

EQA round: PAT2/21 - Direct Antiglobulin Test

Deadline: 19.11.2021

Key:	>>> ... marks correct (expected) result	N ... number of the results
	> ... marks conditionally correct (acceptable) result	Nrel ... relative number of the results
	± ... marks the result not evaluated	

Test

Sample	Group	N	Result	N _{rel}	
(1001) DAT (direct Coombs test)					
1	(1) Column agglutination - automat	>	3 Positive (1+)	3,5 %	
		>>>	10 Positive (2+)	12 %	
		>	6 Positive (3+)	7,1 %	
	(2) Column agglutination - manual	>	7 Positive (1+)	8,2 %	
		>>>	45 Positive (2+)	53 %	
		>	11 Positive (3+)	13 %	
		>	2 Positive (4+)	2,4 %	
	(3) Tube test	>	1 Positive (1+)	1,2 %	
	Total per sample: n = 85		Success: 100 %	-----	
	2	(1) Column agglutination - automat	>	2 Positive (2+)	2,4 %
>>>			14 Positive (3+)	16 %	
>			3 Positive (4+)	3,5 %	
(2) Column agglutination - manual		>	1 Positive (1+)	1,2 %	
		>	3 Positive (2+)	3,5 %	
		>>>	50 Positive (3+)	59 %	
		>	11 Positive (4+)	13 %	
(3) Tube test		>	1 Positive (2+)	1,2 %	
Total per sample: n = 85		Success: 100 %	-----		
Total success: 100 %					

(1002) Sensitization specificity anti-IgG

1	(0) Not specified	>	1 Positive (3+)	2,5 %
	(1) Column agglutination - automat	>	1 Positive (1+)	2,5 %
		>>>	1 Positive (2+)	2,5 %
	(2) Column agglutination - manual		1 Negative	2,5 %
		>	3 Positive (1+)	7,5 %
		>>>	26 Positive (2+)	65 %
		>	5 Positive (3+)	13 %
	>	2 Positive (4+)	5,0 %	
Total per sample: n = 40		Success: 98 %	-----	
2	(0) Not specified	>	1 Positive (4+)	2,5 %
	(1) Column agglutination - automat	>>>	2 Positive (3+)	5,0 %
	(2) Column agglutination - manual	>	2 Positive (2+)	5,0 %
		>>>	30 Positive (3+)	75 %
		>	5 Positive (4+)	13 %
Total per sample: n = 40		Success: 100 %	-----	
Total success: 98 %				

(1003) Sensitization specificity anti-IgA

1	(1) Column agglutination - automat	>>>	1 Negative	3,2 %
	(2) Column agglutination - manual	>>>	30 Negative	97 %
	Total per sample: n = 31		Success: 100 %	-----
2	(1) Column agglutination - automat	>>>	1 Negative	3,2 %
	(2) Column agglutination - manual	>>>	30 Negative	97 %
Total per sample: n = 31		Success: 100 %	-----	
Total success: 100 %				

(1004) Sensitization specificity anti-IgM

1	(1) Column agglutination - automat	>>>	1 Negative	3,2 %
	(2) Column agglutination - manual	>>>	30 Negative	97 %
	Total per sample: n = 31		Success: 100 %	-----
2	(1) Column agglutination - automat	>>>	1 Negative	3,2 %
	(2) Column agglutination - manual	>>>	30 Negative	97 %
Total per sample: n = 31		Success: 100 %	-----	
Total success: 100 %				

(1005) Sensitization specificity anti-C3c

1	(0) Not specified	>>>	1 Negative	3,1 %
	(1) Column agglutination - automat	>>>	1 Negative	3,1 %
	(2) Column agglutination - manual	>>>	30 Negative	94 %
Total per sample: n = 32		Success: 100 %	-----	
2	(0) Not specified	>>>	1 Negative	3,1 %
	(1) Column agglutination - automat	>>>	1 Negative	3,1 %
	(2) Column agglutination - manual	>>>	30 Negative	94 %
Total per sample: n = 32		Success: 100 %	-----	
Total success: 100 %				

