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DEC 2015

SINARAN DEC

MALAYSIAN SOCIETY OF RADIOGRAPHERS

Affiliated to The International Society of Radiographers and Radiological Technologists (I.S.R.R.T.)

MSR President's Message



Dear Readers/Radiographers,

First and foremost I would like to apologize for the lateness of these articles. We have not had publications in our esteemed MSR website for quite some time and finally this time we managed to have several articles written by our members.

Muhammad Faizal Abdullah

Senior society members and radiographers were familiar with our now defunct publication, the "MAJURAY". The demise of our one and only publication is a sad day for our society. We need to have pride in our work, our profession, our society and we need to show that pride and commitment through our writings, research and achievements. We need to document and share those through our own publications or in other publications which are of repute, but we need to start putting those thoughts to words and have them published or uploaded onto our web magazine. Let us start with this edition.

"We need to have pride

I would like to thank the contributors to this issue and encourage others who are interested to contribute to this publication of ours. I am positive that there are many out there who are able to write, so start with something simple.

Happy writing!!

President
The Malaysian Society of Radiographers
(2015-2016)

MSR Website
<http://msradiographer.org/>

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MSR Advisor's Message



Chan Lai Kuan

Dear members and friends

Greetings from me and MSR.

First of all I would like to inform all MSR members and friends that I am no longer the president of MSR. During the 2015 MSR 45th AGM, Mr Muhammad Faizal Abdullah is elected and currently serves as the President of MSR for the year 2015-2017. I am now the advisor and academic coordinator for MSR-organized academic events.

I am honoured to be asked to say a few words for this 2015 Special Edition Newsletter. I am happy that we are still able to sustain the publication when it has become a late issue and also as a special edition since 2014. At the same time I am rather sad that I have not been able to keep my promise to maintain the two publications per year, only managed to do it in 2012 and 2013. I hope in 2016, I will help to ensure that our publication resume its routine as promised. I will source articles for the newsletter and with the newly elected editorial committee. I sincerely hope things will change for the better.

I would like to take this opportunity to encourage our members to submit articles to the MSR newsletter. It can be in English or Bahasa Malaysia. Share with us your experience, your knowledge and skills or even the challenges, sorrows and joys in your daily work. There are so many things in a radiographer's life that you are able to share.

*"Share with us
your
experience....."*

I sincerely hope that we are able to use our newsletter as a source to keep members updated to what is happening around us, to learn new things from members who have the opportunity to do attachment courses overseas or local etc. Just send us your photos and write a short report. Many will benefit from this little contribution you do. Do not worry about your language. We will have someone to edit for you. Write regardless of language; after all we are not professional writers but radiographers and the most important thing is we want to share. Please do start just with that notion, all will become better and better as time goes by. Please just take that 1st step. Let us together write for our newsletter.

All the best and God Bless.

Editorial Board

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MAKLUMAN

Satu seksyen Bahasa Malaysia akan diwujudkan didalam SINARAN. Juru X-ray diagnostik dan terapi dialu-alukan untuk menghantar rencana yang berkenaan. Sila email kepada ahli sidang redaksi yang disenaraikan. Terima kasih.

Radiographer and the Law

On the 28th and 29th of March, 2015, the Malaysian Society of Radiographers hosted the first scientific meeting for 2015 and the 45th Annual General Meeting at the Royal Hotel, Kuala Lumpur. The theme for this event was 'Radiographer and the Law' which included a number of interesting presentations.



Dr Richard Price

A total of 160 radiographers attended this two day event and it proved to be a great success. The scientific meeting was packed with clinical and non clinical areas that looked into the legal and professional considerations for imaging and radiotherapy practice. The theme paper was delivered by Professor Dr Richard Price, Dean School of Health and Social Work, University of Hertfordshire, United Kingdom. His presentation was very insightful giving a glimpse of what is expected as a healthcare professional, and other relevant issues.

From this presentation, the Law of TORT is an unintentional violation on a person's right, usually due to negligence whereas crime is an intentional violation of someone's right. Another component presented that caught the attention was the BOLAM test which states standard of the ordinary skilled practitioner exercising and practicing to have that special skill whereby he/she need not possess the highest expected skill. These terms are not often heard but are widely being used and gaining popularity so it is timely for us radiographers to be abreast with the meaning of these terms.

