Appropriate documentary evidence

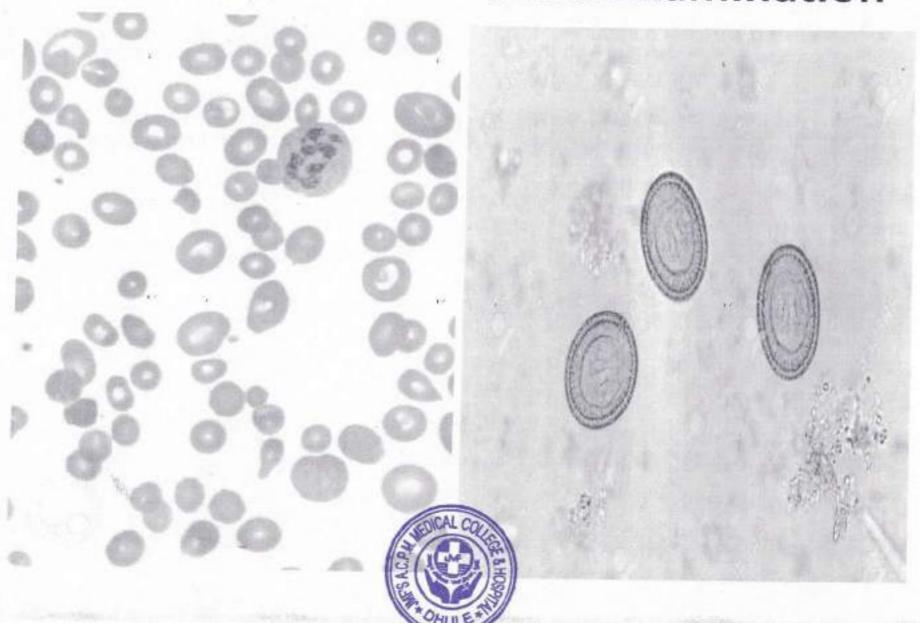
CASE No. 1

A 38 yrs old female came with c/o malaise, fatigue, breathlessness.
 Immediate past H/o 2 fainting episodes.Hb-9.2gm/dl, HCT- 27.9 %, MCV- 132 fL. RDW- 25.8 %.



PBS

Stool Examination



QUESTIONS

- 1) Enumerate differential diagnosis.
- 2) What are the lab findings in favour of your diagnosis?
- 3) What will be the treatment plan in this patient?



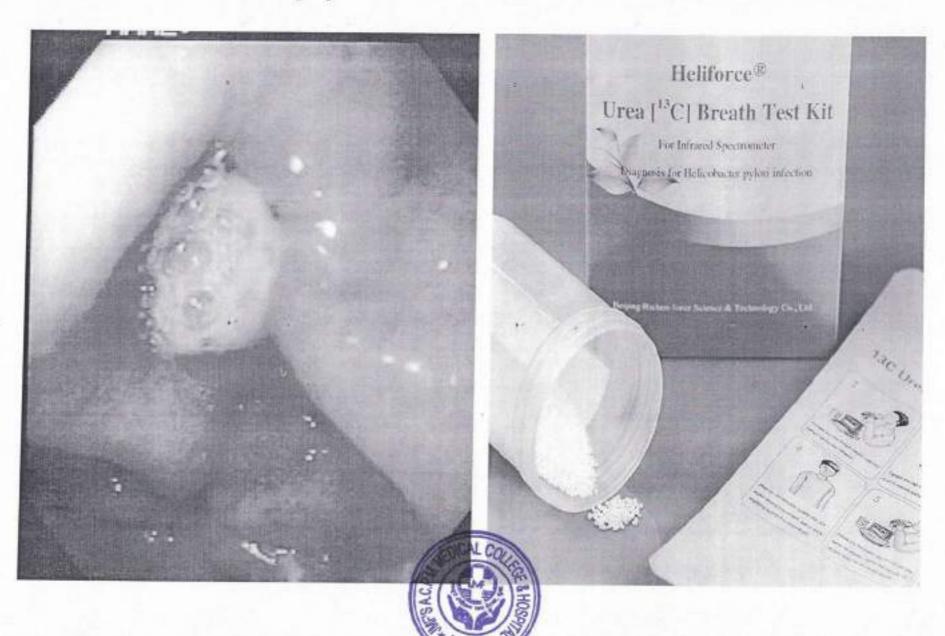
CASE NO.2

 A 40 yrs old corporate manager c/o epigastric pain, nausea since 2 months. Intensity of pain increases at night. He was advised Urea Breath Test, which has been reported as 'Positive'. Gastroscopy revealed an antral ulcer. Biopsy was done.



Gastroscopy

Urea Breath Test



Biopsy interpretation



Questions

- 1) What is the probable diagnosis?
- 2) What should be the pathologic findings confirming the diagnosis?
- 3) How will you treat this patient?



