



**RESEARCH SKILLS FOR
HEALTHCARE**

Assessment 2

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Introduction

Nowadays, research skills are fundamental, so companies can develop new services and better identify the needs of their customers, finding a solution to a problem, collecting information about a topic, reviewing, analysing, and interpreting the same.

On this report I am going to conduct a secondary research on the use of technology and communication system in the Hospital of Eastbourne.



(Eastbourne, Herald)

Eastbourne Hospital

Eastbourne District General Hospital is located on the outskirts of the city centre.

DGH has a general classification of the Care Quality Commission (CQC) of "Good".

Having a variety of medical, surgical and specialized units, DGH also has a 24-hour Emergency Service and a complete set of diagnostic services, such as Magnetic Resonance Imaging (MRI), Computed Tomography (CT), interventional radiotherapy and acute stroke services.

Services provided in the Eastbourne Hospital:

Acute Pain Management, Anaesthetics, Bereavement Service, Breast Services, Cancer services, Cardiology, Care of the Elderly Medicine, Critical Care, Dermatology, Diabetes and Endocrinology, Dietetics and Nutrition, Ear, Nose and Throat (ENT), Emergency Department, Endoscopy, Gastroenterology, General Surgery, Gynaecology, Maternity, Neurology, Occupational Therapy, Ophthalmology, Oral and Maxillofacial, Orthodontics, Orthoptics, Orthotics, Outpatient Appointment, Paediatrics, Pathology, Pharmacy, Radiology, Respiratory medicine, Rheumatology, Stroke services, Trauma and Orthopaedics and Urology.

To be an exceptional Trust Fund by 2020 many changes and improvements have been implemented during 2017/18 to increase confidence within the organization and ability to achieve important national standards. Transforming urgent and emergency care, great progress has been made in achieving the goal of assessing, treating or referring 95% of patients within four hours. To identify and support patients at the end of their lives, reduce falls and pressure ulcers, detect and manage infections, a quality management system has been implemented. There was an increase in audits on the care offered and few complaints were referred. Patients giving a very high rate in their care experiences during the year, improved NHS choices rating scores.

ESHT staff members have supported many advances over the years, including pioneering treatments and technology that are now routinely used in hospitals across the UK. Just last year, the Trust worked with patients, universities, industry and others to come up with new ideas and use them to more effectively care for patients. For the best use of the £850 million spent each year on the health and care of the people of East Sussex and to ensure that people receive proactive, united care, supporting them to live as independently as possible and achieve the best possible results, a new care model is being built that integrates our entire system: primary prevention, primary and community care, social care, mental health, acute and specialised care (NHS, East Sussex).

DGH Digital Transformation

On NHS news in 31 March 2021, trusts where going to receive a funding of 6 million pounds over the next three years to support digital transformation. To sustain digital transformation in the SNS, the Digital Aspirant program will accelerate the acquisition, implementation and capture of technology that is needed. This funding will be used for several community services projects, such as the development of robotic process automation (to automate the execution of repetitive process tasks), video consultation, upgrade to N365, optimisation of the Electronic Patient Registry (EPR) and the launch of Auto Planner in Sussex. The digitization of the Intermediate Care Unit at SCFT has been completed, with the next step being data transfer and sharing between hospitals and community teams to improve resilience throughout the organization. The release of digital patient records through Patients Know Best, an update of wi-fi access points on community websites and additional support to enable virtual consultations is included in the ESHT.(NHS News)

“The importance of digital technology in providing healthcare has increased massively in recent years and it will continue to do so as new technologies are developed”.(Andy Bissenden)

“This has been a very exciting opportunity, and we’re happy to be working with ESHT on a Sussex wide endeavour. We are ambitious to use digital technology radically to transform our services and improve care for our patients at SCFT”. (Diarmaid Crean)

Nervecentre



Eastbourne DGH

The “Nervecentre” allows information about a patient's visit to the department to be stored electronically, with staff using mobile phones and tablets provided by the organization to enter clinical information, so that it is always available when a clinician needs them, and not waste time looking for paper notes. This program will give an overview of all activity within the department as well as automatically give an alert when the state of any patient is deteriorating. Patient's notes will remain digital and will then move with them from the Emergency Department during their journey through the hospital, including investigations and prescribing, integrated into the system so that all information about their care be managed via the one system. (NHS news, 17/03/2021)

“In the short time since we introduced Nervecentre to our Emergency Departments, we’ve already seen many benefits. The system is easy to use and gives us clear and accurate real-time information about our patients. Having all the clinical information we need easily to hand saves time so we have more time to spend with patients, which ultimately means we can provide a better overall experience for them.” (S.H.17/3/21)

“The implementation of our Emergency Department software was a success... I look forward to seeing all the efficiency and patient safety benefits that come from your new ED system”. (D.G. 17/3/21)