"the importance of the presence of chaperone and ."



Dr.Nizam Ishak

The second speaker Dr.Nizam Ishak, from the Complaints Unit, Medico legal Division, and Ministry of Health Malaysia spoke on Medico-Legal and Radiography. His presentation focused on the importance of the presence of Chaperone and Proper Explanation while conducting a radiography examination. This presenter presented the various medico-legal components and risks affecting the radiographers' profession.

Morning tea was a great opportunity to catch up with old friends and make new ones. The next talk was delivered by Mdm. Chan Lai Kuan the immediate past President of the Malaysian Society Radiographers. As Mdm. Chan was also a former Senior lecturer at the Allied Health College, in Kuala Lumpur and Johor Bharu it brought fond memories, it definitely would have brought fond memories to most of her former students who were now qualified radiographers. She was one lecturer who delivered her lessons with so much of gust and passion. Mdm. Chan Lai Kuan, delivered a very informative talk on Forensic Radiography. Mdm. Chan's talk was very in depth in giving added knowledge to what was already known to most fellow radiographers.

Radiographer and the Law

Following on, was Mdm. Zaidah Maspin, who is a Radiographer at the Hospital Kuala Lumpur and also holds the post as the Treasurer of the Malaysian Society Radiographers. She presented a talk on the Role of CT in Forensic Medicine, the HKL experience. This presentation was very interesting as Mdm. Zaidah was presenting an area which was being researched by herself.



Associate Professor
Dr. Saiful Nizam

Her presentation was later complemented by Associate Professor Dr. Saiful Nizam bin Abdul Rashid, a radiologist from the University Putra Malaysia (UPM) who delivered a talk on Body Packers. It was most interesting how human beings were willing to do anything for the sake of cash. These mules were willing to consume and undergo various procedures to have prohibited substances in their body to be delivered to the recipient. By doing so these mules, if caught were subjected to various scrutiny by the authorities to identify the substance, the agent who was involved and etc. His presentation was unique as the information shared was often not revealed by the authorities.

*"Body
Packers"*

The presentation just before lunch was delivered by an officer from the Malaysian Commission of Corruption Services. The title of his presentation was Corruption and Radiographers. Though most of us may assume that it was not common for radiographers to be embroiled in corruption, but the possibilities are endless.

After a full morning of a wide range of topics that were in line with the theme, we broke for a well deserved lunch. The lunch spread was fantastic. The variety of local and international cuisine was a good treat for the participants.

Following this the Malaysian Society Radiographers, the Annual General Meeting was held after lunch. The President, Secretary and Treasurer presented key reports on the previous 12 months of activities for the association. As per society's constitution, elections was held and the following are the office bearers for the period of 2015 -2017 who are namely Mr. Muhammad Faizal bin Abdullah (President); Mdm. Pushpa Thevi Rajendran (Vice President); En. Mazli Mohamad Zin (Secretary); En. Zul Iskandar (Assistant Secretary); Mdm. Zaidah Maspin (Treasurer); Other ex-co committee members elected were Mdm. Krishnaleela Purushotaman; Mr. Andy Goh; Mr. Mohamad Norman Mohd Nordin and Mdm. Norlida Ariffin who would later be assigned to their respective portfolios.

Radiographer and the Law

The second day was as power packed as the first day with interesting topics to tickle our minds on a Sunday morning. The first paper for the day was again presented by Professor Richard Price. As he was from the academic side of the profession, thus it was appropriate for him to deliver a talk on Writing For Publication. As he is an experienced researcher, his presentation was extremely useful and enlightening for radiographers intending to write up a journal article.



Dr. Shanthini
Arasaratnam

The next presenter was Dr. Shanthini Arasaratnam, Breast Radiologist from Hospital Kuala Lumpur who gave a presentation on Incident Reporting and Legal Implication. Her presentation was excellent as it she included many examples within the radiology community that radiographers could appreciate. The second last presenter for this event was Mr. Andy Goh, a lecturer at the College of Radiography, University of Malaya who spoke on Role Models in Professionalization of Medical Radiation Practitioner. His presentation was different exposing radiographers to the models of professionalization within the radiographers' profession.