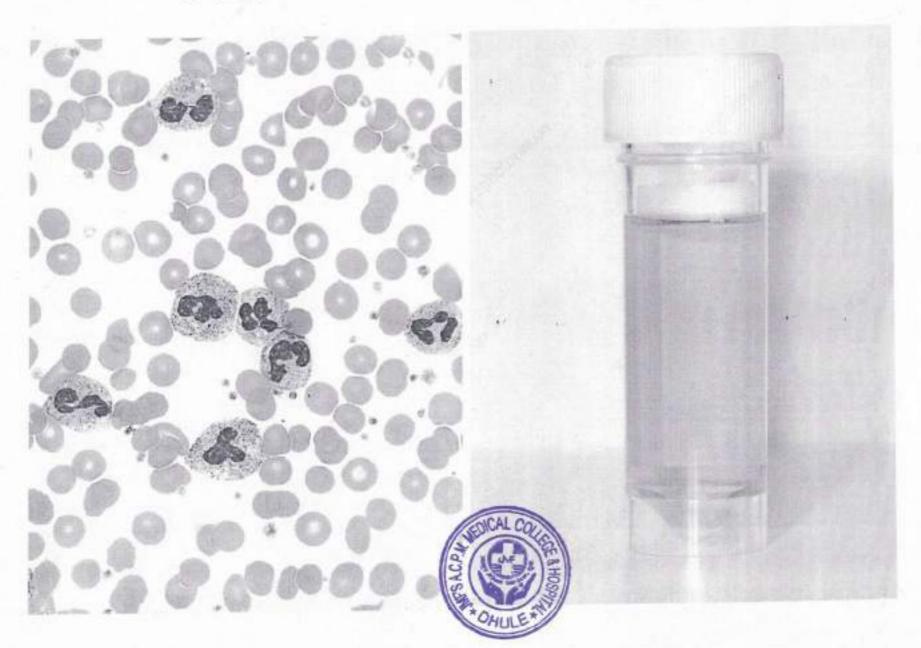
CASE NO. 4

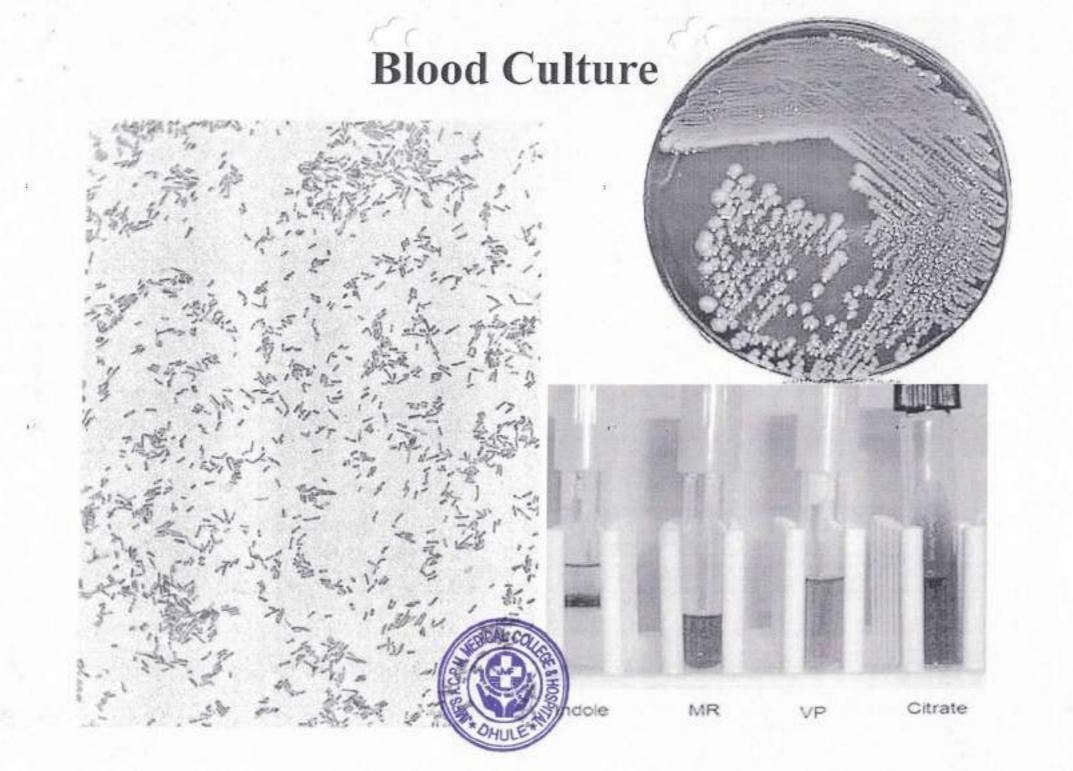
- A 56 yrs old male had an episode of severe abdominal pain and fever 10 days before admission. He self medicated with a cathartic which made him feel worse. He started having cramps in calf muscles. During hospitalisation, icterus was noted. Patient vomited periodically and before admission had 6 bouts of bulky diarrhoea with blood streaks.
- Clinical history- Temp. 43°C, Tachycardia, tachypnoea, Normal BP, Marked icterus. CVS, RS- Within Normal Limits. Abdominal Distension noted with moderate diffuse tenderness.
- Lab investigations- Marked neutrophilic leucocytosis,
 Conjugated hyperbilirubinemia, significant prolonged PT.



