



























RVOC Meeting 2004



Medical System Overview

Medical Advisory Systems (MAS)
MedAire, Inc.

System Design and Operation
 Review Existing Services
 New Service offerings



- Began 1984
- Based in Owings, MD
- RMA with 24/7 physician access
- Pharmaceutical supply and replenishment
- Clinic Services
- Medical Locker Inspections/Certifications



- Established 1986
- ISO certification
- 186 employees in 6 countries
 - MedAire, Inc., Tempe, Arizona USA
 - MedAire Ltd., Farnborough, UK
 - Global Doctor Clinics: China, Thailand, Indonesia
- Publicly traded ASX:MDE









MedAire

24/7 Physician Access

 Clients in Maritime, Aviation and International Travel Industries

Equipment/Pharmaceutical Services

Educational Services

Travel Assistance

Global Footprint





Remote Environments Currently Served



BOMBARDIER



Maritime 1700+ Ships

Commercial Airlines 74 Airlines Worldwide 500 million passengers Bus. & Gen. Aviation Senior execs./Int'l flights 1800 Aircraft

Corporate Travelers / Expats 250,000+ travelers/expats

Federal U.S. Air Force, Navy, Army



















Statistics

Maritime Consults: 100/month

UNOLS Consults: ~ 75-80 so far

All MedAire Consults:~22,000 this year
Evacuations: 100-150/yr
Clinic visits 4000-5000



Protecting health and safety of people working, traveling or living in remote environments.

Goal: Prevent the emergency from ever occurring Preventive Reactive Information Resources Remote Assistance Direct Assist.



Preventive

Resources Remote Assistance Direct Assist.

Education

Information

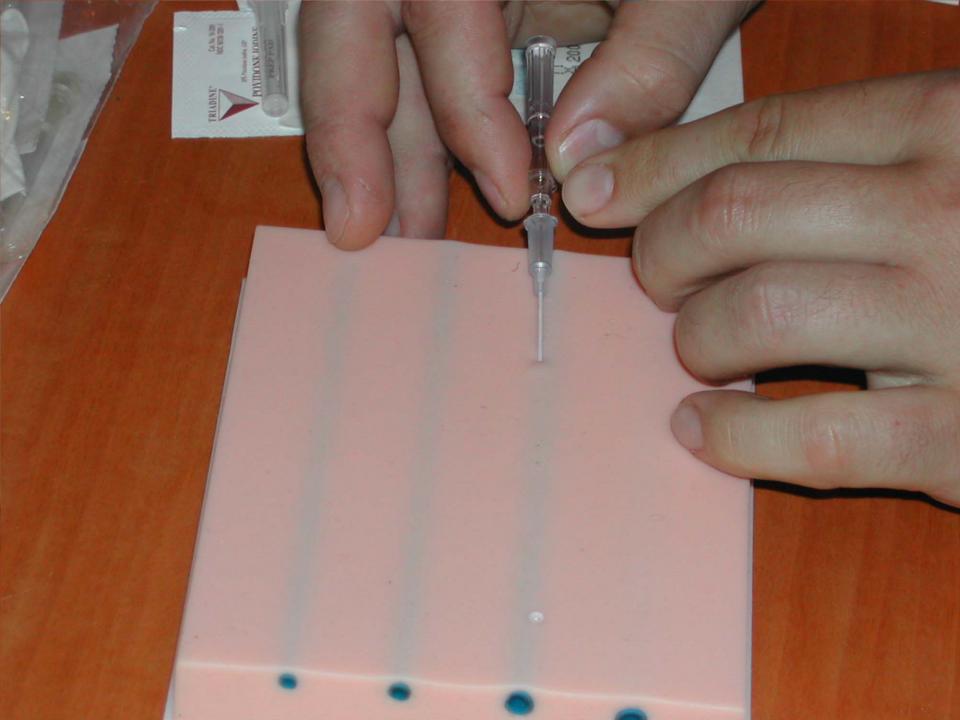
- Training worldwide
 - Recognize and manage illness & injury in maritime environment
 - STCW approved
 - On-board or other locations