Test			N	Result	N _{rel}
Sample	Group				
(1006) Sensitization specificity anti-C3d					
1	(1) Column agglutination - automat	>>>	2	Negative	5,6 %
	(2) Column agglutination - manual	>>>	33	Negative	92 %
	(3) Tube test	>>>	1	Negative	2,8 %
----- Total per sample: n = 36 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	2	Negative	5,6 %
	(2) Column agglutination - manual	>>>	33	Negative	92 %
	(3) Tube test	>>>	1	Negative	2,8 %
----- Total per sample: n = 36 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1008) Col. agglut: Quantif. IgG-DAT					
1	(1) Column agglutination - automat	>	1	1:10	4,3 %
	(2) Column agglutination - manual	>	13	1:10	57 %
		>>>	8	1:30	35 %
		>	1	1:300	4,3 %
----- Total per sample: n = 23 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>	1	1:30	4,3 %
	(2) Column agglutination - manual	>	10	1:30	43 %
		>>>	11	1:100	48 %
		>	1	1:300	4,3 %
----- Total per sample: n = 23 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1009) Col. agglut: Subclass IgG1 1:1					
1	(1) Column agglutination - automat	>>>	1	Negative	4,5 %
	(2) Column agglutination - manual	>>>	21	Negative	95 %
----- Total per sample: n = 22 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	1	Positive (1+)	4,5 %
	(2) Column agglutination - manual	>	9	Negative	41 %
		>>>	9	Positive (1+)	41 %
		>	3	Positive (2+)	14 %
----- Total per sample: n = 22 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1010) Col. agglut: Subclass IgG1 1:100					
1	(1) Column agglutination - automat	>>>	1	Negative	4,8 %
	(2) Column agglutination - manual	>>>	20	Negative	95 %
----- Total per sample: n = 21 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	1	Negative	4,8 %
	(2) Column agglutination - manual	>>>	20	Negative	95 %
----- Total per sample: n = 21 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1011) Col. agglut: Subclass IgG3 1:1					
1	(1) Column agglutination - automat	>>>	1	Negative	4,5 %
	(2) Column agglutination - manual	>>>	21	Negative	95 %
----- Total per sample: n = 22 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	1	Negative	4,5 %
	(2) Column agglutination - manual	>>>	21	Negative	95 %
----- Total per sample: n = 22 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1012) Col. agglut: Subclass IgG3 1:100					
1	(1) Column agglutination - automat	>>>	1	Negative	4,8 %
	(2) Column agglutination - manual	>>>	20	Negative	95 %
----- Total per sample: n = 21 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	1	Negative	4,8 %
	(2) Column agglutination - manual	>>>	20	Negative	95 %
----- Total per sample: n = 21 -----		Success: 100 %	-	-	-
Total success: 100 %					
(1019) AB0 blood group					
1	(1) Column agglutination - automat	>>>	13	Blood group: 0	24 %
	(2) Column agglutination - manual	>>>	19	Blood group: 0	35 %
	(3) Tube test	>>>	20	Blood group: 0	36 %
	(4) Solid phase	>>>	2	Blood group: 0	3,6 %
	(99) Another measurement principle	>>>	1	Blood group: 0	1,8 %
----- Total per sample: n = 55 -----		Success: 100 %	-	-	-
2	(1) Column agglutination - automat	>>>	13	Blood group: A	24 %
	(2) Column agglutination - manual	>>>	19	Blood group: A	35 %
	(3) Tube test	>>>	20	Blood group: A	36 %
	(4) Solid phase	>>>	2	Blood group: A	3,6 %

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Test		N	Result	N _{rel}
Sample	Group			
2	(99) Another measurement principle	>>> 1	Blood group: A	1,8 %
----- Total per sample: n = 55 -----		Success: 100 %		
Total success: 100 %				
(1020) Rh D antigen				
1	(1) Column agglutination - automat	>>> 13	Negative (RhD-)	24 %
	(2) Column agglutination - manual	>>> 19	Negative (RhD-)	35 %
	(3) Tube test	>>> 22	Negative (RhD-)	40 %
	(99) Another measurement principle	>>> 1	Negative (RhD-)	1,8 %
----- Total per sample: n = 55 -----		Success: 100 %		
2	(1) Column agglutination - automat	>>> 13	Negative (RhD-)	24 %
	(2) Column agglutination - manual	>>> 18	Negative (RhD-)	33 %
		1	Positive (RhD+)	1,8 %
	(3) Tube test	>>> 21	Negative (RhD-)	38 %
		1	w/v (RhD weak/variant)	1,8 %
	(99) Another measurement principle	>>> 1	Negative (RhD-)	1,8 %
----- Total per sample: n = 55 -----		Success: 96 %		
Total success: 96 %				
(1021) Antigen C				
1	(1) Column agglutination - automat	>>> 6	Negative	14 %
	(2) Column agglutination - manual	>>> 23	Negative	52 %
	(3) Tube test	>>> 13	Negative	30 %
	(4) Solid phase	>>> 1	Negative	2,3 %
	(99) Another measurement principle	>>> 1	Negative	2,3 %
----- Total per sample: n = 44 -----		Success: 100 %		
2	(1) Column agglutination - automat	>>> 6	Negative	14 %
	(2) Column agglutination - manual	>>> 23	Negative	52 %
	(3) Tube test	>>> 13	Negative	30 %
	(4) Solid phase	>>> 1	Negative	2,3 %
	(99) Another measurement principle	>>> 1	Negative	2,3 %
----- Total per sample: n = 44 -----		Success: 100 %		
Total success: 100 %				
(1022) Antigen c				
1	(1) Column agglutination - automat	>>> 6	Positive	14 %
	(2) Column agglutination - manual	>>> 23	Positive	52 %
	(3) Tube test	>>> 13	Positive	30 %
	(4) Solid phase	>>> 1	Positive	2,3 %
	(99) Another measurement principle	>>> 1	Positive	2,3 %
----- Total per sample: n = 44 -----		Success: 100 %		
2	(1) Column agglutination - automat	>>> 6	Positive	14 %
	(2) Column agglutination - manual	>>> 23	Positive	52 %
	(3) Tube test	>>> 13	Positive	30 %
	(4) Solid phase	>>> 1	Positive	2,3 %
	(99) Another measurement principle	>>> 1	Positive	2,3 %
----- Total per sample: n = 44 -----		Success: 100 %		
Total success: 100 %				
(1023) Antigen Cw				
1	(1) Column agglutination - automat	>>> 2	Negative	5,6 %
	(2) Column agglutination - manual	>>> 18	Negative	50 %
	(3) Tube test	>>> 14	Negative	39 %
	(4) Solid phase	>>> 1	Negative	2,8 %
	(99) Another measurement principle	>>> 1	Negative	2,8 %
----- Total per sample: n = 36 -----		Success: 100 %		
2	(1) Column agglutination - automat	>>> 2	Negative	5,6 %
	(2) Column agglutination - manual	>>> 18	Negative	50 %
	(3) Tube test	>>> 14	Negative	39 %
	(4) Solid phase	>>> 1	Negative	2,8 %
	(99) Another measurement principle	>>> 1	Negative	2,8 %
----- Total per sample: n = 36 -----		Success: 100 %		
Total success: 100 %				
(1024) Antigen E				
1	(1) Column agglutination - automat	>>> 6	Negative	14 %
	(2) Column agglutination - manual	>>> 23	Negative	52 %
	(3) Tube test	>>> 13	Negative	30 %
	(4) Solid phase	>>> 1	Negative	2,3 %
	(99) Another measurement principle	>>> 1	Negative	2,3 %
----- Total per sample: n = 44 -----		Success: 100 %		