PBS

Urine





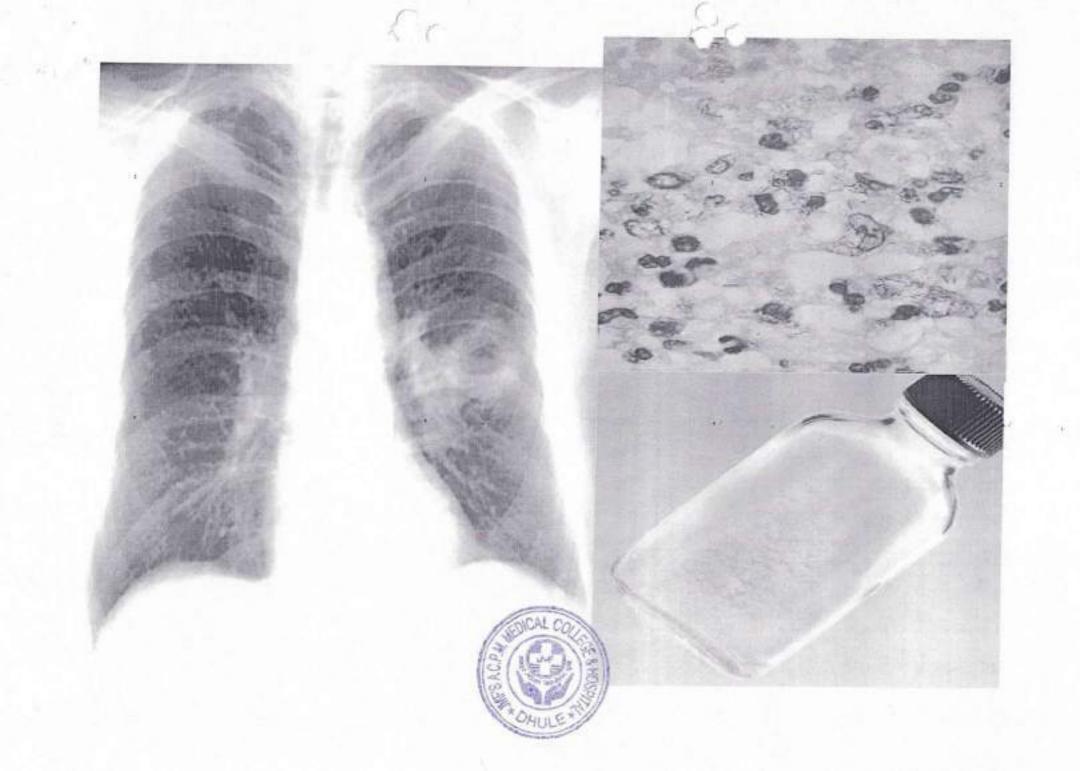
QUESTIONS

- 1) What is the probable clinical diagnosis?
- 2) What is the interpretation of lab tests?
- Discuss your plan of treatment and management.



CASE NO. 5

· A cachectic 34 yrs old male presented with progressive shortness of breath and cough with expectoration since 1 month. There was increasing fatigue, breathlessness on exertion and mild chest discomfort. C/o periodically night sweats with rise in temperature. He noted loss of weight since last 3 months. The chest X-Ray and Lab findings are submitted for interpretation.



Questions

- 1) What is the clinical diagnosis?
- 2) What is the interpretation of investigations done?
- 3) Which other additional investigations should be done to confirm diagnosis?
- 4) What is the treatment plan and difficulties in managing this patient?



Long case:2

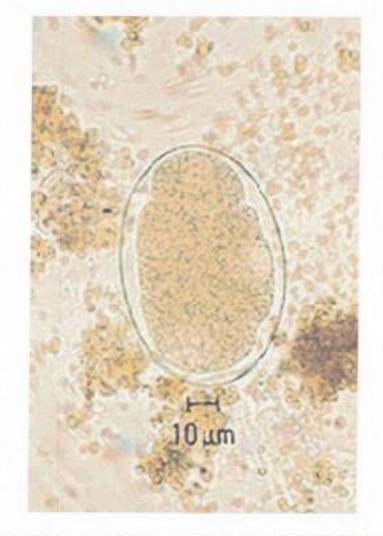
A 60 year old gentleman comes with ulcer over rt foot since 6 months. Patient is a known diabetic since 15 years on medications.

What other history will you ask for?
What general examination finding you look for?

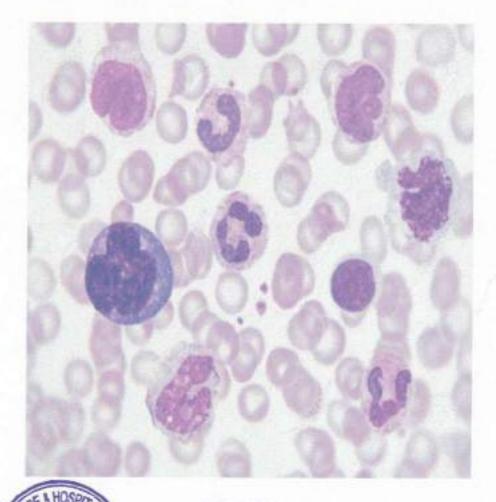
Describe how will you proceed with local examination?

What are your differential diagnosis? How will you proceed?