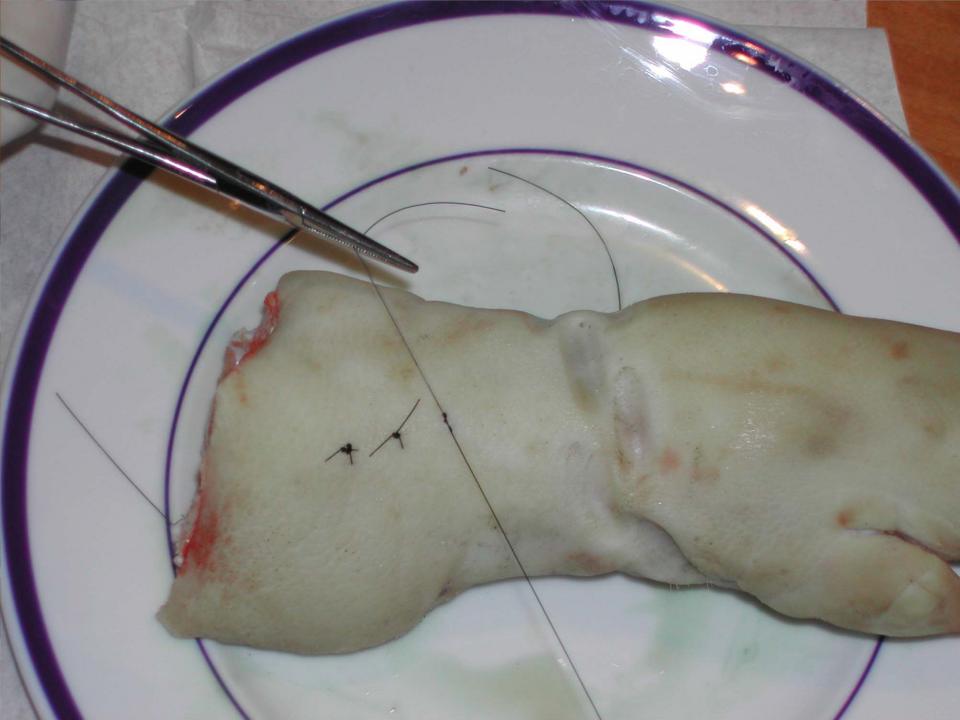












Preventive

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Resources

- Emergency Assist. Direct Assist.
- Pharmaceutical Supply
 - Medical locker inspections
 - Inventory control services
- Medical Kits
 - Maritime-specific
- Automated External Defibrillator (AED)
- Remote vital signs monitoring technology
- Portable oxygen solutions



Reactive







Pharmaceutical Supplies

Antibiotics

- Analgesics
- Wound Management
- Cardiac Medications



Respiratory Medications

Antimalarials**

Bulk or Kit Configuration

Pocket

MARITIME ADVANCED MEDICAL KIT

10

20

20

50

30

2

2

2

4

20

20

20

2

1

20

1

2 18g

2 20g

2 25 g

20

20

5

2

Tongue depressor

Adhesive Knuckle bandage

Adhesive Bandage 1"x3"

Antibiotic ointment packet

(pair) Non-latex exam glove

TEAL

Hydrocortisone 1% cream

Medizine tablets (100/bt)

Acid reducer tablets (60/bt)

Caladryl lotion

Eye wash

Cold/cough liquid

Dental first aid kit

Instant cold pack

Antacid tablets

Glucose gel

HYPODERMIC NEEDLES

Oral rehydration salts

Aspirin 325mg tablets

Acetaminophen 325mg

Ibuprofen 200mg tablets

Silvadene cream 1%, 50g

Preparation H cream

Motion sickness tablets (36/pk)

Adhesive Fingertip bandage

RED

	KED
30	Gauze pad 4"x4"
2	Eye shield

6

1

- Gauze roll 4" Gauze roll 6"
- Kerlix gauze roll 4.5" Burn dressing 4"x16"

Gauze roll 2"

Δ

4

2

3

2

2

2

2

Δ

4

1

- 4 Burn dressing 2"x6" 6
- Petrolatum gauze 3"x9" 4
- 4 Abdominal gauze pad 5"x9"
- Bloodstopper multi-use gauze dressing
- Eye gauze pad Trauma shear Non-adherent gauze pad 2"x3"
- 6 Waterproof tape 1" 1
- 2 Tape 1"
 - 2 Benzoin tincture swabs

4-0absorbable

3-0non-absorbable

4-0non-absorbable

5-0non-absorbable

Wound closure strips ½" (6 pack)

Wound closure strips ¼" (10 pack)

