

II COM

•

•

(.) : .

mg/dl % / mg/dl
% / %
% / % / % /

:

% / mg/dl
%

LDH (pleural effusion)

.()

.()

(CHF)

Pillay

() chakko

()

() .

(specific gravity)
gr/L

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IICCOM

LDH

LDH

LDH

(Material and Method)

$$\vdots \left(\begin{array}{c} \vdots \\ \vdots \end{array} \right)$$

B.K

PCR-

lateral Decubitus

Total Bilirubin – Lactate Dehydrogenase- Total
) cholesterol – Total protein

RF CHF

TB

Multichannel Analyzer

NPV (Positive predictive value) PPV
Efficiency (negative predictive value)

(Enzymatic UV gr/lit Optimyzed method)

Sensitivity: $TP / (TP + FN)$ Specificity: $TN / (TN + FP)$

Efficiency: $(TP+TN)/ (TP + TN + EP + FN)$
(True positive) :TP

CO BAS MYRA

DCA

Enzymatic calorimetric

(True Negative) :TN

(False positive) :FP

CHF

:(Congestive Heart Failure) CHF -

(False Negative) :FN

CHF

Renal Failure -

(%)

(%)

 $\pm /$

:(% /) Malignancy

(%)

(%) Infective

IICCOM

/	LDH	LDH	(% /)	(% /) CHF
	() %		.	. (% /)
LDH	%	% /	mg/dl	
()	%	(LDH>200)	% /	
	%	% /		% / Efficiency %
	()	LDH	NPV %	PPV .
		LDH		. % /
	.()			
%	%			
	.()	P.P.V .	%	% / Efficiency
			% /	N.P.V
	(1.55. mmol/lit)	/		
	.() %			
	.() %	Efficiency		
	%		% /	% /
	(1.10mmol/lit) 43mg/dl		(LDH>200)	LDH
()	%		% /	Efficiency
	%	/	LDH	LDH
	LDH			
		Efficiency		
	/		% /	% /
%	%	.()		
	()			
	%	% /		
	/		()	
()	%		.()	
()	%		()	
	()	%	()	
.(% /)		(%)		
			.()	%
		/		%
()		%		
		% /		.()

IICCOM

) (/
 (mg/dl
 mg/dl mg/dl
 /
 mg/dl
 (HDI, LDL)
 . ()

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IICCOM

Cause	No.of patients	%
Transudate	7	17.5
CHF	5	12.5
RF	1	2.5
Cirrhosis	1	2.5
Exudate	33	82.5%
Neo Plastic	13	32.5%
Infective	12	30%
Tuberculosis	8	20

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	N	Cholestrol		Bil P/S		Cholestrol P/S		Total Protein		LDH		LDH P/S	
Exudate		TP	FN	TP	FN	TP	FN	TP	FN	TP	FN	TP	FN
Total	33	28	5	33	0	30	3	30	0	30	3	29	4
Malignancy	13	11	2	13	0	12	1	12	1	13	0	12	1
Pneumonia	12	9	3	12	0	11	1	10	2	10	2	10	2
T.B	8	8	0	8	0	7	1	8	0	7	1	7	1
Transudates		TN	FP	TN	FP	TN	FP	TN	FP	TN	FP	TN	FP
Total	7	7	0	2	5	7	0	7	0	7	0	7	0
CHF	5	7	0	1	4	7	0	7	0	7	0	7	0
*Others	2	2	0	1	1	2	0	2	0	2	0	2	0

LDH

:

LDH

Renal Failure

*

CHF: Congestive Heart Failure; FN: False negative

TN: True Negative

TP: True Positive

Method	Efficiency %	Sensitivity %	Specifity %	PPV %	NPV %
P/S Protein	92.5	90.6	100	100	70
P/S LDH	90	87.7	100	100	63.6
LDH	92.5	90.9	100	100	70
Cholestrol (>43mg/dl)	87.5	84.8	100	100	58.3
P/S Bilirubin	87.5	100	28.5	86.8	100

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