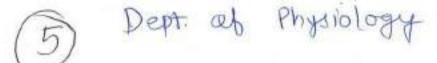




STOOL EXAMINATION



PBS



Early Clinical Exposure-IV

Mrs. Maria is a 32-year-old white woman, working as assistant operation manager in manufacturing cotton unit, presents with symptoms of recurrent abdominal pain and loose stools. She states that she has experienced these symptoms since adolescence, with periods of improvement and worsening over the years. She notes that her symptoms were most pronounced when she was in college. Over the past year, her symptoms have been occurring more frequently and with greater severity. Bloating and distention also have increasingly bothered her over the past 6 months. The bloating seems to worsen with food intake, while the distention progresses throughout the day. When questioned about abdominal pain, she describes it as 7 (on a scale of 10), with acute worsening immediately prior to defecation and significant improvement after defecation. She has loose stools approximately one third of the time and often will have 2-3 bowel movements per day. She jogs about a kilometer once in week, tries to eat 4-6 servings of fruits and vegetables daily, and taking a daily multivitamin, for many years, She feels that she is loosing weight but her vital signs seems to be within normal limits: height 5'6", weight 46 kg, blood pressure 108/64 mm Hg, pulse 60 beats per minute, and respiratory rate 12 breaths per minute. On physical examination, she is a welldeveloped, well-nourished woman but exhibit some employment distress. Her physical examination is notable for mild tenderness to palpation in the left lower quadrant, but there is no rebound tenderness, guarding, or other peritoneal signs. The remainder of the physical examination is unremarkable.

About 5 years back, she presented to the emergency room complaining that she had vomited up blood at home. She had been suffering with sharp epigastric pain, especially in the morning, for one week before the vomiting began. The pain was accompanied by mild nausea and was relieved by food or antacids. She had a long history of peptic ulcer disease and was initially diagnosed with duodenal ulcer at age of 16. Despite at least six discrete episodes of ulcer documented by x-ray or endoscopy, she had never undergone surgery. The physician had worked up for Zollinger-Ellison syndrome, which was negative. Her endoscopy findings revealed scarring of the pylorus with a 2 cm ulcer in the first portion of the duodenum. Biopsy of the ulcer revealed curved bacilli with Warthin—Starry silver staining and a positive urease test. She was started on an H₂ blocker and the pain rapidly subsided.

- Describe the clinical features of irritable bowl syndrome and duodenal ulcer.
- Compare and contrast the irritable bowl syndrome and inflammatory bowl disease.
- Explain the gut-brain axis [GBA]. Explain the role GBA in GI disorder.
 Explain the feature of Gastric Mucosal barrier and its function.
- 5. Explain the neuronal mechanism of Gastro-iliac reflex and enterogastric reflex.
- Explain the mechanism of nausea and vomiting.
- Describe the pathophysiology of Zollinger-Ellison syndrome and its management.
- 8. What phenotypic characteristics of H. pylori are thought to account for its virulence? Which of them appear to be most important?
- 9. What further treatment might be helpful?What long-term benefits could she expect if she were to receive the additional treatment?
- 10. Describe mechanism of defecation reflex.

Protestor & Meed, Department of Prosidently, a C PM Method Called Trees

Before Induction of Anaesthesia

(with at least nurse & anaesthetic)

1) Has the patient confirmed his/her ic ntity, site, procedure and consent)

Yes

2) Is the site marked?

Yes/Not applicable

 Is the anaesthesia machine and medication check complete?

Yes

4) Is the pulse conther ient and

ctioning?

Yes

Does the patient have a known allergy?

Yes/No

6)Difficult airway or aspiration risk?

Yes, and two IV's /Central access and fluids planned

No

Name and Signature of Anaesthetic with date and time:

Jan Joseph

Before skin incision

(With nurse ,anaesthetic and surgeon)

Confirm all team members have introduced themselves by name and role

Confirm the patient's name, procedure, and where the incision will be made

1)Has antibiotic prophylaxis been given within the last 60 minutes?

Yes

Not applicable

2)Anticipated critical events

To Surgeon:

What are critical on non-routine steps ?

How long will the case take ?

What is the anticipated blood loss?

To anaesthetic:

Are there any patient specific concern?

To Nursing team:

Has Sterility (including indicator result) been confirmed?

Are there equipment issues or any concerns?

3) Is essential imaging displayed?

Yes /Not applicable Name & Signature of Surgeon with Date & Time:

Algerithms

Before patient leaves operating room

(With nurse, anaesthetic and surgeon)

Nurse Verbally Confirms:

The name of the procedure

Completion of the instrument, sponge, needle counts

Specimen labelling (read specimen labels aloud, including patient name)

Whether there are any equipment problems to be addressed

> To surgeon, anaesthetic and nurse:

What are the key concerns for recovery and management of this patient?