PerkinElmer

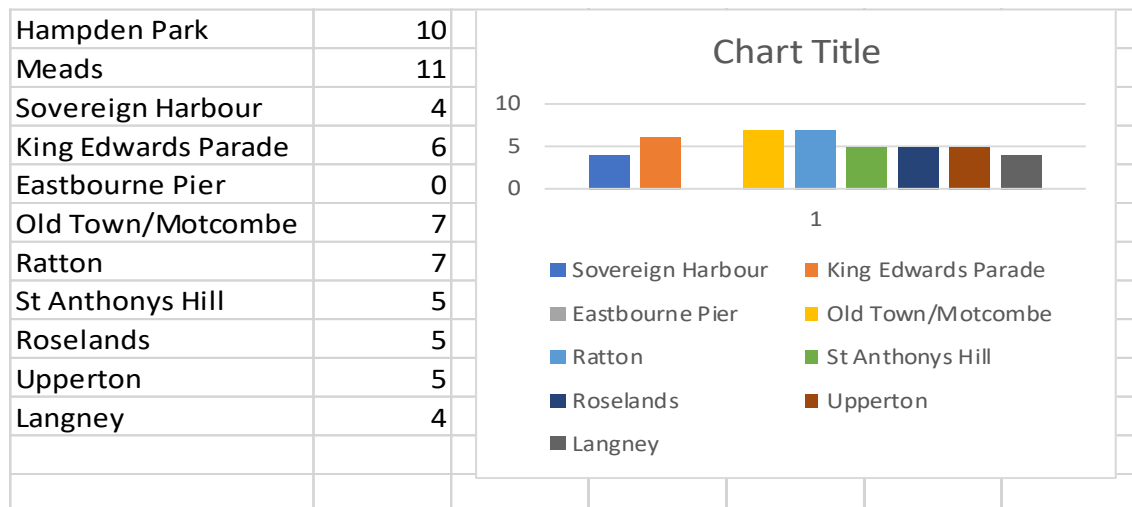


The new Covid high-volume testing machine is called "PerkinElmer", has the ability to perform about 500 tests of swabs in the nose and throat per day, thereby increasing the number of tests by increasing the turnaround time for the results of the same for patients. thereby reducing the number of tests that need to be sent to an off-site lab. Previously, the hospital's internal technology was able to track up to 40 Covid samples a day, with the remaining tests sent to a laboratory in Southampton, but now this machine provides unique test results in less than an hour and is operational 24 hours a day, seven days a week.

“These are game changers for the Trust. They significantly speed up our turnaround time and capacity for Covid testing of patients. With a quicker diagnosis, we know which wards our patients need to go to so we can provide the best care for them in the right place. This rapid diagnosis will help our teams to plan for surgery and in some cases help with more difficult discussions on the next steps of patient care. Previously, our in-house testing was extremely limited with the vast majority of tests going to Southampton with the obvious delay in the physical transportation of the sample to the laboratory. Our turnaround times will be within 24 hours for all swabs, faster for new admissions, enabling us to identify positive patients sooner and act upon on the result. This will help us minimise the opportunity to spread Covid on to other people and allows us to contain it. We were previously sending tests away which meant it could be up to 48 hours before we knew the results.” (J.N.15/1/21)

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The number of covid-19 deaths in each area of Eastbourne between 1/3 to 31/5/2020



(G.S. 16/6/20)

Funds for digital technology and communication systems



(NHS)

In 2020, to make Radiology Digital at Eastbourne DGH, the Charity raised £430,000 to replace three fixed and one mobile X-ray machine with four Digital X-ray machines to facilitate faster patient diagnosis, reducing patient exposure to radiation. Being more eco-friendly and cheaper than the existing X-ray machines (they do not use film plates).

In 2018 was spend £250,000 on three Projects:

- £52,000 for a Fibreoptic Endoscope for the Swallowing Disorder Clinic
- £98,000 for an Echocardiography Machine for the Cardiology Department
- £100,000 for the replacement of dental surgery equipment for Maxillofacial and Orthodontic Department

Using sound waves to create moving images of the heart, the new Echocardiography machine shows the size, structure and movements of different parts of the heart that is used to diagnose heart problems, with patients then being treated within the department or referred for urgent surgery in a specialized cardiac surgical unit.



(NHS)

The Fibreoptic Endoscope is being used by speech therapists at the Swallowing Disorders Clinic to assess the patient's swallowing difficulties and see if the cough reflex is effective for cleaning the airways, thus allowing a safe feeding and swallowing plan for each patient to be made.



(NHS)

The Maxillofacial and Orthodontic Department has been completely refurbished to improve the layout of the unit and the FoEH provided new furniture and equipment.



(NHS)

The Friends, in 2017, raised £386,000 for a CT scanner for New Radiotherapy Unit, which allow cancer patients in East Sussex to be treated in Eastbourne rather than have to go to Brighton.



(NHS)

In 2016, £500,000 were raised for a CT scanner for Radiology (Biggest Stroke Unit in the country, the renowned Pevensey Unit), to create an advance technological Centre of Excellence for stroke and cancer patients in Eastbourne. This technological advancement CT Scanning is vital for the commitment to patient care and treatment, providing speedy and accurate results – vital for stroke and cancer diagnosis, giving a wealth of clear and specific information, reducing the need for exploratory surgery, helping plan for surgery, giving better outcomes for patients.

In 2015, £1 million was raised for the “Da Vinci Surgical Robot”. Guided by the surgeon, the “robot” provides a greater degree of accuracy and precision and at the same time is much less tiring for the surgeon – both physically and mentally, on the different surgeries: Laparoscopic, Prostate Cancer, Kidney or Bladder removal, and other Pelvic and Colorectal Cancers. (NHS)



(NHS)

Resume

Especially in the last six years there has been a great development of digital technology and communication systems, facilitating the work of health providers and improving the level of life of patients

References

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Andy Bissenden, Associate Director of Digital at ESHT, 31/12/21

Diarmaid Crean, Chief Digital and Technology Officer at SCFT, 31/3/21

Dr Shaymau Habeeb, Chief of Emergency Medicine at ESHT, 17/03/21

Debbie Guy, Director of Operations at Nervecentre, 17/3/21

Dr Joel Newman, Laboratory Director, and Clinical Lead for the Sussex Pathology Network, 15/1/21

<https://www.eastbourneherald.co.uk:>

[Ginny Sanderson](#) Tuesday, 16th June 2020, 10:12 am

<https://www.friendsdgh.org.uk/>