

OPERATIONAL MILITARY MEDICINE SYMPOSIUM

Yokosuka, Japan
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CARAT: Past, Present and Future

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Asst Chief of Staff Health Services
Commander Logistics Group Western Pacific







CARAT



- Cooperation Afloat Readiness And Training
- Created in 1995
- PACFLT program
- Series of bilateral exercises between U.S. and partner nations

Origin

- Landing Force CARAT was created in 1995 consolidating 18 annual regional exercises



Mission

- Enhance regional cooperation and interoperability
- Build alliances between U.S. and partners
- Strengthen professional skills cross culturally
- Goal: Add to security and stability in the region

Southern Asia



Initial CARAT Partnerships

- Royal Thai Navy in 1995
- Exchange of knowledge, improve operational planning
- shipboard operations
- amphibious operations
- spec ops
- weapons training
- humanitarian operations
- public affairs

Ship Ops



Navigation



Photo: Handout

Damage Control & Firefighting



Amphibious Operations



Spec Ops



Weapons



Public Affairs



Humanitarian Operations



1996 - 97

- Brunei, Philippines, Indonesia, Malaysia, Thailand and Singapore
- 2 month period in South China Sea
- Air, sea and land
- Active duty and reserve
- maritime patrol aircraft
- USMC- special air-ground task force
- Medical detachments
- USCG

1998

- Increased to 3 months (May 12 – Aug 5)
- Approximately 1,700 USN and USMC
- USS Cushing (DD 985)
- USS Fort McHenry (LSD 43)
- USS Sides (FFG 14)
- USS Monsoon (PC 4) and USS Hurricane (PC 3)
- USS Houston (SSN 713), USS Jefferson City (SSN 759)
- USS Salvor (ARS 52)
- 3rd MEF

1999

- 2 Phases
- June focused on Anti Submarine, Anti Air, Amphibious Warfare, Mine Warfare, diving and salvage and logistics
- Introduced Community Relations projects -repairing an orphanage's playground, painting a school, distributing Project Handclasp supplies
- Local sporting and social events

1999 continued

- Expansion of CARAT with the Republic of Singapore
July 12 – 23
- Sea and shore
- Total of 2000 officers and men, 17 ships and aircraft
including USAF and RSAF

1999

- Surabaya, Indonesia – August
- Naval Exchange Activity - NEA
- Exercise focused on HA/DR
- ENCAPs, MEDCAPs and DENCAPS.

Sports Day



Ship Riders



Southeast Asia Map



Current CARAT Partnerships

Thailand
Singapore
Malaysia
Philippines
Brunei
Indonesia
Cambodia
Vietnam *
Bangladesh
Timor Leste

Southern Asia



2010

- Cambodia and Bangladesh joined
- 18,000 US and partner personnel- 10x
- 50 aircraft
- 73 ships
- Vietnam - NEA

Present CARAT Medical Mission

- Planning Conferences
- Site selection/ Topics
- Logistics - supplies
- Personnel/Transportation
- Site set up
- Funding request

CARAT Medical Cost 2011

Country Area	Month	SMEE days	MEDCAP days	MEDCAP Total Patients	Medical Patients seen	Dental Patients Seen	Optometry Patients seen	HCA Funding	Life Support – Ground Transport Interpreters, Water	Travel Cost- Travel & Per Diem for CLWP
Thailand Sattahip	May	1	2	1248	621	113	514	\$45K	3500	2300 x 5 11,500
Indonesia Ciangsana (Jakarta)	May	1	1	951	438	63	450	\$50k	3500	2034x5 10,170
Malaysia Kuantan	June	1	2	1246	468	145	633	\$30K	3500	1600x4 6,400
Philippines Palawan	June	1	3	1941	1069	312	560	\$10K	3500	2140x5 10,700
Vietnam Da Nang	July	1	2	2047	1460	71	516	\$10K	3500	1860x4 7,440
Singapore	Aug	1	0	0	0	0	0	0	0	0
Bangladesh Chittagong	Sept	2	2	878	239	274	365	\$30K	3500	2900x5 14,500
Cambodia Sihanoukville	Oct	1	2	1804	804	158	842	\$10K	3500	1400x4 5,600
TOTALS		9	14	10,115	5099	1136	3880	\$140K	\$24,500	\$66,310