Name & signature of Nurse with Date & Time

PROF.Dr.N.B.GOYAL

DEPT, OF ORTHOPAEDICS

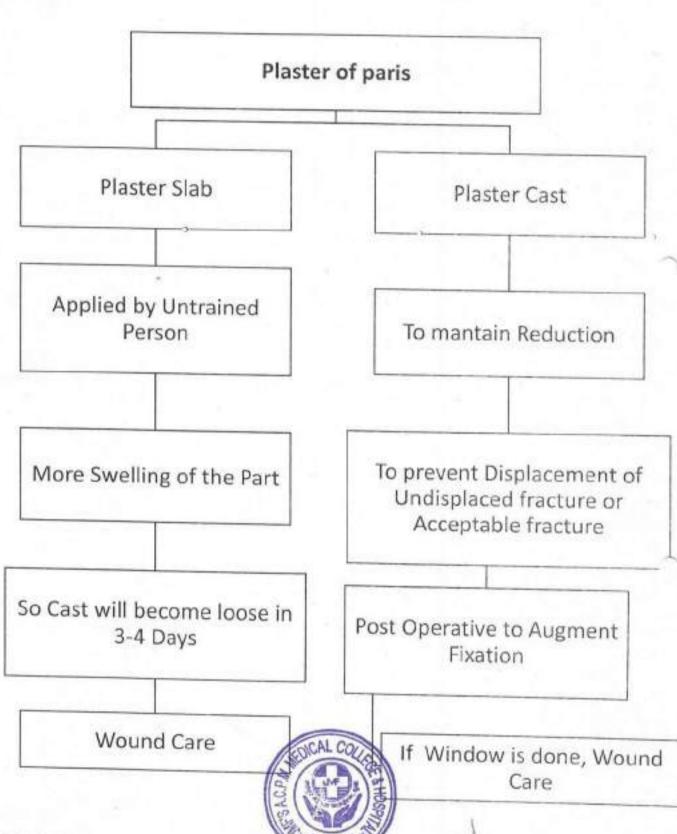


JAWAHAR MEDICAL FOUNDATION'S A.C.P.M. MEDICAL COLLEGE & HOSPITAL

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 Ref No.

Date:



PROF.Dr.N.B.GOYAL
DEPT.OF ORTHOPAEDICS

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JAWAHAR MEDICAL LOUNDATION'S A.C.P.M. MEDICAL COLLEGE 8 HOSPITAL

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Comments of the control of the contr

trint in ...

In all procedures, for patients we do following..

Isolation of patient till covid status

Fitness of patient for that procedure.

For minor procedure, Only Diabetes check up

Counselling of the patient about Pro/cons of procedure and Possible results of procedure

Autoclave materials-Implants, Instruments, Drapes etc.

required for pathological examination

Sample if

Painting and draping of part

Anaesthesia
GA / SPINAL/IV REGIONAL/ LOCAL

Under C Arm Monitoring

Surgery Done, Implant used, Body part disposed as per BMW protocols

Post OP. Care

Description of the state of the

PROF.Dr.N.B.GOYAL
DEPT.OF ORTHOPAEDICS

Bone Marrow Aspiration and Biopsy.

Presentor –Bhargavi Gawhankar Roll no- 29.



INTRODUCTION

Bone marrow aspiration is the process of removing the liquid part of the bone marrow by suction through a needle to diagnose and follow the progress of various conditions like anemia, cancer and also, for bone marrow transplant.

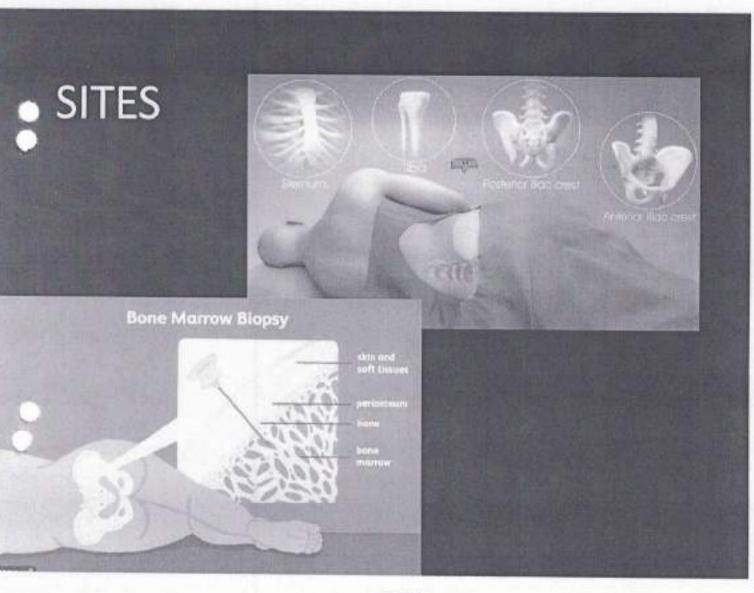
Bone marrow biopsy takes out a larger piece of solid bone marrow by coring out the sample with a saw (or trephine) that cuts a small amount of bone tissue as well with it. This provides a more complete examination of the bone marrow.



INDICATIONS.

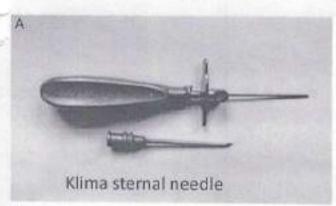
- 1. Anemia- Microcytic, macrocytic, normocytic, aplastic.
- Non hodgkin's lymphoma, Hodgkin's lymphoma and metastatic carcinoma
- 3. Stromal changes like fibrosis, necrosis, gelatinous marrow transformation.
- 1. Hyoplastic myeloplastic syndrome
- 5. Hypoplastic leukemia
- 5. Hairy cell leukemia
- 7. Multiple myloma
- 3. Pyrexia
- . Amyloidosis
- 10. Metabolic bone disorders
- L1.Paraproteinemia.
- L2. Iron assessment.







INSTRUMENTS



В



Salah bone marrow aspiration needle



C

Watherfield needle -iliac crest



Jamshidi needle for aspiration and biopsy



Aspiration VS Biopsy

- Aspiration gives better cytological details.
- Ideal for cytogenetics and molecular genetics.
- · Dry tap in fibrosis.
- Less painful.
- Helpful in Iron deficiency anemia, megaloblastic anemia and acute leukemia.

