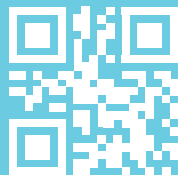


MEDICAL BULLETIN



New Discovery :



DEFENCE
MECHANISM
AGAINST BACTERIA



LABORATORY
GUIDELINE

Good Clinical Laboratory Practice



Dear Dr's and Colleagues,

Dear Colleagues and medical staffs, pleased to be in contact via this bulletin again. Moving forward, we would like to thank all for the good effort and stringent measures taken in ensuring good governance in the medical screening.

The annual Audit exercise for this year is in progress as scheduled. As of May 2017, we have covered Myanmar and Cambodia. We will be visiting your medical facility soon and kindly refer to the audit calendar page for the schedule.

This year, our annual Medical Seminar which will take place in September, will be held in Kuala Lumpur. We look forward to your full participation in ensuring its' success. The date and other relevant details will be disseminated accordingly closer to the event.

We have included a word puzzle and laughter column in this issue for your reading pleasure. We look forward to your participation in forthcoming issue's via comments and articles contribution.

Signing off with best regards.

Sam SU

**FORWARD IN
GUIDELINES ON**

GOOD CLINICAL LABORATORY PRACTICE

We assume all the Laboratory facility is governed by the guidelines in good clinical practices as seen to be in practise in most Laboratories. Moving forward we emphasize again on the need to evaluate the standards by incorporating External audit for those who are yet to within or from external sources which will contribute to enhancement in the laboratory practise.

By recognising the standards as recommended in the internal and external audits it will ensure the gold standard in GCLP compliance. On the Hepatitis B test has been done currently we will be most obliged if the antibody level is taken into consideration on workers found to be Negative in the screening. Those found with 0 antibody are at high risk taking into consideration the window period between the dates the worker examined in the source country to the date examined in Malaysia, which is more than 90 days.

As recommended earlier, we strongly suggest the worker with 0 antibodies be vaccinated with Hep B vaccines. In Urine examination it is mandatory to examine for Drugs for Cannabis and Opioids, together with albumin, glucose and microscopic test. Workers are still found to be positive in Drug testing in Malaysia, kindly ensure consistent education to the workers on the risk being addicted to Drugs and the strict measures undertaken to repatriate those found to be positive in the urine test.



MEDICAL SERVICES ANNUAL AUDIT ACTIVITY & SEMINAR 2017

MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC
THAILAND	VIETNAM NEPAL	PAKISTAN	BANGLADESH	MALAYSIA	PHILIPPINES	SRI LANKA INDIA	
	▶ Seminar Nepal		▶ Seminar Bangladesh	▶ Seminar Malaysia	▶ Seminar Philippines		2017

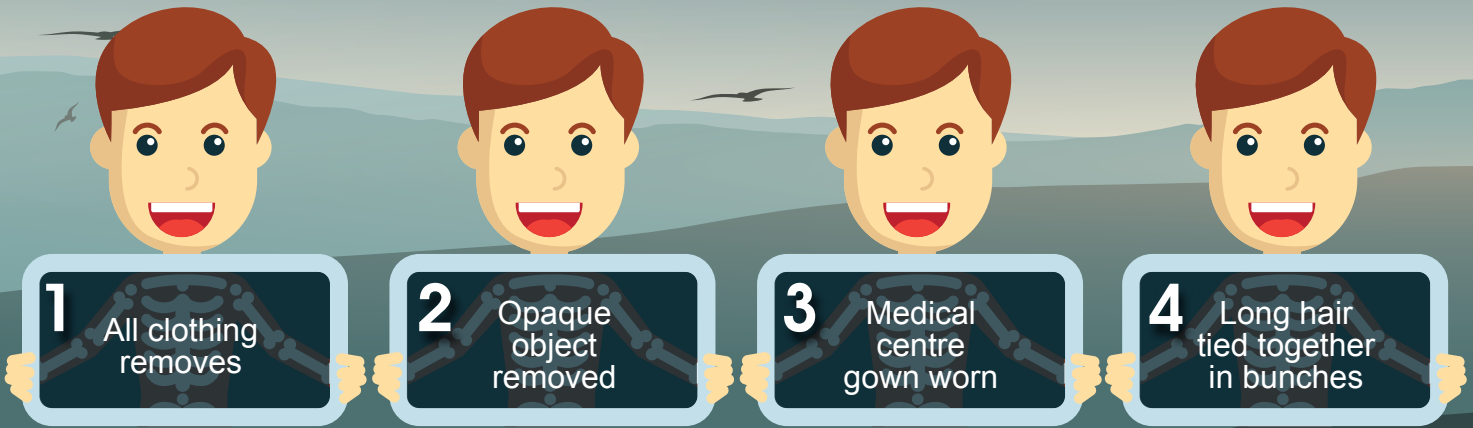
Diagnostic Imaging Quality Assurance

Before interpreting a chest x-ray it is important to assess the quality of the image. Without this step you may diagnose disease that is not genuine or you may be wrongly reassured.