- The average cost per patient seen approximately **\$14**
(Only considering HCA funding \$140,000 and 10,115 patients seen.)
- The average cost per patient seen = **\$22.82**, considering HCA/Travel/Support costs which total \$230,810
- The average cost per mission (7) = **\$32,972** considering HCA/Travel/Support costs

Pacific Partnership

- Began 2004 in response to tsunami as Operation Unified Assistance
- Multilateral countries with NGO participation
- Since 2006 - 250,000 pts and over 150 bldg. projects
- In 2011 saw 38,696 patients and 800 animals in Tonga, Vanuatu, Papua New Guinea, East Timor and Micronesia

2011 Comparison

Mission	CARAT	Pacific Partnership
Duration	40 days	5 months
Countries	8	5
Patients	10,115	38,696

CARAT Thailand







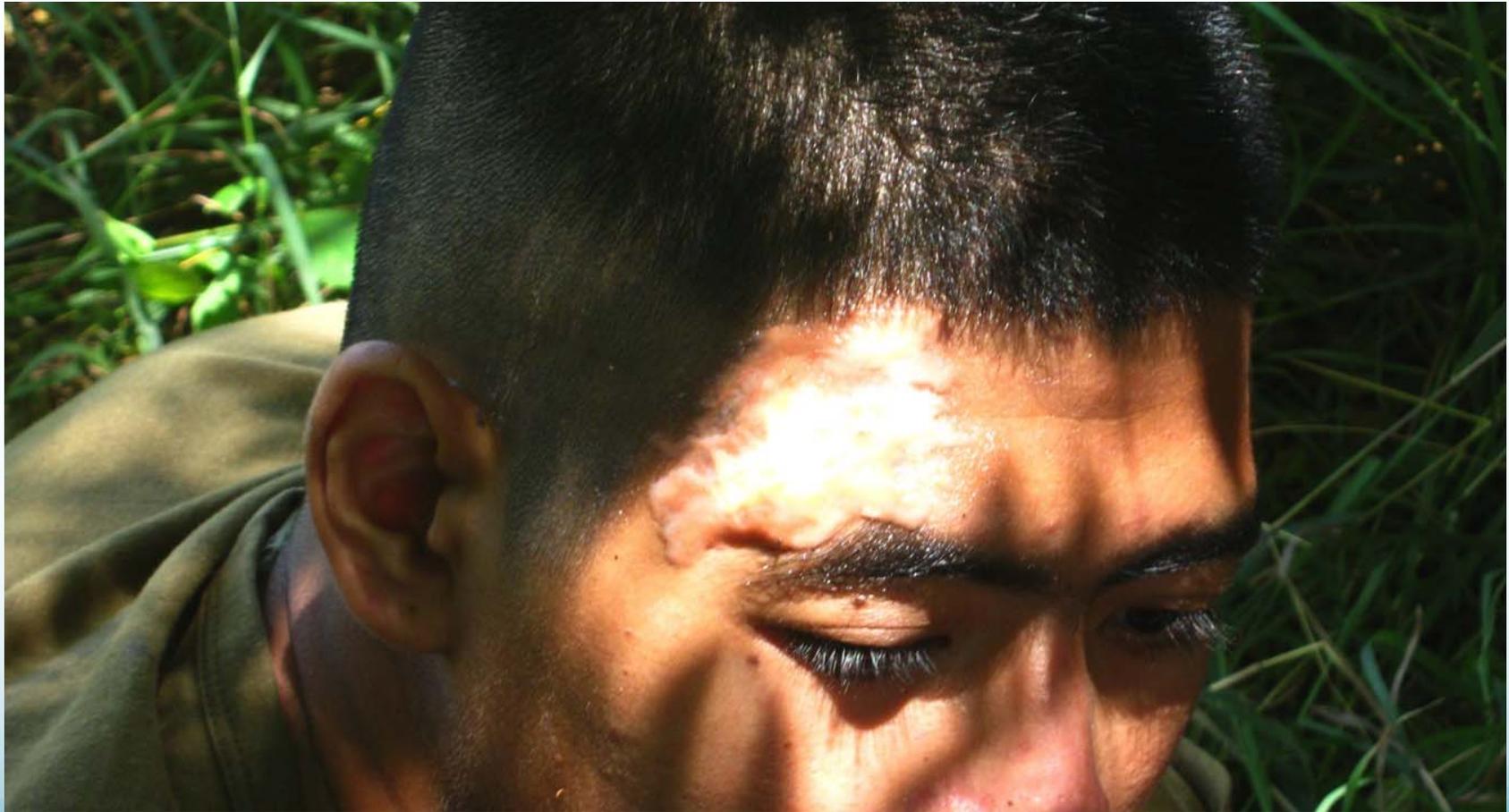






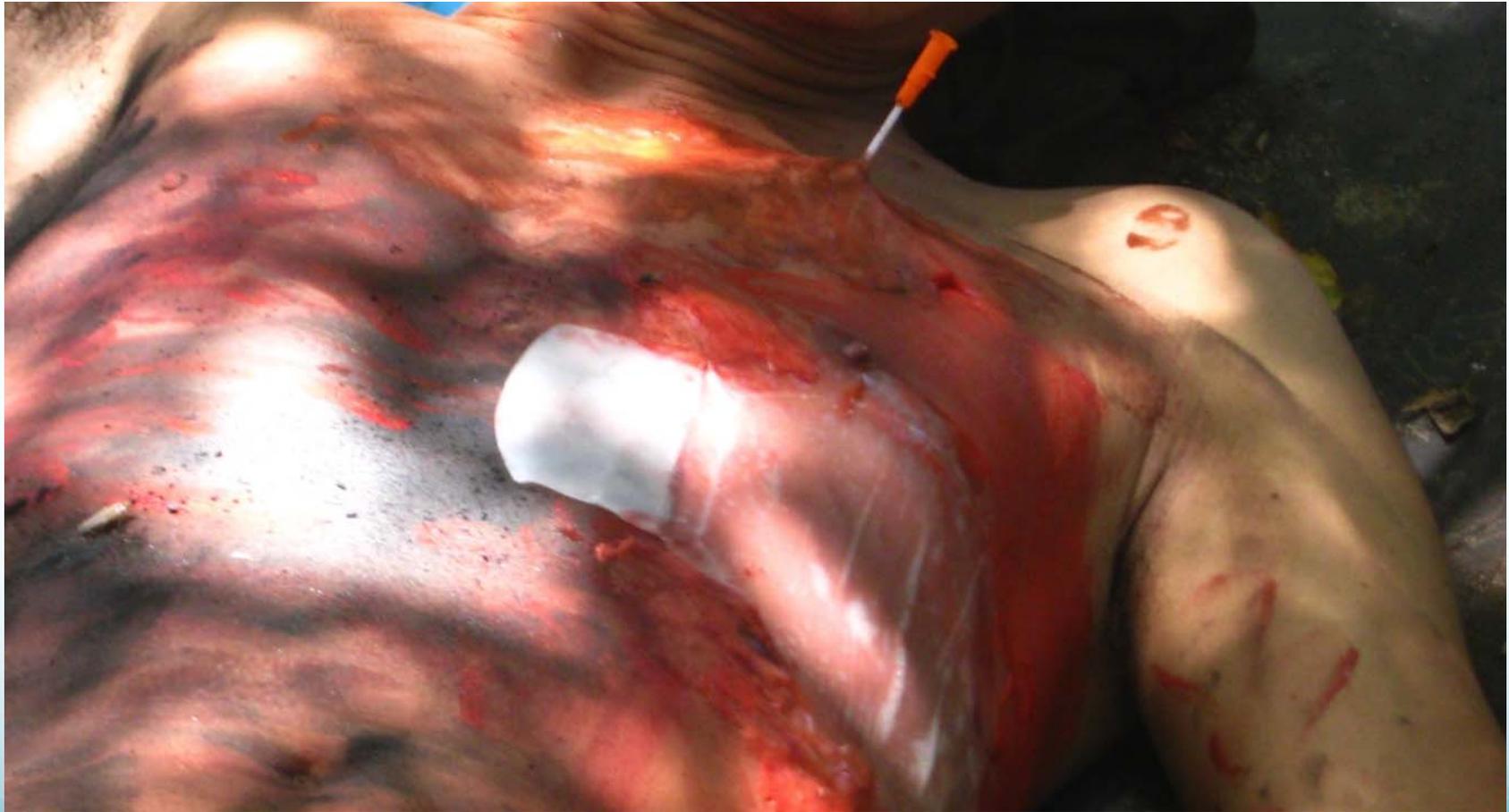




















Forward Resuscitative Surgical System

























CARAT Malaysia





(SUHO S) Power 11,000 CC 420 HORSE POWER (HP)

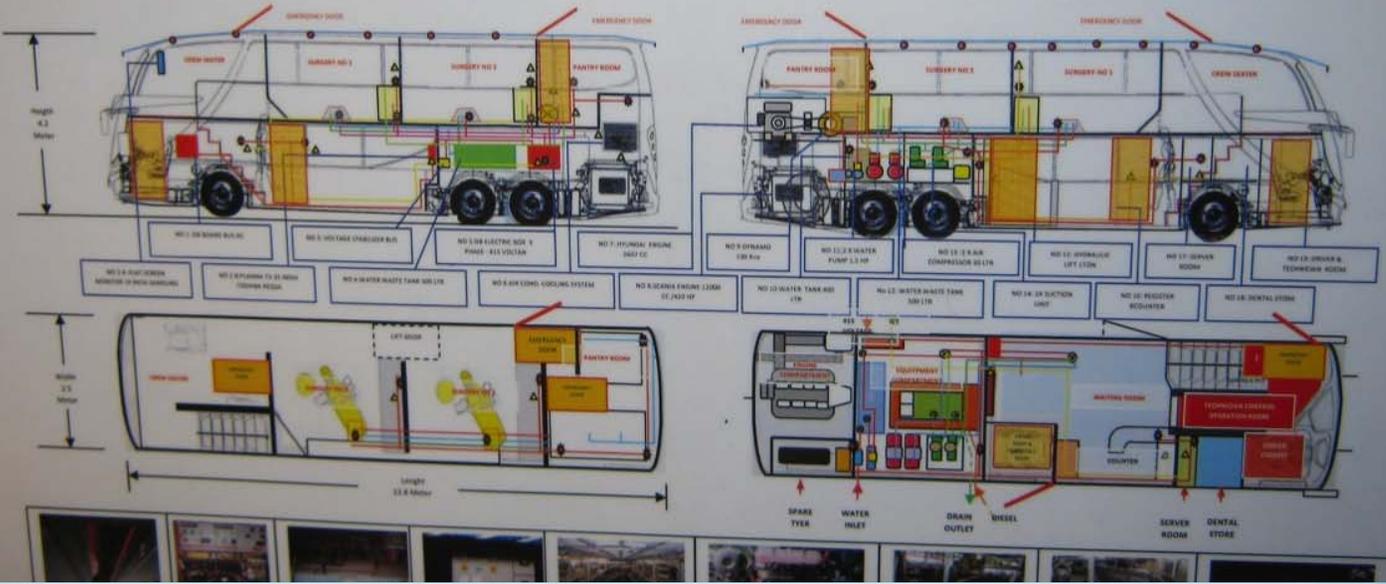
- **MAX OUTPUT** 420 HP (309kw) @ 1900 rpm
- **Max Torque** 2000 Nm - 1100 - 1300 rpm
- **Brakes** OR R014 Optimum - 8 Speed Manual Gearbox @ Optimum
- **Brakes** - Discs Integrated Hydraulic Retarder
- **Brakes** - Full Air Brakes With Independent, Disc Brakes on front and rear complete ABS
- **Suspension** - Air Suspension and the possibility of Electronic Level Control. Front independent suspension with air bellows all round (w/ heavy duty absorbers. Anti roll bars, Complete Traction Control (TC) System
- **Cooling System** - Water
- **Tyre Size** - Max tyre size 9.00 x 22.5 (Type) 795 / R09 22.5 Tubeless
- **Auto Fire Alarm for Engine System** - Temperature Monitor located at Engine Compartment
- **Front Axle Load (Max)** 7,500 Kg / **Central Load (Max)** 11,500 Kg / **Tag Axle Load (Max)** 8,000 kg