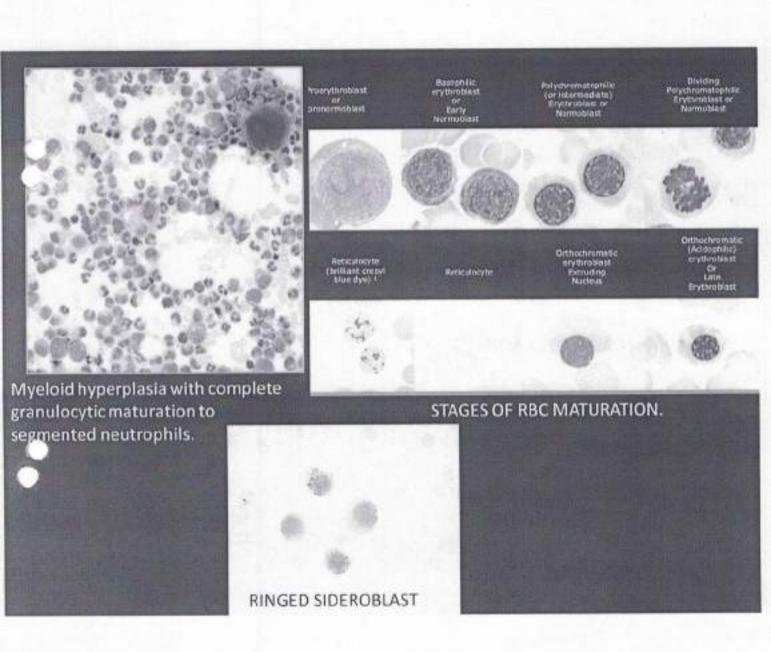
- Biopsy gives better topographical details, cellularity and infilteration.
- · Can be used for both.
- Essential for diagnosis in dry tap.
- · More painful
- Helpful for Aplastic anemia, lymphoma, metastatic carcinoma and neoplasms.



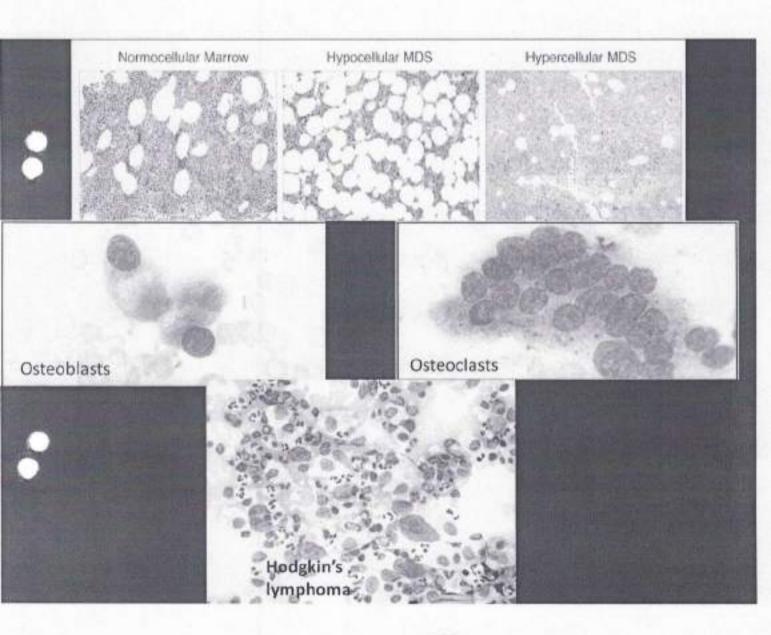
Report Interpretation.

- Determine cellularity identify megakaryocytes, their morphology and maturation stages and abnormalities.
- 2. Determine myloid: erythroid ratio.
- Perform differential count for categories erythroid, myloid, lymphoid, plasma cell and others noting their morphological abnormalities.
- . Look for clumps of abnormal cells.
- Identify macrophages.
- 6.Look for areas of bone marrow necrosis.
- 7. Assess the iron content.

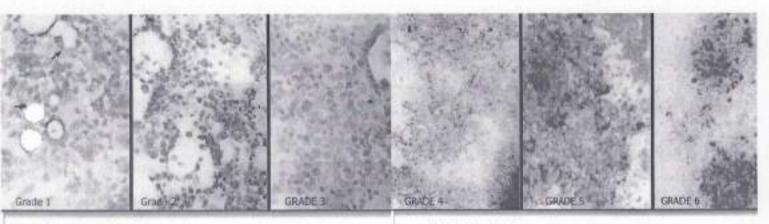










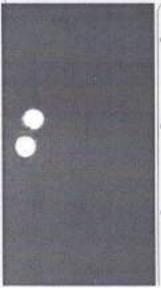


Grading for iron on bone marrow aspirate:

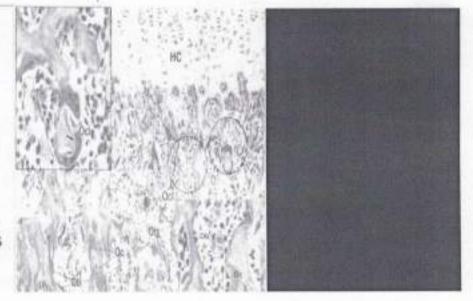
- Small may particles (sad webbe in retriebung calls vering an oil objective Small, sparse may particles in noticeture calls, wealth at tower pavine. Humanians small particles in retrodum calls.

fron grading.