The last talk was delivered by a lawyer, Mr. Nik Mohd Noor, Lawyer from the Malaysian Attorney General's Office who gave a fantastic presentation on Negligence and Law of Tort. His presentation was remarkable as he shared many real cases that involved the radiographers' profession. It was shocking but true scenarios that were revealed brought realization to all radiographers present at the event.



Mr. Nik Mohd Noor

The two day programme was concluded by the out-going President Mdm.Chan Lai Kuan and the in-coming President, Mr. Muhammad Faizal who delivered a short speech. At this juncture the Malaysian Society of Radiographers would like to take this opportunity to thank all members who attended and supported the event and made it a success.



MSR EXCO 2015 - 2017

Report on 23rd Annual Thai Society of Radiological Technologists Conference

The 23rd Annual Thai Society of Radiological Technologists Conference commenced on the 29th April 2015 and lasted for 3 days up to the 1st May 2015. This conference was organized by the Thai Society of Radiological Technologists (TSRT) at the Eastern Grand Palace Hotel, Pattaya, Thailand. In conjunction with this conference was The First ASEAN School of MRI Technology "Physics and Technical Concepts of MRI". The MRI lectures were delivered by three distinguished speakers who were Dr. Michael Grey, Dr. Suwit and Dr. Napapong. Some of the topics included were scan parameters, contrast agent, unit component and fast imaging sequence.

Madam Chan Lai Kuan and I represented Malaysia at this conference. We left Malaysia on the 27th of April 2015. As we arrived a day earlier, we visited the Nong Nooch Botanical Garden in Pattaya. Later that day, we were invited to have dinner with all the international participants at the hotel. As I got acquainted to some of the international participants, Madam Chan was catching up networking with her international friends.

The conference began with an opening ceremony that was absolutely colorful and exciting. The President of TSRT, Mr Sala officiated the conference and gave his opening remarks. This was followed by the honorary lecture from Dr. Supoj Angkaew on '50 Years of Radiological Technology in Thailand'. After tea break, the conference continue with lectures by speakers from the United States, Hong Kong, Singapore and China who spoke about education, sub-specialty training, qualification and requirements to bwork at their respective country.

*"50 Years of
Radiological
Technology
in Thailand"*

The afternoon session was split into two sessions which were namely scientific paper presentation and the MRI course. Here I had the opportunity to present my research on 'Investigation of Effectiveness of Lead Free Protection Drape in Reducing Occupational Radiation Dose in Interventional Radiology'. It was a good experience to present my research paper internationally. Later that day a simple dinner banquet was planned for the international participants at the hotel. During this time, I mingled with participants from Taiwan, Macau, Hong Kong, Japan and etc. Most of them are very experienced in the field of medical imaging. After the dinner, we had the opportunity to have a relaxing foot massage.

The schedule was packed with various topics during MRI courses on the 30th of April 2015. At night there was the Gala Dinner at the main conference hall. The Participants were required to wear their traditional costumes. There was a karaoke session, lucky draw, traditional costume beauty contest and Thai traditional dance performance. The final activity during the Gala Dinner was the Gift exchange between the TSRT and presidents of various countries who were at this conference.

Report on 23rd Annual Thai Society of Radiological Technologists Conference

On the last day of the conference (1st of May), the MRI course started in the morning, followed by a simple closing ceremony and later we adjourned to lunch. We bid farewell to the participants from other countries as most of them were leaving for Bangkok. The organizer had arranged a direct shuttle to the airport for us and we left at 3pm. We boarded the flight at 8:50pm to return to Kuala Lumpur, home sweet home.

I will always treasure the moment spent in Thailand as it was my first international conference outside of Malaysia. The conference gave me a great opportunity to rub shoulders with the leaders from the various countries in the field of medical imaging. I realize there is still so much for me to learn and experience. Hence I am looking forward to joining many more conferences to share and as well gain knowledge.