OVERALL HEIGHT: 4.2 Meter (13600)
OVERALL WIDTH: 2.5 Meter (7900)
OVERALL LENGTH: 11.8 Meter (13200)
OVERALL WEIGHT: 30 TON
MAXIMUM SPEED: 90 KM/H
MAXIMUM CREW: 2 + 4 (DRIVER + OO/OSA/DT)
FUEL TANK (DIESEL) CAPACITY: 500 LTR
WATER TANK CAPACITY: 300 LTR
WATER WASTE TANK CAPACITY: 400 LTR
ELECTRICAL POWER SUPPLY: 3 PHASE 415 VOLTAN TO DB BOARD TRANSFER 240 VOLTAN
LENGTH OF ELECTRIC CABLE: 100 METER TYPE 5 WIRES (BLUE, YELLOW, BLACK, BROWN & WHITE)
TOTAL DENTAL EQUIPMENT: 30 UNIT (13,174 Watt @ 20 Unit)
DATE OF COMMISSION: 23 JULY 2009

- **MAX OUTPUT** 3,000 rpm
- **Power to Dynamo by Belting System**
- **Power Air Condition Compressor**
- **Oil Compressor maximum 2 L/min**
- **Cooling System by Water (Mix Tank 6.5)**

GENERATOR (DYNAMO) - Type South Korean Power 30,000 Watt (1000 Kva) to supply 20 Dental Equipment Generated 11,134 Watt.

Generator Working Time: 8 Hours to 10 Hours Engine Working.