- 4- Larger particles with a tendency to aggregate into clumps
- 1+ Dense, large clumps
- 5+ Very large cumps and extracefular ann



- Osteocytes: Seen in bony lacunae.
- · Osteoblasts: Seen lining the trabeculae.
- Osteoclasts: Seen in howship's lacunae





THANK YOU



Hamilton Anxiety Rating Scale (HAM-A)

Reference: Hamilton M.The assessment of anxiety states by rating. Br J Med Psychol 1959; 32:50-55.

Rating Clinician-rated

Administration time 10-15 minutes

Main purpose To assess the severity of symptoms of anxiety

Population Adults, adolescents and children

Commentary

The HAM-A was one of the first rating scales developed to measure the severity of anxiety symptoms, and is still widely used today in both clinical and research settings. The scale consists of 14 items, each defined by a series of symptoms, and measures both psychic anxiety (mental agitation and psychological distress) and somatic anxiety (physical complaints related to anxiety). Although the HAM-A remains widely used as an outcome measure in clinical trials, it has been criticized for its sometimes poor ability to discriminate between anxiolytic and antidepressent effects, and somatic anxiety versus somatic side effects. The HAM-A does not provide any standardized probe questions. Despite this, the reported levels of interrater reliability for the scale appear to be acceptable.

Scoring

Each item is scored on a scale of 0 (not present) to 4 (severe), with a total score range of 0–56, where <17 indicates mild severity, 18–24 mild to moderate severity and 25–30 moderate to severe.

Versions

The scale has been translated into: Cantonese for China, French and Spanish. An IVR version of the scale is available from Healthcare Technology Systems.

Additional references

Maier W, Buller R, Philipp M, Heuser I. The Hamilton Anxiety Scale: reliability, validity and sensitivity to change in anxiety and depressive disorders. J Affect Disord 1988;14(1):61–8.

Borkovec T and Costello E. Efficacy of applied relaxation and cognitive behavioral therapy in the treatment of generalized anxiety disorder. J Clin Consult Psychol 1993; 61(4):611–19

Address for correspondence

The HAM-A is in the public domain.



Hamilton Anxiety Rating Scale (HAM-A)

Balow is a list of phrases that describe certain feeling that people have. Rate the patients by finding the answer which best describes the extent to which he/she has these conditions. Select one of the five responses for each of the fourteen questions.

0 =	Not present.	I = Mild,	2 = Moderat	6.	3 = Severe,		4 = Very severe	
1	Anxious mood		D (4) 8		Somatic (sensory)	0 1 2	I	
W	orries, anticipation of the wor	ss, fearful anticipation		Tinnitiss, blurring of vision, hot and cold flushes, feelings of weakness pricking sensation.				
2 For	Tension lings of tension, fatigability, st	[0] [1] [2] [3 ardle response, move	0		Cardiovascular symptoms	0 1 2	3 4	
eas	ily, trembling, feelings of rest	lessness, inability to re	state. T	Tachycardia, palpitations, pain in chest, throbbing of vessels, fainting feelings, missing best.				
3	Fears dark, of strangers, of being k	I I I	14	0	Respiratory symptoms		3 4	
	mark, or strangers, or seing n wds.	m, grone, ur animes, u	P	res	sure or constriction in chest, the	oking feelings, i	ighing, dyspnea	
4	Insomnia	0 [] [2]	DA 1	i	Gastrointestinal symptoms	0 11 2	34	
	officulty in falling asleep, broken sleep, unsatisfying sleep and fatigue in waking, dreams, nightmares, night terrors.		al	Difficulty in swallowing, wind abdominal pain, burning sentations, abdominal fullness, nauses, vomiting, borbarygmi, looseness of bowels, loss of weight, constitution.				
5	Intellectual	012		*	Genetourinary symptoms	00 00 00	ITT FIT	
Difficulty in concentration, poor memory								
4	Depressed mood	0 1 2 (3] [4] m	Frequency of micturition, urgency of micturition, whenor menorrhagia, development of frigidity, premature ejacular blodo, imposence.			aculation, loss of	
	ss of interest, lack of pleasure	n habbies, depressio	on, early waking,	Die	o, impotence.			
du	urnal swing.		1	3	Autonomic symptoms	0 1 3	1 4	
7	Somatic (muscular)	(D) [] [Z]			mouth, flushing, pallor, tendency	to sweat, gide	diness, tension	
	ins and aches, twitching, stiffs		grinding of	100	dache, raising of hoir.			
100	eeth, unsteady voice, increased muscular tone.		1	4	Behavior at interview	0 1 2	13 4	
				idg	eting, resdessness or pacing, tre- ined face, sighing or rapid respira	nor of hands, i tion, facial pall	lurrowed brow, or, swallowing,	



रुग्ण आरोग्य प्रश्नावली - 9 (PHQ-9)

