending physicians, pediatric residents and senior medical students. The entire training was delivered in Spanish, the native language of all participants, over a two-day period in Quetzaltenango, Guatemala. This training was supported by an educational grant from Rotary International and the Global Emergency Medicine Initiative (GEMINI), a non-profit extension of the Rotary Club in Westborough, MA.

**Results:** In the pre intervention test, 95% of students stated that they had taken care of patients who were victims of disaster. The pre intervention test questions were scenario based and asked students to place hypothetical victims into triage categories and had a mean correct score of 43%. The post intervention test was given immediately following the training and asked the students to categorize a different set of hypothetical victims. The mean correct score on the post intervention test was 95%, which showed a marked improvement from the scores of the pre intervention test.

**Conclusion:** Providing disaster and triage education to prehospital personnel and physicians in Guatemala vastly improves the ability of these providers to accurately triage pediatric victims of disaster. Additional research is needed to determine long-term efficacy of the education that was provided and to reevaluate the goals and objectives of PDLS taught in a Latin American country.