6 Cotton tip applicator

6 Tampon

SUTURES

1

1

3

3

1

1

1

- BLACK
- Triangular bandage Elastic bandage 2" Elastic bandage 4" Elastic bandage 6"
- Malleable splint Malleable finger splint
- Tape 3" PVP iodine solution
- Wound cleanser solution 1
- 2 Scrub brush (no detergent) 3 Latex surgical glove medium -pair 3
- Latex surgical glove large-pair 2
- Prep Razor Lubricant jelly
- 6 Hydrogen Peroxide
- Urinary catheter 14ff Scalpel #11 Scalpel #15 1

SYRINGES

1

2 20cc

2 10cc

2 5cc 2 3cc

2 1cc

1

1

20

1

2

1

1

4 Silver nitrate sticks (pair) Non-latex exam gloves

Wound closure trav

Skin Staple remover

Skin stapler

YELLOW

Diphenhydramine 50mg tablets

Gentamicin 0.3% ophthalmic

Ciprofloxacin 500mg tablets

Loperamide 2mg tablets (100/bt)

Lidocaine 1% 10mg/ml injection

Diazepam 10mg tablets (100/bt)

Miconazole Nitrate 2% cream

Oxycodone HCI 5mg capsules

60cc with catheter tip

- IV CATHETERS 12g 18g 20g
- Winged infusion (23g)
- IV start kit 1
- IV solution set 10 drop macrodrip 2
- Sodium chloride 0.9% IV solution
- Sharps container-small

ORANGE — Prescription Medications

- Albuterol 90mcg 17g inhaler 1
- Lidocaine 2% viscous solution Ethyl Chloride topical anesthetic
- skin refrigerant Nitroglycerine 400mcg 12g lingual
- pumpspray Glucagon 1mg-1unit
- Epinepherine 0.3mg auto-injector
- Epinepherine 0.15mg auto-injector
- Doxycycline 100mg tablets (50/bt)
- Atenolol 25mg tablets (100/bt)

Cortisporin Otic solution 10ml 1 These prescription drugs should not be administered without the advice of a physician.

- PERIMETER
- Cervical collar adjustable

Alcohol prep pads

BZK cleansing towlettes

(pair) Non-latex gloves

Inhaler Chamber

LID POCKET

- Hard surface disinfectant wipe Pocket mask with Oxygen inlet Biohazard bag
- Thermometer oral 3
- Thermometer hypothermia Pen light with pupil gauge
- Blood pressure cuff
- Stethoscope-sprague style
- (pair) Non-latex glove

KIT SPECIFICATIONS : Weight = 31 pounds with prescription medication, 23 pounds without prescription medication Height = 13 inches; Length = 17 inches; Width = 14 inches

(100/bt)

ointment

(100/bt)