मागील २ आठवड्यांच्या काळात, आपस्यांना चालील पैकी कोण्ड्याही समस्येमुळे कितीयेळा वास झाला आहे ? (अपने उत्तर ४) अशी कृष करूत छा।	अजियात गाही	अनेक दिवस	अध्योद्धा अधिक दिवस	जयळपार प्रत्येक दिवशी
1. गोही करण्यात थोडीशी रुचि किंवा आलंद	0	1	2	3
2. हताश, उद्दीग्गला, किया निराश याटणे	0.	1	2	3
3. झोप लागण्यात किंवा झोपलेले सहण्यात समस्या, किंवा खूप झोप येणे	0	+	2	3
4. थकलेले किया थोडी ऊर्जा असल्याचे वाटले	0	1	2	3
5. भूक मंदायणे किया अति खाणे	0	1	2	3
6. स्वतःबद्दल वाईट वाटणे — किंवा आपण अपयशी आऱ्येत किंवा आपण स्वतःचा किंवा आपल्या कुटुंबाचा अपेक्षासंग केला आहे असे वाटणे	0	1	2	3
7. वर्तमानपत्र वाचणे किया टेलिव्हिजन पाइणे यासारख्या गोशीवर लक्ष एकाच करण्यास जस होणे	0	- 1	2	3
8. हमस्यान किया बोलणे इतके संथ होते की इतर सोकांच्या लक्षात येणे? किया याच्या उलट — इतके चिंताकात किया अस्वस्थ होणे की आपण सामान्यपेक्षा बरेच अधिक इकडे-तिकडे फिरत आहात	0	1	2	3
9. आपण मेलो असले तर चांगले इनले असते किया स्वतःला काही प्रकाराने जग्रमी करन घेण्याचे विचार	0	1	2	3
FOR OFFICE CODE	og <u>0</u> +		+	

आपण कोणत्याही समस्येयर खूग केल असेल तर, आपले काम करणे, घरी यस्तुंची काळजी घेणे, किंवा इतर लोकांसीयल वावरणे यामधे या समस्यांनी आपल्याला किती अवघड झाले ?

अजियात अयघड	बोडेफार	खूप	अत्यंत
झाले नाही	अवषड	अवचड	अवघड

Drs. Robert L. Spitzer, Janet B.W. Williams, Kurt Kroonko आणि सहकारी यांच्यदारे Pfizer Inc. पांच्याकडून प्राप्त तैक्षणिक अनुदानातृत् विकसित. प्रतिनिधी, लाघांतर,ककाशन करणे. आणि याटप ग्राप्ताठी परचनगीची अनुस्थकता नाही.

PATIENT HEALTH QUESTIONNAIRE (PHQ-9)

Ш#;		DATE		
Over the last 2 weeks, how often have you been				
bothered by any of the following problems? (use "<" to indicate your answer)	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	0	1	2	3
2. Feeling down, depressed, or hopeless	0	1	2	3
Trouble falling or staying asleep, or sleeping too much	0	1	2	3
4. Feeling tired or having little energy	0	1	2	3
5. Poor appetite or overeating	0	1	2	3
Feeling bad about yourself—or that you are a failure or have let yourself or your family down	0	1	2	3
7. Trouble concentrating on things, such as reading the newspaper or watching television	0	1	2	3
 Moving or speaking so slowly that other people could have noticed. Or the opposite —being so figety or restless that you have been moving around a lot more than usual 	0	1	2	3
Thoughts that you would be better off dead, or of hurting yourself	0	1	2	3
	add columns		•	
(Healthcare professional: For interpretation of TOT) please refer to accompanying scoring card).	AL, TOTAL:			
10. If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?	DICAL CO	Somew Very di	icult at all that difficult fficult ely difficult	

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PHQ-9 Patient Depression Questionnaire

For initial diagnosis:

- Patient completes PHQ-9 Quick Depression Assessment.

Consider Major Depressive Disorder

Consider Other Depressive Disorder

if there are 2-4 √s in the shaded section (one of which corresponds to Question #1 or #2).

Note: Since the questionnaire relies on patient self-report, all responses should be verified by the clinician, and a definitive diagnosis is made on clinical grounds taking into account how well the patient understood the questionnaire, as well as other relevant information from the patient,

Diagnoses of Major Depressive Disorder or Other Depressive Disorder also require impairment of social, occupational, or other important areas of functioning (Question #10) and ruling out normal bereavement, a history of a Manic Episode (Bipolar Disorder), and a physical disorder, medication, or other drug as the biological cause of the depressive symptoms.

To monitor severity over time for newly diagnosed patients or patients in current treatment for depression:

- Patients may complete questionnaires at baseline and at regular intervals (eg, every 2 weeks) at home and being them in at their next appointment for scoring or they may complete the questionnaire during each scheduled appointment.
- Add up √s by column. For every √: Several days = 1 More than half the days = 2 Nearly every day = 3
- 3. Add together column scores to get a TOTAL score.
- 4. Refer to the accompanying PHQ-9 Seoring Box to interpret the TOTAL score.
- Results may be included in patient files to assist you in setting up a treatment goal, determining degree of response, as well as guiding treatment intervention.

Scoring: add up all checked boxes on PHQ-9

For every ✓ Not at all = 0; Several days = 1; More than half the days = 2; Nearly every day = 3

Interpretation of Total Score

Total Score	Depression Severity
1-4	Minimal depression
5-9	Mild depression
10-14	Moderate depression
15-19	Moderately severe depression
20-27	Severe depression

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