

# ***DMR SOLUTION FOR THE MRD & EMR ENHANCEMENT***

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## **WHITE PAPER**

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## **Intoduction**

In the early years with the usage of computers in the hospital, the hospital management was primarily involved in creating a good Medical Records system – not only for themselves but also as per the Government mandate. The "MRD File" system proved to be an effective tool to gather the patient data in individual patient files that seemed easy for the hospitals to manage. However, the sheer volume of paper works posed a major challenge for the MRD team and maintenance has become a big issue as the years progress.

With the advent of digital technology and the growth of Digital Medical Records (DMR), the process has become very easy and now the aim is to eradicate the paperworks within the hospital and to make the "MRD File" system completely electronic/digital with data security forever. "DMR" aims to compile all the patient records in a digital format that can be accessed digitally by the doctors, end users and the patient themselves.

## **Scenario**

With increased adoption of newer technologies in Healthcare sector, the Central and State governments have started to create new laws and regulations about digitization of patient records in hospitals, more so in Government run hospitals too. The successful implementation of such a system is seen as a major challenge by the hospitals.

## **Solution**

Though a challenging one but nevertheless an impossible task to achieve when an effective Hospital Information System (HIS) is used. The software must be able to provide a method to upload any of the scanned patient data into the MRD system.

Hence, all the records of a patient will be digitally stored against the patient's registration number in the MRD. This will provide the ease of accessibility, maintenance, digital sharing of records and prevent the records from the threat of being lost. Since the data is stored digitally, there are two advanced benefits that the system can provide. The digital MRD records can be tagged in the EMR module and hence can be viewed by the doctors whenever required. Another benefit is that the patient data can be posted in "Patient Portal" to provide a complete backup to the patients. To maintain confidentiality, a few restrictions can be placed on the data that are to be posted on the portal. This approach on a whole will ensure that the management aligns itself towards the regulations enforced and will also meet the growing expectations of the patients.

Scanning and Indexing of medical records in hospitals is becoming an increasingly common way for healthcare facilities to manage their records and documents. One hospital where BackBone was deployed was experiencing a growth in its medical center and, thus, its records requirements. The hospital was keeping records past their retention date, and was still accumulating more. With document storage and retrieval concerns, it was decided that digital imaging was the best way to manage and preserve their medical records. The challenge was the hospitals capabilities to scan and Index medical records appropriately to the patients UHID. The hospital approached Aosta for a solution that will reduce human error in the process.

## **Barcodes**

When we had multiple discussion with Doctors and patient care professionals, it was understood that they were interested to on the Digitalization if they could group them as Doctor Notes, Nursing Notes, Theater Notes, Labs, Discharge Summaries based on patient encounter, rather having a bunch of pages to scroll on.

Aosta came up with a solution introducing Stationery Barcodes. All the hospital stationary used for patient care was barcoded. Splitters with Stationary barcodes were manually inserted for the files chosen for scan for the day. Aosta developed and delivered customized software integrated with scanner software. The technology when introduced increased productivity scanning records quickly. Barcode recognition capabilities also made documents to be identified and indexed automatically reducing manual intervention. With Medical records online, doctors can access patient information quickly anywhere anytime, thereby reducing labour cost.

**For More Information,**

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