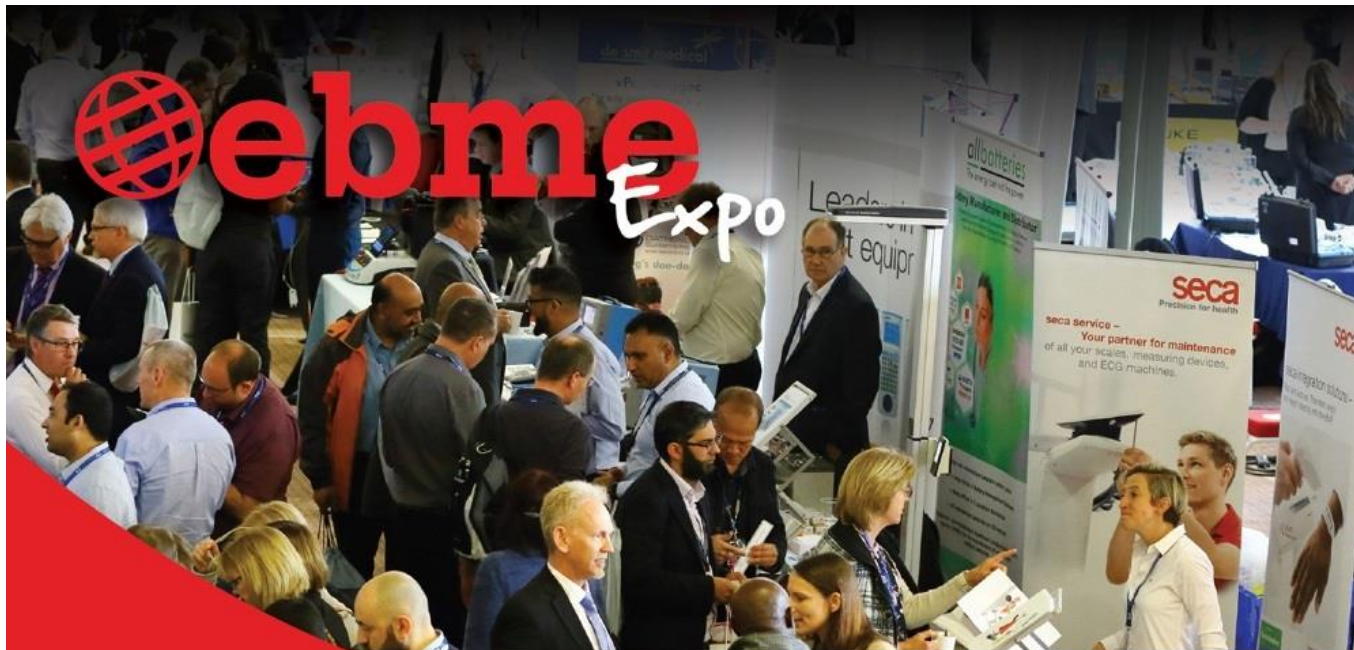


# David Mulvey: Diagnostic imaging maintenance

## Radiology – Engineering Support SRFT – Get the picture?



🌐 APRIL 3<sup>RD</sup> - 4<sup>TH</sup> 2019

🌐 ARENA MK, MILTON KEYNES


🌐 75+ EXHIBITORS


🌐 15+ SPEAKERS

**WELCOME TO THE EBME EXPO 2019**

**WITH THANKS TO ALL THE EXHIBITORS  
FOR SUPPORTING THE EBME EXPO**

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# The Radiology Department -

- X-Ray - 8 rooms, 5 Mobiles, 10 Image Intensifiers ('C' Arms), 1 Lithotripter, 1 'O' Arm (Surgical Guidance system).
- CT (computerised tomography) - 3 Rooms currently – A further 3 within the next two years
- MRI (Magnetic resonance imaging) - 4 Rooms currently – A further 2 within the next two years
- Nuclear Medicine Scanner (Isotopes), - \_\_\_\_\_2  
Gamma Camera systems
- Angio/Fluoroscopy – 4 CT scanners

# The Radiology Department - Staff

- 24/7/365 operation
- ~ 250 staff members
- 90+ are Radiographers
  - Specialist Radiographers not only operate equipment but also “Report” on X-Rays, CT’s and MRI’s
- Radiologists and Consultants
- Administration and Clinical support staff

