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Original Article

Clinical profiling and use of loop-mediated isothermal amplification assay for rapid detection of *Mycobacterium tuberculosis* from sputum

Poudel A[1], Pandey BD[2], Lekhak B[3], Rijal B[4], Sapkota BR[5], Suzuki Y[6]

Abstract

Background:

Objectives *Mycobacterium tuberculosis*

Materials and methods 202 *Mycobacterium tuberculosis.*

Result 1 14 (3. 2%), 13 (.2 %), 133 (. %) 1 (34. %). 202 , 11 (. 3%) , 101(0%) 100 (4 . 1%) % 4.12% 1.0 % .11%

Conclusion

Key words: *M. tuberculosis,*

Mycobacterium tuberculosis 1. 200 200,000 [1].

4 % 40,000 20,000 000 [2].

Correspondence

Materials and methods

Study population and specimen collection

Microscopy and acid-fast staining

Concentration and culture

Pre-treatment and DNA extraction

Chest X-ray:

LAMP assay using sputum samples

Result

Table 1 [illegible] of 1 [illegible]

Clinical characteristics	N (%)
[illegible]	42(23[illegible])
[illegible]	14 ([illegible] 3. 2)
[illegible]	13 (.2)
[illegible]	133 (.)
[illegible]	1 (34.)
[illegible]	(44[illegible])
Others	
) b [illegible]	101(.3)
b) b [illegible]	10 (.)
) [illegible]	(3 .20)

Table 2 [illegible] of 202 [illegible] b [illegible], [illegible], [illegible]

Test	Positive N (%)	Negative N (%)
[illegible] ( )	101(0%)	101(0%)
[illegible] ( )	100(4 . %)	102(0. %)
[illegible]	103(0. %)	(4 .01%)
- [illegible] ( )	11 (. 3%)	[illegible] (43.0 %)

Table 3 [illegible] of [illegible], [illegible]. [illegible]

Microscopy (M)	Culture (C)	LAMP	X-ray (X)	Number (%)
+	+	+	+	1(4 .0)
+	+	+	-	0 (0.00)
+	+	-	+	2 (0.)
+	+	-	-	1 (0.4)
+	-	-	+	3 (1.[illegible])
+	-	+	-	1 (0.4)
+	-	-	-	3 (1.[illegible])
-	-	-	+	12(. 4)
-	-	+	+	2 (0.)
-	+	+	+	(2.[illegible])
-	-	+	-	3 (1.[illegible])
-	+	+	-	1 (0.4)
-	-	-	-	[illegible] (3 . 1)

Table 4: [illegible] of [illegible] [illegible] [illegible] [illegible]

	Microscopy			Culture		
	+	-	[illegible]	+	-	[illegible]
+	2	11	103			103
-		0		3		
[illegible]	101	101	202	100	102	202
[illegible]	1.1 %			.00%		
[illegible]	[illegible] .1 %			4.12%		
[illegible]	[illegible] .3 %			4.[illegible] %		
N [illegible]	0. %			. %		

Discussion

(3. 2%), (.2 %), (. %) (34. %). (. %) (. %), (.2 %), (43. %), (2 %)[12]. 1 , 44 % (2 = .33, 0.02). (. ., 0%). [13].

101. 1 M. tuberculosis. [14].

101 M. tuberculosis 0.

%, 4.12%, 4. %, %, 3%, %. 1.0 %, .11%, .32%, 0. 1%, . 1%, 10 %. 100% (/) 4.2% (/104) M. tuberculosis.

et al. % 4 %. %[1].

% d 1.0 % ... M. tuberculosis ...

Conclusion

... M. tuberculosis ...

Acknowledgment

[illegible]

References

1. [illegible]
2. [illegible] 2004.
3. [illegible] 2002.
4. [illegible]

[illegible] Mycobacterium tuberculosis ..., M. avium, d M. intracellulare ... 2003 41( ) 2 1 –22.

[illegible]

[illegible] Mycobacterium tuberculosis ... 43 –43.

10. [illegible]
11. [illegible] ycobacterium tuberculosis d Mycobacterium leprae ... 200 (1) 12- .
12. [illegible] 10 (1) 11-4.
13. [illegible] ( ). [illegible] 4 -4.
14. [illegible]

1 . [illegible] 200 , 4 , 1 3 –40.