- CARAT Philippines







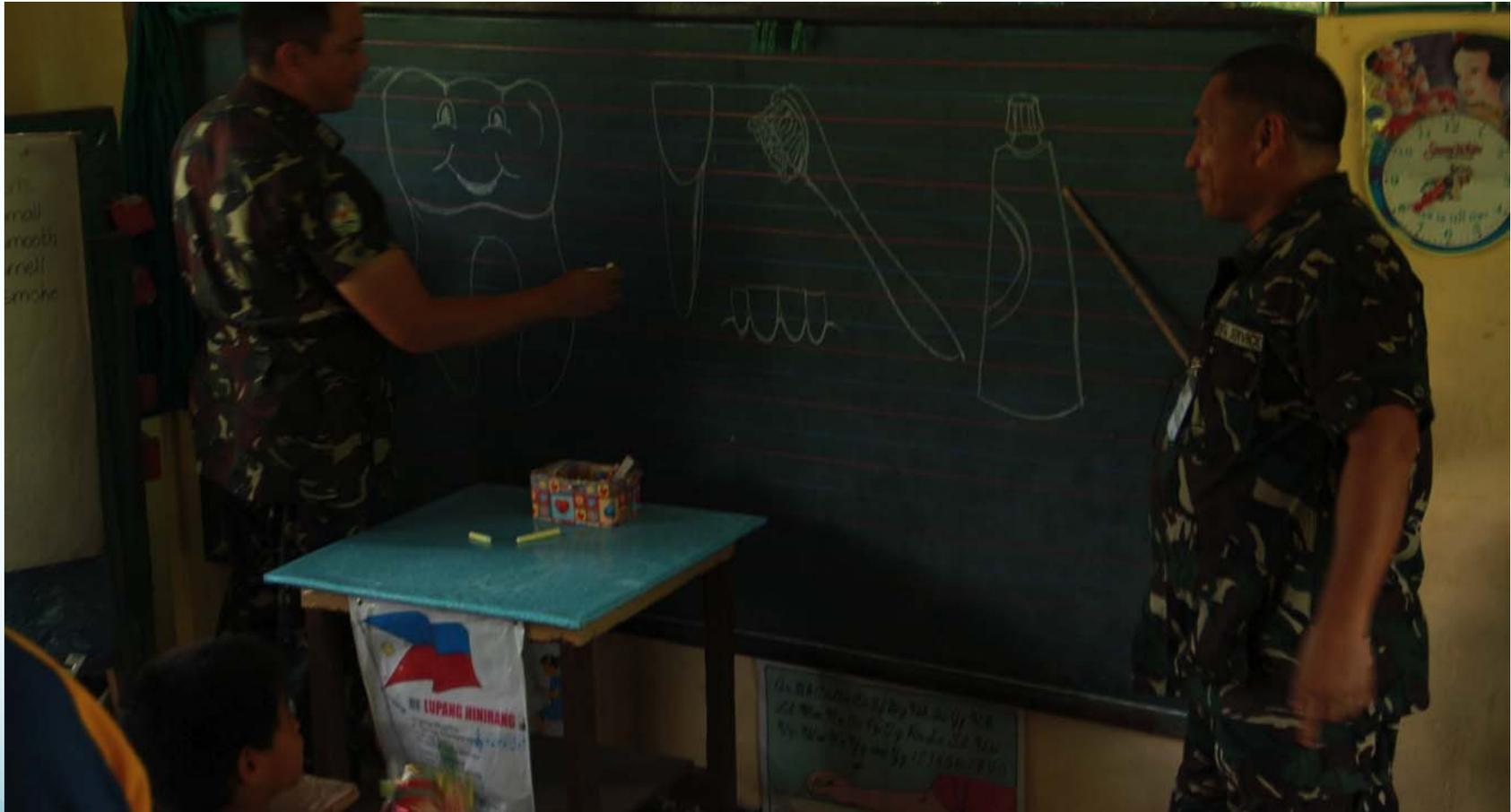
















SMEE



CARAT Bangladesh







The image shows a woman in a white lab coat standing at a wooden podium with a laptop, presenting. Behind her is a projection screen displaying a slide with the following content:

- Zinc**
 - Growth retardation
 - delayed skeletal maturation
 - skin and eye
 - 48% of world population has zinc deficiency
- Calcium**
 - Osteoporosis
- Vitamin D**
 - Rickets: bone malformation