This topics will covers the criteria of the chest x-ray quality.

IMAGE ATTRIBUTES	
P osition	Scapula Out Of Lung Field No Rotation
A rea	No Apices Cut No Chest Wall Cut No Costophrenic Angles Cut
C ollimation	Four Way Collimation
E xposure (Contrast & Density)	No Double Exposed & Superimposed No Over Exposed & Under Exposed
M arkers (L/R)	Marker Placed
A esthetics	Alignment Inspiration No Body Movement Artefact
D emographic Complete	In Conformance

► Patient Preparation



► Radiographer Responsibilities



LAUGHTER

INDIAN ENGLISH VERY DANGEROUS



EXTRACTED from a COURT REPORT FROM INDIA

JUDGE : Raj, why were you beaten up in public? What did you do?

RAJ : Sir, I am innocent.

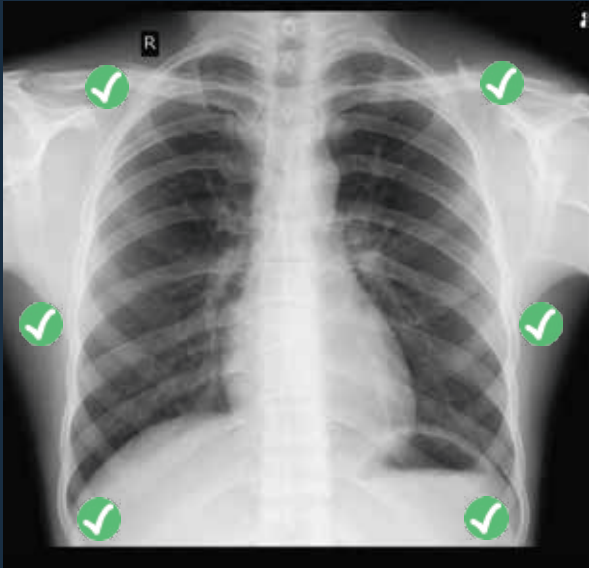
JUDGE : Why do you say that?

RAJ : Your Honour, I was in crowded bus and my photo fell from wallet. So, I only say to lady in front of me, "Aunty, please lift your sari, I want to take photo..."

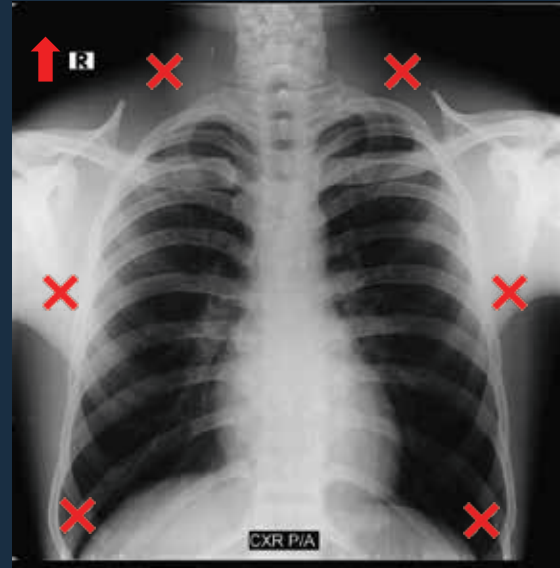


CHEST X-RAY PROJECTION

Sample Satisfactory Image Quality



Sample Unsatisfactory Image Quality



(Demographic Not Complete,
Costophrenic Angel Cut,
Scratch Marks)

COMMON ISSUE IN CHEST X-RAY

▶ Curvi-linear shadows are abnormal:

- If the location doesn't coincide with radiological anatomy of fissures.
- If the thickness is $>2\text{mm}$.
- If there are > 2 linear lines.