# Radiology Equipment X-Ray



Standard X-Ray Room



Computerised Radiography Reader

# Radiology Equipment X-Ray



Mobile X-Ray  
Machine



Image Intensifier ('C' Arm)

# Radiology Equipment X-Ray

## Digital Radiography Detector - How much £?



# Radiology Equipment

## MRI Magnetic resonance imaging

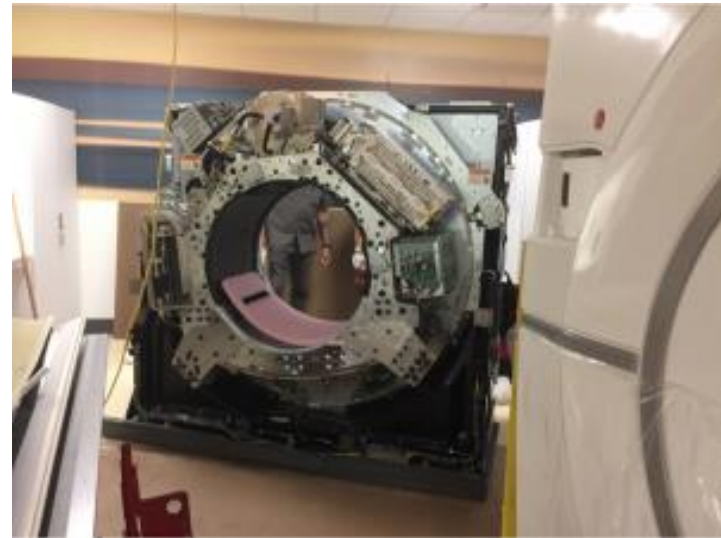


- Huge Cooling and Power Systems
- All individuals checked before entering room
- Expensive none Ferris tools required

# Radiology Equipment

## CT (computerised tomography)

- Rotational X-Ray building detailed image of internal anatomy





# Radiology Equipment

## Nuclear Medicine Scanner (Isotopes),

- Rotational Scanning to detect Radio-Isotopes that have been inserted into the patient