Prepared By Lina Ko Xiang Wei
Student of Medical Imaging Degree Programme, University of Malaya

Report on 23rd Annual Thai Society of Radiological Technologists Conference



Karaoke session by the Japanese delegate



Thai traditional dance by Thai student



Five finalist for traditional costume beauty contest



Speakers from Thailand - Dr. Napapong and Dr. Suwit



JART (left) & TSRT President (center)



Speaker from USA - Dr. Michael Grey

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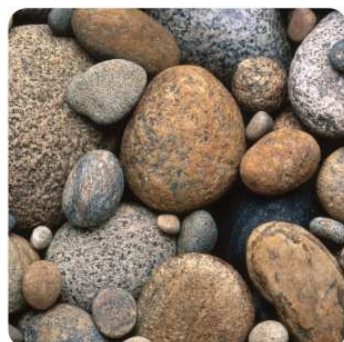
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The Standard Operating Procedure In Diagnostic Radiography

SOP or the full term is standard operating procedure. What does it mean? Standard Operating Procedure is defined as having a set of instruction in order to perform a job safely without adverse impact on the environment and at the same time meets the regulatory compliance standards.

Why do we need to have SOPs?

The main objective of having a SOPs is to direct the individual/ employee to have a direction of performing a task/ procedure/processes/job properly or accurately.

It is a beneficial tool in the event of an incident to determine where the incident could have occurred due to non compliance of the set SOPs.

Hence a well written SOP shall provide the following information :

1. Standardizes the processes
2. Provides adequate information to perform a task
3. Ensures the processes are performed correctly and consistently
4. Meets regulatory compliance
5. Serves as a guide for employees without having to ask for help

"holistic approach"

How do we set a standard?

It should take a holistic approach to client care and must comply with the standards set by the professional bodies that expresses the codes of conduct and philosophies in health care.

In order to get started we need to firstly envision the bigger picture whereby we need to have some understanding on how we would like to lay out the SOPs, total number of SOPs, baseline policies pertaining to each SOPs and its related regulatory requirements. After having an understanding of the SOP, so now it is time to develop it.

To do this you need to set up a group that are similar in attitudes and understanding and meets at regular intervals. The agenda for each meeting should be clear. During each meeting the members of the group should discuss on the compiled records and documents and decide what can be utilized to develop the SOPs.

"similar in attitudes and understanding"

The Standard Operating Procedure In Diagnostic Radiography

A good SOP shall meet the following criteria:

1. Provides all the necessary information to perform a task
2. Specific for a equipment to be used in a procedure
3. Should be detailed
4. Provides quality control procedure
5. Accurate
6. Easy to update
7. Easy to comprehend able to accomplish the purpose for which it is written for the Allied Health Sciences Division

The Allied Health Sciences Division is a body involved in helping various Allied Health Professions to develop their SOPs. There has been work in progress since 2014 for the diagnostic radiography profession in developing SOPs in various procedures such as general radiography and special examinations. The SOPs that are developed are compiled in a booklet and it is divided to two parts which are identification processes and the procedure itself. Besides that, there are related work instructions and documents that are attached into each SOP. These serve as a complimentary guide in developing SOPs. In conclusion the developed SOPs should serve its ultimate goal which is to ensure the users have enough information to complete the task/job/procedure/processes without having to seek for help or referring to other documents. Finally the **‘Best Written SOPs will fail if they are Not Followed’**.

*"users have
enough
information to
complete the
task"*

Prepared By :

Pushpa Thevi Rajendran

Chief Radiographer

Ampang Hospital

Vice President of the Malaysian Society of Radiographer

The 2015 Radiation Protection Course At Ampang Hospital

Radiation Protection Awareness Course for the State of Selangor was held at the Ampang Hospital auditorium on the 4th and 5th of September 2015. The course was jointly organized by the Diagnostic Imaging Department of Ampang Hospital and the Radiation Safety Section, Selangor State Health Department.

The main objectives of this course were:

1. To raise awareness in the Radiation Protection Program amongst radiation workers in the State of Selangor.
2. To improve knowledge in radiation protection activities using radiation equipment in ward (s) and operating theater(s).
3. To provide exposure on emergency preparedness/ responses concerning radiation emergency.

Under the Selangor Radiology Programme, Selangor State Health Department provided the allocation for this event. The provided allocation was for the participants from the seven major hospitals within Selangor. Participants from the Health Clinics also took the opportunity to attend this event as the topics were interesting. More than 100 participants attended this course.

