

Data sharing –the Grenada lesson

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e_HR project

HIS in the USA

- * 1960 – Hospital information system using mainframe computers, mainly for billing
- * 1970 – include labs and pharmacy services using mid-range computers
- * 1980 – include clinical information with client-server computing
- * 1983 – Grenada invasion
- * 1990 – Community Health information system (CHIS) or network (CHIN)

Grenada



- * A country in the Caribbean sea
- * Population 110,000
- * 19 October, 1983 – a coup to topple the government
- * 25 October, 1983 The United States invaded Grenada, *Operation Urgent Fury*

The military plan -- C2IR

- * **Command** – vice admiral **Joseph Metcalf, III**
- * **Control** – task force of 7500 (marines, SEALs, Rangers), battle group *USS Independence*
- * **Intelligence** - Grenada army – 1500 men
- * **Reconnaissance** : tour guide map from a travel agency

Battle Plan



- * Marines attacked from the North
- * Rangers landed on the Saline Point Airport in the south
- * Radio-communication managed by off-shore warships

Results



- * Rangers under heavy attack, radioed marines for support but failed
- * SEALs surrounded, saw helicopters above but communication failed
- * SEAL called Fort Briggs using commercial phone
- * Fort Briggs ordered helicopters to support via satellite

Operation Urgent Fury

- * Operation Urgent Fury is the military equivalent of a Japanese Kabuki dance, created by 3-4 choreographers, speaking different languages, all working independently of each other
- * Congressional hearing – to revamp the strategy
→C4IR

C4IR

- * Command
- * Control
- * **Computers**
- * **Communication**
- * Intelligence – human, satellites, drone
- * Reconnaissance – topographic maps

- * Very successful in the Gulf wars

Traditional clinical practice C2IR

- * Command – doctor
- * Control – doctors order
- * Intelligence: laboratory results
- * Reconnaissance – history and physical examination

Problems of Modern day medicine

- * More complicated cases
- * More than one doctor
- * Multiple specialties
- * Battery of investigations
- * Communications between doctors vital, but
- * Doctors more busy
- * Higher patient expectations

Modern medicine - C4IR

- * **Command and control, I, R**
- * **Computers – HA CMS 2.0 and the HKMA CMS 3.0 (TaoYuan and Wuhan version)**
- * **Communication - sharing of clinical and laboratory data, but data standardization is vital to have the link**