

## DIGITAL TRENDS IMPACTING HEALTHCARE



### TABLE OF CONTENT

SOCIAL MEDIA	4
BLOCKCHAIN	6
INTERNET OF MEDICAL THINGS	8
ARTIFICIAL INTELLIGENCE	10
DICITALLY EMPOWERED PATIENTS	12



Written by **DR GLENN CARTER** 

## SOCIAL MEDIA

#### **MULTIPLE PLATFORMS**

There are multiple platforms and these provide many opportunities to communicate and engage with healthcare professionals and patients

#### **ENORMOUS POTENTIAL**

There's enormous potential for social media in healthcare, however, it's generally under-utilised

SOCIAL MEDIA IS WIDELY USED IN HEALTHCARE

#### INTERESTING FACTS

social media is widely used in healthcare

## 88% DOCTORS

Use Social Media to research new products and treatments

## 60% DOCTORS

Say that Social Media improves the quality of care delivered to patients



#### **COMPANY AND EMPLOYER BRANDING**

CONFERENCE ATTENDANCE AND UPDATES

**DISEASE AWARENESS** 

**EDUCATION** 

**NEWS FEEDS** 

**PATIENT STORIES** 

**PROMOTING CHARITY SUPPORT** 

PUBLISHING RESEARCH RESULTS



PRIVATE GROUPS AND COMMUNITIES OF ENGAGEMENT

MICRO-CONTENT: RELEVANT AND RELATABLE

**STORY-TELLING** 

ADVANCED DATA ANALYTICS TO FACILITATE MICRO-SEGMENTATION

**VIDEO** 



### BLOCK CHAIN

#### **LINKED DATA RECORDS**

Blockchain is a secure, interconnected, distributed computing system. It comprises lists of linked data records, called blocks

#### **HIGHLY SECURE**

This highly secure technology will improve the integrity of medical data

BLOCKCHAIN IS A NEW WAY OF THINKING ABOUT DATA STORAGE

## \$20 BILLION

2024 value of the global blockchain market

#### INTERESTING FACTS

Blockchain is shaping the future delivery of healthcare

## 1000 IBM EMPLOYEES

dedicated to blockchain-powered projects

## FROM HYPE

Blockchain will be behind the technology that supports the product

- Better security
- Better trackability/traceability
- Improved supply chain management

## TO REALITY

More efficient data management eg. medical research

Electronic health records using Blockchain

## INTERNET OF MEDICAL THINGS

#### **WEB-ENABLED PLATFORMS**

IoMT are platforms of web-enabled devices that collect, send, analyse and manage data using sensors, processors, software and hardware

INTERCONNECTED
DIGITAL SYSTEMS ARE
TRANSFORMING MEDICINE

#### **IDENTIFYING ISSUES**

IoMT devices can monitor and provide healthcare providers with data to identify issues before they become critical or to allow for earlier intervention

#### INTERESTING FACTS

the Internet of Medical things is transforming the **healthcare** sector

### 80 MILLION

wearable sensors in use in the healthcare market

## \$117 BILLION

Market value of healthcare related IoMT technology

#### INTERNET OF MEDICAL THINGS | THE FUTURE

- More patient specific data in real-time
- Increase in remote monitoring, esp chronic diseases
- Increase in app development
- Digestible sensors
- Smart contact lenses that measure glucose levels



## ARTIFICIAL INTELLIGENC

#### INTERESTING FACTS

Artificial Intelligence will promote better patient outcomes

#### **MULTI-LAYERED NETWORKS**

Artificial Intelligence mimics the brain's activity using multi-layered networks

ARTIFICIAL INTELLIGENCE HAS THE ABILITY TO ANALYSE LARGE AND COMPLEX DATASETS

#### **VALUABLE INSIGHT**

Al can identify valuable connections and insight across millions of pages of text and data – from pharmaceutical discovery to patient treatment pathways

## \$600 MILLION

Health AI market

IN 2014

## BILLION Health Al market

IN 202



- Research & Discovery
- Healthcare data management analysing unstructured data
- **Diagnostics** radiology, cardiology, dermatology
- Patient treatment plans
- Precision Medicine analysing genetic information and predicting diseases and treatment responses
- The future workforce the nature of jobs will change



# DIGITALLY EMPOWERED PATIENTS

#### INTERESTING FACTS

informed patients are driving change

#### **KNOWLEDGEABLE AND NETWORKED**

Today's patient is knowledgeable and networked. They use technology to research and to make decisions

#### PATIENTS HAVE NEVER BEEN

**MORE INFORMED** 

#### **EMPOWERED PATIENTS**

Patients are empowered and are demanding innovations to meet their needs

## THE FUTURE

- More knowledgeable, networked, informed and empowered
- Using personal healthcare data (from IoMT and Blockchain enabled medical records)
- Importing it into AI programs to mine internet datasets

# 83% INTERNET USERS

look for health information on the Internet

# 50% OF THESE SEARCHES

were on behalf of someone else

- Requesting personalised treatment plans. Confirming this within private social media communities...
- ...and then presenting to the doctor with their own recommendations for treatment.
- Therefore the doctor must be knowledgeable, networked, informed and empowered.



FROM RESIDENTIAL TO HOMECARE

**MEDICAL & NURSING** 

FROM CLINICS TO HOSPITALS

**ALLIED HEALTH & MEDICAL IMAGING** 

FROM PRACTICE TO COMMUNITY

TOGETHER, WE ENHANCE LIVES.

Sydney office: +612 8877 8777 Melbourne office: +613 9938 7100  in f 🔰 🖸 🗅 **CONNECT WITH US** ON SOCIAL MEDIA