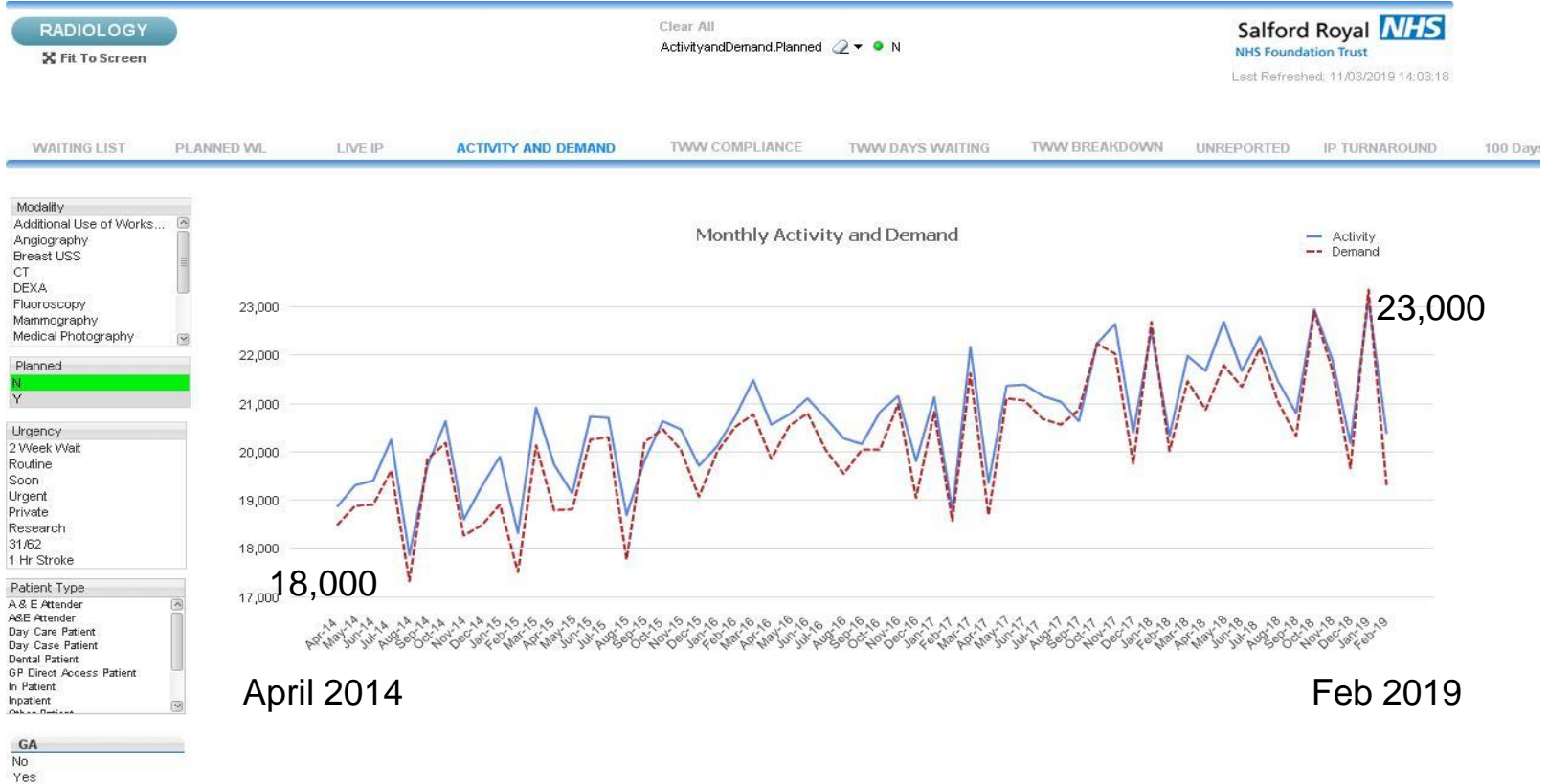
# Radiology Equipment

## Angio/Fluoroscopy

- 2 X-Rays that produce a 3D image



# It just gets busier and busier.....



# Radiology Major Modalities Failure rates

MR		HH	2015	2016	2017	2018	Calls since last IGSM 18th August 2018	Calls between 1st Dec 2017 to 30th March 2018
	Philips MR	3710	30	24	14	14	5	5
	Siemens MR	7641	20	14	10	24	3	9
	GE MR	25840	33	30	30	16	4	6
<b>CT</b>								
	A&E CT	27073	27	11	23	26	7	12
	Neuro CT	23204	12	8	10	14	5	9
	Body CT	3664	16	13	13	4	0	2
<b>X-Ray</b>								
	A&E YSIO	27074	18	17	12	18	6	7
	1 - RAD 1	04128	6	3	5	0	0	NA
	2 - RAD 1	04036	5	8	9	6	1	NA
	3 - RAD 1	07029	7	9	8	0	0	NA
	4 - RAD 1	7222	24	10	3	11	3	NA
	5 - RAD 1	7223	8	8	2	6	4	
	2 - RAD 2	00690	11	5	9	6	2	NA
	3 - RAD 2	00691	1	1	3	0	0	NA
	4 - RAD 2	00692	9	4	1	4	0	NA

# Radiology Technical Support

## Why? What's in it for you?

- The opportunity to work in one of the most technically demanding areas of the hospital.
- Be involved with some of the most progressive medical innovations there are.
- Develop 'REAL' management experience of Service Delivery and Contract Management.

# Radiology Technical Support

## Why? What's in it for you?

- Develop and use your Anatomy and Physiology understanding to interpret technical problems
- Get to know individual systems and devices (Scanners & Machines) in ways that give you a solid understanding of the faults and servicing needs.
- Feel as much a part of the Radiology Team as you do the Biomed Team

# Radiology Technical Support

## Why? What's in it for the Trust?

- Single Central Point for all Maintenance & Repairs
- Contract savings in combining Service Contracts and experienced effective Service Contract Negotiation
- Effective scrutiny of Service Suppliers (Service reports, updates and response times)
- Resolving of minor faults with the telephone support of Suppliers
- Maximising 'UP time' of systems and equipment

*“The MEMs service supports the efficient delivery of radiology services at our Trust. The time saved from a clinical and managerial perspective is considerable; with particular support arranging preventative maintenance, repair following breakdown and contract management. I value the service provided and our whole radiology team have excellent relationships with the MEMs team who support us.”*

**Jonathon Priestley**  
**Radiology Business Manager**  
**Salford Care Organisation**





Thank you for listening  
Are there any Questions?

