

Results

RESULTS

Identification of pathological specimens :

A total of 68 cases were collected and examined :
 28 samples were Gram negative bacilli , isolated from

12 Discharging otitis media .

2 Abscesses in the back .

5 Infected burns ,

7 Mid stream urine .

2 Infected surgical incisions ,

40 specimens were staphylococci , isolated from

32 Pyogenic abscesses .

4 Infected incisions .

3 Infected burns .

1 Discharging otitis media .

Coagulase Production :

By using the tube coagulase test , the isolated staphylococci were classified into :

Coagulase +ve Staph.

Coagulase -ve Staph.

Table (4) : . Showed that , 36 isolates out of 40

(90 %) were coagulase +ve by the tube method . Only 26

of these 36 (72%) samples gave +ve reaction for coagulase when tested by slide method .

4 isolates out of 40 (10 %) were coagulase -ve by both the slide and tube method .

Table (4) : Incidence of coagulase producing staphylo-
coccal strains .

Sources	Case No.	Coagulase test	
		Slide	Tube
<u>ABCESSES:</u>			
<u>Foot</u>	4	+	+
	7	-	+
	9	+	+
	11	■	■
	32	+	■
<u>Hand</u>	6	+	+
	8	+	+
	16	-	+
	20	-	+
	25	-	+
	26	+	+
	33	+	+
	38	+	+
	39	+	+
<u>Face</u>	10	+	+
	12	+	+
	15	-	-
	19	+	+
	29	-	+
	30	-	+
	31	+	+
	34	-	+
	36	+	+
<u>Gluteal</u>	37	-	+
	22	+	+

Sources	Case No.	Coagulase test	
		Slide	Tube
<hr/>			
<u>INFECTED INCISIONS:</u>	1	-	-
	18	+	+
	21	+	+
	40	+	+
<u>INFECTED BURNS:</u>	3	+	+
	23		
	24	-	+
<u>DISCHARGING OTITIS</u>			
<u>MEDIA:</u>	2	+	+

DNase Test :

All coagulase +ve isolates were DNase +ve (100%) ,
 But , one out of four of the coagulase -ve samples
 (25%) gave positive result with the DNase test , while
 the other 3 isolates (75%) gave negative result as
 shown in Table (6) .

Results of DNase test is shown in this Table :

No. of isolates	DNase test .	
	+ve	-ve
Coagulase +ve (36 isolate)	all	
Coagulase -ve (4 isolates)	1	3

Mannitol Fermentation Test :

All the coagulase +ve isolates fermented mannitol aerobically , with only acid production .

Two isolates out of four coagulase -ve fermented mannitol with acid production , while the other two did not ferment . These results were shown in Table (6) .

No. of isolates	Mannitol fermentation test	
	+ve	-ve
Coagulase +ve (36 isolates)	all	
Coagulase -ve (4 isolates)	2	2

Haemolytic Effects Of Different Samples Of Staphylococci ;

All samples showed variable haemolytic effects on sheep blood agar plates except 4 cases which proved later to be coagulase -ve .

The results of the haemolytic activity of Staph.

aureus together with the results of the other tests

were shown in Table (6) ,

Pigment Production :

30 out of 36 isolates (83%) of coagulase +ve samples produced golden yellow pigmented colonies on milk agar plates , while the rest produced white or creamy white pigmented colonies . The colonies were surrounded by a zone of clearance due to digestion of coagulated casein .

Coagulase -ve isolates did not produce any pigment
Table (5 & 6) show the above results .

Table (5) : Pigment production by isolated staphylococci

No. of Isolates	Pigment prodction	
	golden yellow	white
Coagulase +ve	30	6
Coagulase -ve	-	4

Latex Agglutination Test :

This test gave positive results with all coagulase positive samples, and negative results with coagulase negative ones . Table (6) shows these results

No. of isolates	Latex agglutination	
	+ve	-ve
Coagulase +ve (36 sample)	all	
Coagulase -ve (4 samples)		all

Latex Agglutination Test : ---

This test gave positive results with all coagulase positive samples, and negative results with coagulase negative ones . Table (6) shows these results

No. of isolates	Latex agglutination test	
	+ve	-ve
Coagulase +ve (36 sample)	all	
Coagulase -ve (4 samples)		all

The results of DNase , mannitol fermentation test , and the latex slide agglutination test were compared to those of the tube coagulase test in Table (6) .

Induction and Latex agglutination test

[illegible]

No.	Tube Coagulase Test	DNase test	Monnitol Fermenta- tion Test	Haemolytic effect	Pigment Production		Latex Agglutina- tion Test
					Golden	White	
1	+	+	+	+	+		+
2	+	+	+	+	+		+
3	+	+	+	+	+		+
4	-	-	-	-		+	-
5	+	+	+	+	+		+
6	+	+	+	+	+		+
7	+	+	+	+	+		+
8	-	-	+	-		+	-
9	+	+	+	+	+		+
10	+	+	+	+	+		+
11	+	+	+	+	+		+
12	+	+	+	+	+		+
13	+	+	+	+	+		+
14	+	+	+	+	+		+
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41	+	+	+	+	+		+
42	+	+	+	+	+		+
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46	+	+	+	+	+		+
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48	+	+	+	+	+		+
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