Equipment



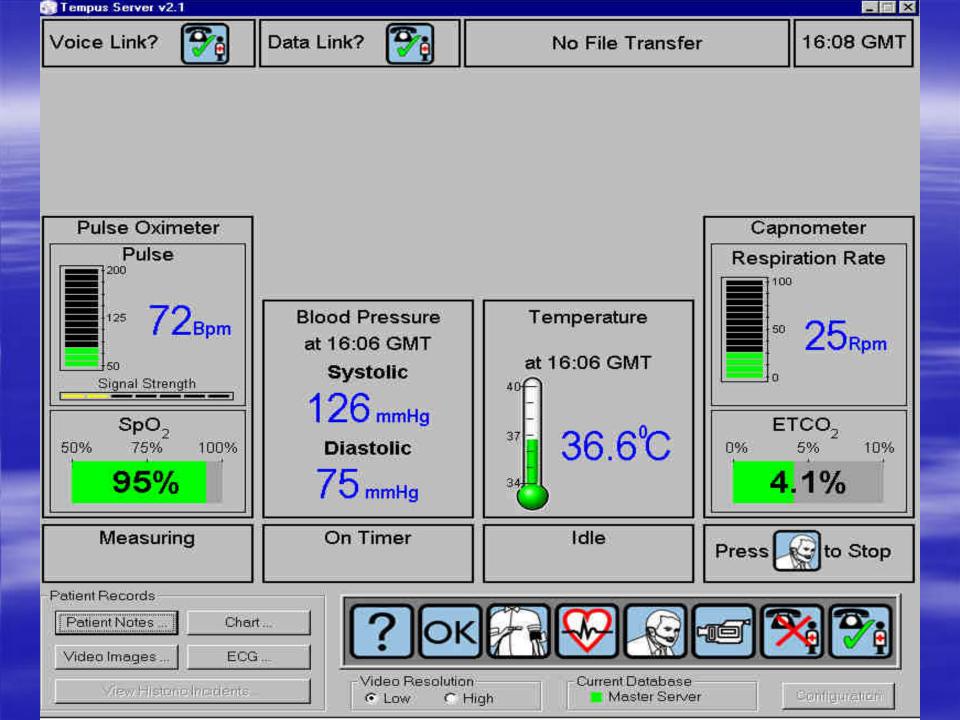












Preventive

Reactive

Information

Resources Remote Assistance Direct Assist.

One Call, One Standard through Centralized Operations

24/7 Operations, Communications in 140+ languages



- **Board-certified emergency physicians & specialists**
- Supported by Registered Nurses and Communication Specialists
- Real-time assistance, land-based medical resources, evacuations ٠



Contact Numbers

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Preventive

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Reactive

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Resources

Emergency Assist. Direct Assist.

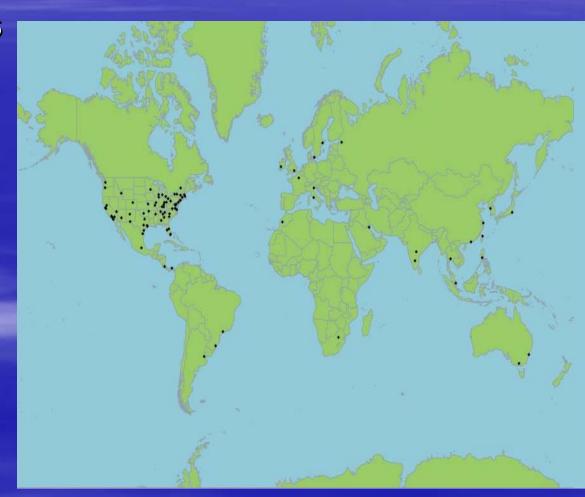
- Global Doctor clinics
 - Eight Asian locations
 - Western medicine
 - Telemedicine
 - Varied client base
 - Expatriates
 - Western travelers
 - Affluent local population
 - Partnerships
 - Local hospitals
 - Corporations



Additional Services

ISM Services– MGRC Program

- Security Programs
 - Advisory
 - SSAS (pending)
- Travel Assistance
 - Concierge
 - Travel Monitor





QUESTIONS?

Recent Scenario: Hurricane Ivan



Freeport, TX to Aratu, Brazil

- approx 200 miles southwest of the Dominican Republic, Caribbean Sea
- Cargo shifts and falls on two Russian crewmen
- #1) open fractured upper arm, severe blood loss & pain, loss of consciousness
- #2) closed deformity in left ankle, severe pain, conscious







Priority 1 – Stabilize the Patients

- Advice on medications
- Based on photos, advice on extremity manipulation
- 2-way Communications in Russian
- 15 hours on-going case management





Priority #2 -- Evacuation

- Three scenarios studied with the shipping company
- Elect:
 - Activate the U.S. Coast Guard helicopter from San Juan, Puerto Rico
 - Meet the ship at sea at first light and extract the patients via hoist
 - Transfer to Santo Domingo, Dom Rep.
- MedAire coordinates with U.S. Coast Guard







Evacuation Assets



 U.S. Coast Guard Dolphin HH-65 helicopter with medical team lifts off from the 7th District Borinquen station in Puerto Rico



 A HU-25 Falcon was also dispatched to provide real-time communications between MedAire, the ship, the helicopter and the Coast Guard station



Outcome

- Patient #1 -- MedAire arranges for:
 - ambulance to meet helicopter at Santo Domingo airport
 - the admission of the patient and guarantee of medical expenses at the Hospiten Santo Domingo
 - On-going status communications from MedAire to shipping company and captain
 - Possible further air ambulance evacuation to Houston

- MedAire continues medical monitoring
- Patient discharged from hospital





Outcome

- Patient #2
 - Not life threatening injuries, but needed transfer for proper medical attention
 - Boats unable to leave Santo Domingo due to heavy seas
 - MedAire identifies a second port Caucedo
 - MedAire arranges another ambulance from Santo Domingo to go to Caucedo and meet the rescue boat with the second patient
 - Patient is admitted to Hospiten Santo Domingo