▶ Beware of :

- Atelectasis
- Neck Shadow
- Skin Folds



COARSE SHADOWING RIGHT UPPER ZONE



**NEW DEFENCE
MECHANISM
AGAINST BACTERIA
DISCOVERED**

Researchers in dermatology at Lund University in Sweden believe they have cracked the mystery of why we are able to quickly prevent an infection from spreading uncontrollably in the body during wounding. They believe this knowledge may be of clinical significance for developing new ways to counteract bacteria.

Researchers in dermatology at Lund University in Sweden believe they have cracked the mystery of why we are able to quickly prevent an infection from spreading uncontrollably in the body during wounding.

They believe this knowledge may be of clinical significance for developing new ways to counteract bacteria.

"Perhaps we don't need to kill them with antibiotics but simply gather them so that the body can better take care of the infection", say researchers Jitka Petrlova (lead author of the article) and Artur Schmidtchen, Professor in Dermatology and Venereology, Lund University. The study was conducted in close collaboration with their colleagues in Lund, Copenhagen and Singapore, and has been published in the scientific journal Proceedings of the National Academy of Sciences (PNAS).

The researchers have discovered that fragments of thrombin - a common blood protein which can be found in wounds - can aggregate both bacteria and their toxins; something they did not see in normal blood plasma. The aggregation takes place quickly in the wound and causes bacteria and endotoxins not only to gather but also to be "eaten" by the body's inflammatory cells.



"This way, the body avoids a spread of the infection. We believe this to be a fundamental mechanism for taking care of both bacteria and their toxins during wound healing", says Jitka Petrlova and continues; "Our discovery links aggregation and amyloid formation to our primary defence against infections - our innate immunity. It is well known that various aggregating proteins can cause amyloid disease, in skin or internal organs, such as the brain. Therefore, a mechanism that is supposed to protect us from infections, can sometimes be over-activated and lead to degenerative diseases."

Artur Schmidtchen, who has conducted research in the field of innate immunity for over 20 years, is pleased with the results of the study. "I have always been fascinated by how nature has effectively created different defence mechanisms, and wound healing provides a rich source of new discoveries. The ability to effectively heal wounds is of evolutionary significance to our survival. Compared to antibiotics, innate immunity has been around for millions of years - and I think we should consider the application of these concepts in an era of increasing antibiotic resistance."



Article :
Aggregation of thrombin-derived C-terminal fragments as a previously undisclosed host defense mechanism, Jitka Petrlova, Finja C. Hansen, Mariena J. A. van der Plas, Roland G. Huber, Matthias Mörgelin, Martin Malmsten, Peter J. Bond, and Artur Schmidtchen, Proceedings of the National Academy of Sciences (PNAS), published 10 April 2017.

the word Se_rch

R	W	A	N	S	R	E	K	R	A	M
N	O	I	T	I	S	O	P	W	D	A
L	Q	T	P	D	I	K	N	V	S	R
J	B	H	A	R	T	E	F	A	C	T
A	C	D	Q	T	K	L	J	E	O	B
L	E	E	X	S	I	C	X	S	L	C
I	T	S	R	T	N	O	C	H	L	T
G	M	O	V	D	S	C	N	K	I	P
N	O	P	B	O	P	A	L	F	M	A
M	N	M	R	N	I	X	O	A	A	G
E	P	I	U	K	R	T	F	I	T	W
N	Y	R	I	E	A	I	S	Z	I	B
T	R	E	P	Y	T	I	D	W	O	J
V	O	P	H	W	I	L	Z	O	N	P
Z	X	U	G	K	O	N	M	W	J	K
H	F	S	D	E	N	S	I	T	Y	X

- 1 • *Rotation*
- 2 • *Artefact*
- 3 • *Inspiration*
- 4 • *Alignment*
- 5 • *Collimation*

- 6 • *Superimposed*
- 7 • *Marker*
- 8 • *Position*
- 9 • *Contrast*
- 10 • *Density*

FEEDBACK SURVEY

1. Overall, does Medical Bulletin's content and information useful to you?

- Extremely useful
- Very useful
- Somewhat useful
- Not so useful
- Not at all useful

2. How easy is it to understand the content and information on Medical Bulletin?

- Extremely easy
- Very easy
- Somewhat easy
- Not so easy
- Not at all easy

3. How visually appealing is Medical Bulletin?

- Extremely appealing
- Very appealing
- Somewhat appealing
- Not so appealing
- Not at all appealing

4. How likely is it that you would recommend Medical Bulletin to others?

Not at all likely

Extremely likely

0	1	2	3	4	5	6	7	8	9	10
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5. Do you have any other comments about how we can improve Medical Bulletin?



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