This course was officiated by the State Health Director, Dato' Dr. Balachandran A/L Satiamurti who also delivered an opening speech. This was later followed by the welcome address delivered by Dr. Vijayalakshmi Krishnapillai, the Head of the Radiology services in Selangor. Heads of Diagnostic Imaging Departments and Chief Radiographers from the seven hospitals attended the opening ceremony of this course with the intention of supporting this event.



At the auditorium



Senior Radiographer present on
mobile Radiography

The 2015 Radiation Protection Course At Ampang Hospital

The two day course, focused on various aspects in Radiation Protection which as follows:

1. Current Update on Medical Legislation under Act 304
2. Digital Mammography: Update in Technology
3. Radiation Protection Policy for the State of Selangor
4. Personnel Dose Monitoring
5. Medical Examination under Radiation Medical Surveillance
6. Quality Control Tests on Radiation Modalities
7. Guidelines and Tips on Ward Radiography, OT Radiography & Trauma Radiography
8. Radiation Emergency Preparedness
9. PPE in Radiation Protection
10. MRI Safety

The speakers for these topics were radiologist, medical physicist and senior radiographers who shared their knowledge and insight into their chosen topics. Besides these lectures we the organizing committee also set up posters on radiation protection and had a photo booth for participants.

The feedback obtained, showed most participants found this course to be beneficial, educational, would recommend it to be carried out annually and have hands on quality control tests. We have taken into consideration the feedbacks received however some requests are impossible to fulfill. This course could not have taken place without the coordinated teamwork of the staffs of both departments to make it a success. Attached are some pictures taken during the course.

Prepared By :

Pushpa Thevi Rajendran

Chief Radiographer

Ampang Hospital

Vice President of the Malaysian Society of Radiographer



The Theme : Safe Practice in Daily Task

Report On the 2015 HTAR Breast Imaging Course

The 1st mammography course for Tengku Ampuan Rahimah Hospital (HTAR), Klang was held at the Permata Auditorium on the 23rd and 24th October 2015. This course was jointly organized by the Diagnostic Imaging Department, HTAR and the Diagnostic Imaging Department, Ampang Hospital.

*"Perfect,
Good,
Moderate
Inadequate "*

The three main objectives of this course was:

1. To create awareness among the radiographer at the hospital about their roles and responsibilities in the mammography examination.
2. To increase knowledge and skills of positioning in the mammography examination.
3. To create awareness about the importance of improving the quality of mammography images so that it meets the criteria of Perfect, Good, Moderate and Inadequate (PGMI).

The allocation for this event was from the Selangor State Health Department for participants from the six major hospitals with mammography facility in Selangor. Fifty participants from these hospitals were identified to participate in this course.

This course was officiated by Dr. Annie Nelson, the Deputy Director of HTAR who also delivered a speech. The welcome speech was delivered by Dr. Vijayalakshmi Krishnapillai, the Head of the Radiology services in Selangor.



Organizing committee and invited speakers

Report On the 2015 HTAR Breast Imaging Course

In order to meet the objectives of this course, the course was divided into two components which were mainly lectures and also the workshop. The lectures were basically on breast imaging and the workshop was on improving the positioning skills especially in the basic views in mammography. The lecturers were delivered by senior radiologist and senior radiographers who presented on various topics in breast imaging. The invited radiologist presented on Anatomy of the Breast, BIRADS categories and Breast Density and Sonography features of the Breast Lesions whereas the radiographers presented on Basic Positioning in Mammography, Problems Solving Views in Mammography, Common Faults in Mammography and Standard Operating Procedure (SOP) in Mammography. Besides this, there was a presentation from the industry on the Updates in Mammography and the final presentation by the HTAR Counselor on Soft Skills and Patient Care in Mammography.

"improving the positioning skills"



Briefing on the Mammography workshop 2015 in HTAR, Klang



Facilitator briefing during workshop

Report On the 2015 HTAR Breast Imaging Course

As for the workshop, it was held at the Diagnostic Imaging Department, HTAR on Saturday morning the 24th of October 2015. The facilitators of this workshop comprised of radiographers from both HTAR and Ampang Hospital. There were three stations which were namely Mammography Hands-on station, PGMI station and Quality control tests station.

