Digital Radiography (DR)

Description

DR is advanced imaging technology that provides a digital array replacement for conventional X-ray systems. DR captures X-ray images in digital format using an optic digitizing device. The digital data generated is collected by a microcomputer and transmitted to an imaging workstation (display device) that reconstructs the information within minutes. The image can then be transferred to a read/write CD Rom. This allows the patient to be transferred within the Medical Battalion and the X-ray images can be read at remote laptop viewing stations. The digitized data image can also be sent via a network for permanent storage.

Operational Impact

DR is a capability that is the entry point for teleradiology capturing digital images in forward locations. It will enable the transfer of patient data via LAN, radio frequency or satellite transmission to the next level of care. The DR is lightweight and mobile, decreasing the weight, cube and logistical support previously required. DR will eliminate the need for X-ray processing chemicals and safety problems associated with the chemicals.

Program Status

Digital Radiography is in Phase 0, Concept Exploration. It is being assessed to determine if the program should be classified as an abbreviated acquisition program.

Procurement Profile:

	FY01	*FY02*
Quantity:	*2*	*28*

Developer/Manufacturer

X-Ray Machine: MinXray, Northbrook, IL

Image Digitizer: Lumisys, Sunnyvale, CA

Ruggedized Container and Mobility Cart: North Coast Outfitters Ltd, Hampton Bays, NY