CARAT Cambodia











- CARAT Singapore









- CARAT Indonesia





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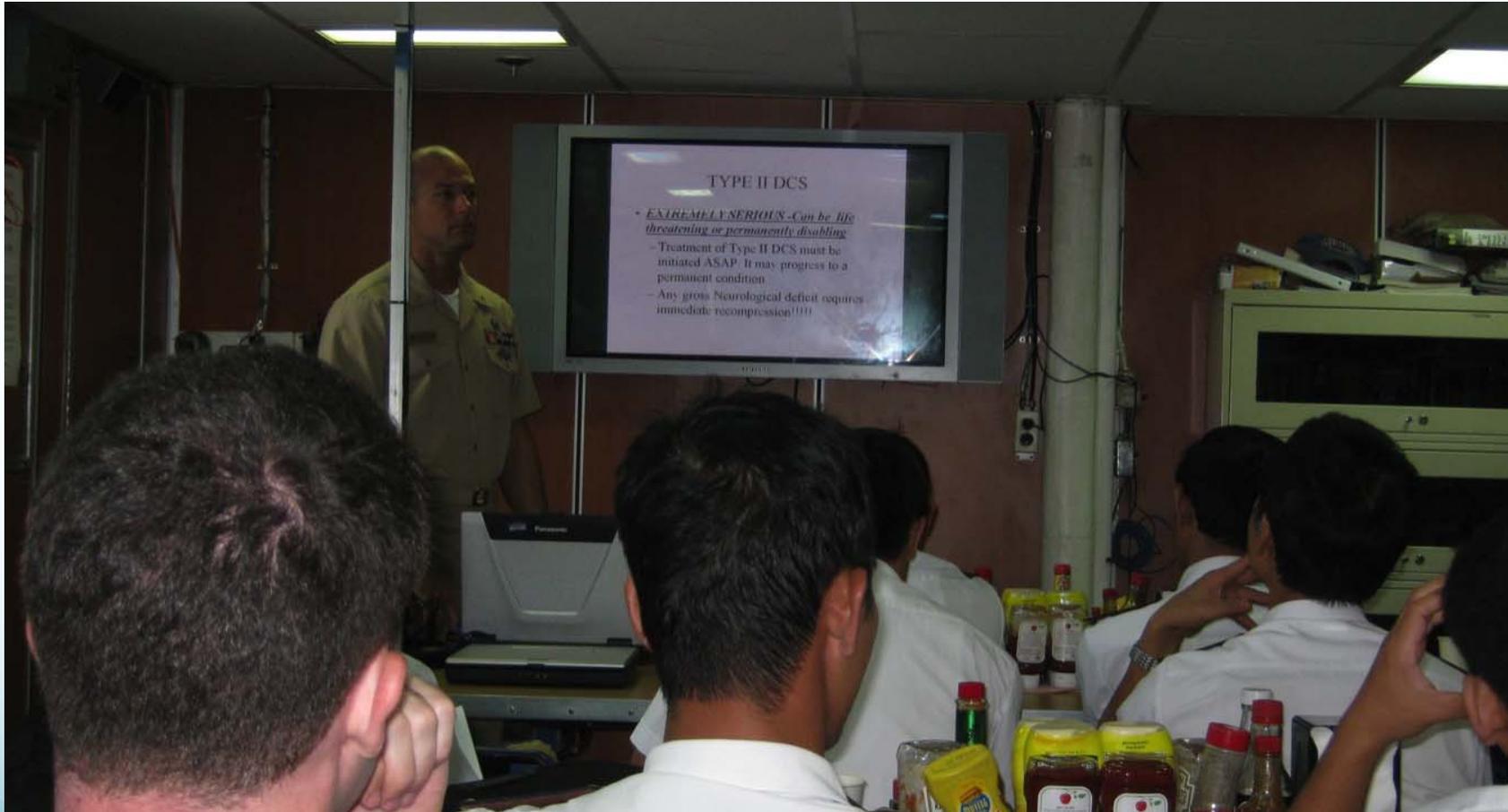






- Naval Engagement Activity Vietnam





TYPE II DCS

- EXTREMELY SERIOUS - Can be life threatening or permanently disabling
- Treatment of Type II DCS must be initiated ASAP. It may progress to a permanent condition.
- Any gross Neurological deficit requires immediate recompression!!!!









Challenges

Funding?

Personnel?

Mission Accomplishment?

FUTURE?

- * Maldives
- * Sri Lanka
- * Discontinuation of MED/DENCAPs
- * SMEEs

Evolving Role

- PACFLT
- CTF-73

FY-13 - N3

FY-14 - DESRON 7

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Questions?