From the feedback obtained, most participants found this course to be educational, wished there was more time on positioning, request for hands on quality control tests session and etc. Participants were satisfied and hoped for this course would be carried out in the following year. This success of this course was because there was co-operation and hard work amongst the radiographers and radiologist from both HTAR and Ampang Hospital.

Prepared By :

Pushpa Thevi Rajendran

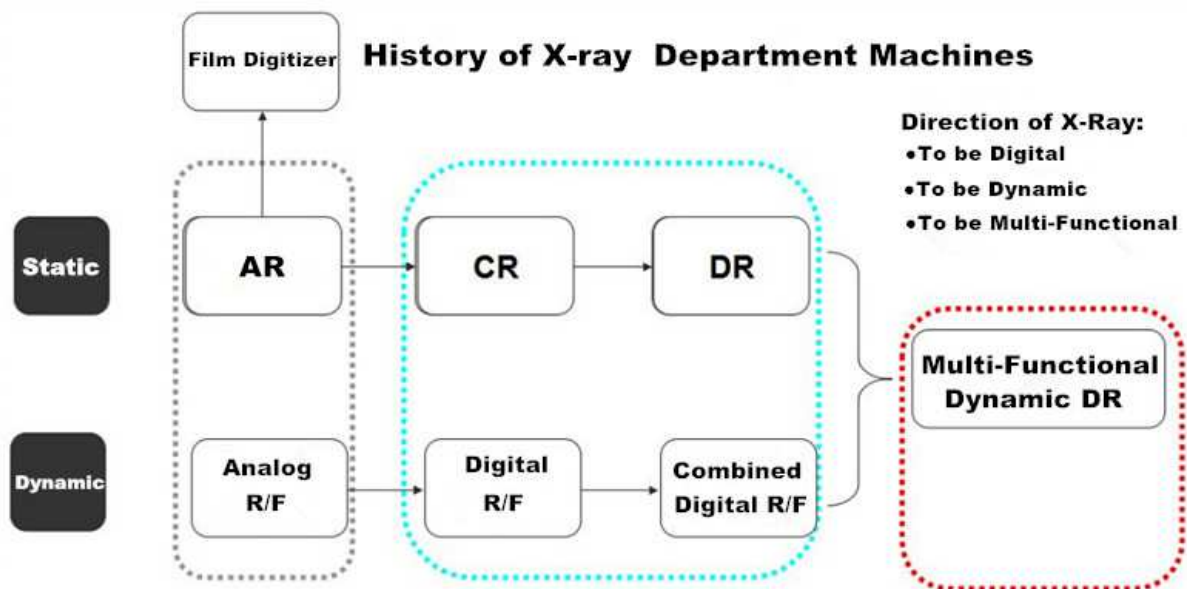
Vice President of the Malaysian Society of Radiographer



Booth in front of the mammography suite

Dynamic DR-Latest Medical X-Ray Technology

With development of science and technology, medical radiography system has moved from analog to digital and from static to dynamic. At present, multi-functional Dynamic DR has become the hot latest product in hospitals.



What is exactly dynamic DR?

The dynamic DR is claimed to be a multi-functional machine with the above functions that generally need three machines to achieve. From current market, products like Siemens, Shimadzu and Angell dynamic DR all share the following features:

1. Real time spot film
2. No more image intensifier for fluoroscopy
3. Large rectangle fluoroscopy view 17" x17"
4. Over 6M pixels high resolution
5. Stitching program/ long bone

Dynamic DR-Latest Medical X-Ray Technology

How does this work?

Dynamic DR is the latest technology, whose one dynamic detector only will do both image taking and video recording. Thus, it can transfer directly and immediately from general digital radiography machine (DR) to digital fluoroscopy machine without any change in software or hardware. In that way, it can enroll functions of three machines into one dynamic DR machine. When dynamic is used as a general DR, it can do:

1. Image quality the same as general DR, 9M pixels high resolution
2. Unique mechanical structure, much easier to get all body positions, especially angle positions .



3. Stitching Program / Long bone



Stitching Program

Dynamic DR-Latest Medical X-Ray Technology

When dynamic is used as a general DR, it obviously has the following advantages:

1. Large rectangle view 17" x17" - less total dose, less misdiagnosis.



Dynamic DR 17x17 Vs general small round view



2. Real time 9M pixels spot film shooting –capture and record exactly what you see during fluoroscopy.



Dynamic DR-Latest Medical X-Ray Technology

Considering the above features of dynamic DR, it can serve many cases better than current systems. These cases include but not limited to:

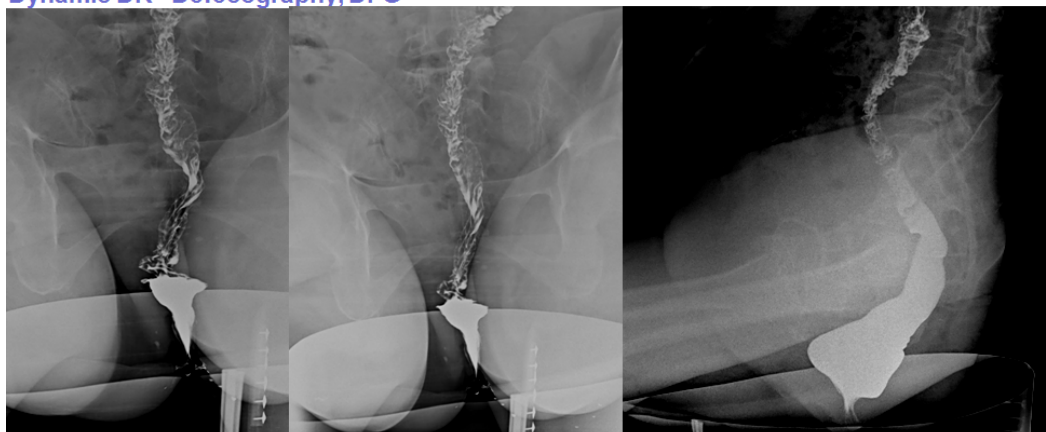


Hard Position like Hidden Rib Fracture
Best angle get by real time spot film shot
during patient slow move and fluoroscopy

Dynamic DR- Gastrointestinal



Dynamic DR- Defecography, DFG

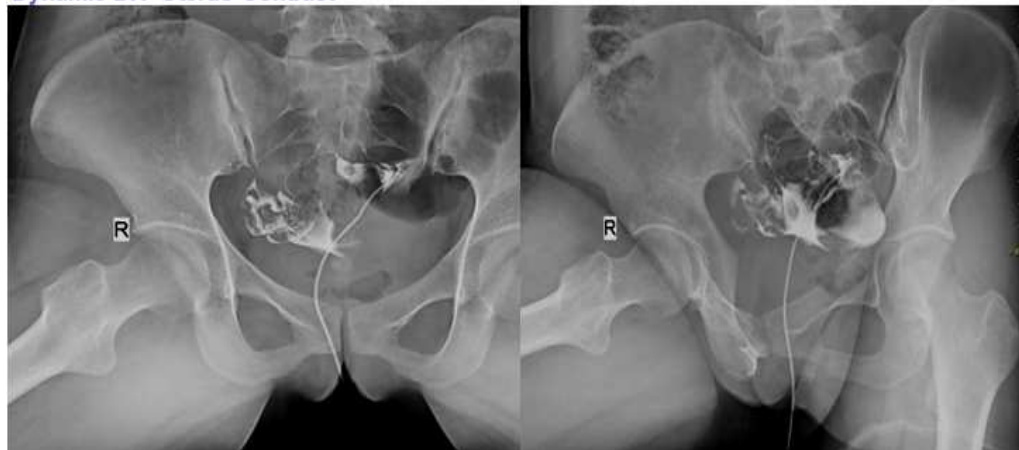


Dynamic DR-Latest Medical X-Ray Technology

Dynamic DR- IVP



Dynamic DR- Uterus Contrast



The most meaningful change dynamic DR brings is the new checking practice for radiographic examinations. 9M high resolution spot film during fluoroscopy will largely help to reduce misdiagnosis and missed diagnosis.

Contributed By :
Rockey Tang
Angell Technology