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Test		N	Result	N _{rel}
Sample	Group			
2	(1) Column agglutination - automat	>>>	6 Negative	14 %
	(2) Column agglutination - manual	>>>	23 Negative	52 %
	(3) Tube test	>>>	13 Negative	30 %
	(4) Solid phase	>>>	1 Negative	2,3 %
	(99) Another measurement principle	>>>	1 Negative	2,3 %
Total per sample: n = 44		Success: 100 %		
Total success: 100 %				
(1025) Antigen e				
1	(1) Column agglutination - automat	>>>	6 Positive	14 %
	(2) Column agglutination - manual	>>>	23 Positive	52 %
	(3) Tube test	>>>	13 Positive	30 %
	(4) Solid phase	>>>	1 Positive	2,3 %
	(99) Another measurement principle	>>>	1 Positive	2,3 %
Total per sample: n = 44		Success: 100 %		
2	(1) Column agglutination - automat	>>>	6 Positive	14 %
	(2) Column agglutination - manual	>>>	23 Positive	52 %
	(3) Tube test	>>>	13 Positive	30 %
	(4) Solid phase	>>>	1 Positive	2,3 %
	(99) Another measurement principle	>>>	1 Positive	2,3 %
Total per sample: n = 44		Success: 100 %		
Total success: 100 %				
(1026) Antigen K				
1	(1) Column agglutination - automat	>>>	6 Negative	13 %
	(2) Column agglutination - manual	>>>	24 Negative	52 %
	(3) Tube test	>>>	14 Negative	30 %
	(4) Solid phase	>>>	1 Negative	2,2 %
	(99) Another measurement principle	>>>	1 Negative	2,2 %
Total per sample: n = 46		Success: 100 %		
2	(1) Column agglutination - automat	>>>	6 Positive	13 %
	(2) Column agglutination - manual	>>>	24 Positive	52 %
	(3) Tube test	>>>	14 Positive	30 %
	(4) Solid phase	>>>	1 Positive	2,2 %
	(99) Another measurement principle	>>>	1 Positive	2,2 %
Total per sample: n = 46		Success: 100 %		
Total success: 100 %				
(1027) Antigen k				
1	(2) Column agglutination - manual	>>>	7 Positive	30 %
	(3) Tube test	>>>	16 Positive	70 %
Total per sample: n = 23		Success: 100 %		
2	(2) Column agglutination - manual	>>>	7 Positive	30 %
	(3) Tube test	>>>	16 Positive	70 %
Total per sample: n = 23		Success: 100 %		
Total success: 100 %				
(1028) Antigen M				
1	(2) Column agglutination - manual	>>>	5 Positive	20 %
	(3) Tube test	>>>	20 Positive	80 %
Total per sample: n = 25		Success: 100 %		
2	(2) Column agglutination - manual	>>>	5 Positive	20 %
	(3) Tube test	>>>	20 Positive	80 %
Total per sample: n = 25		Success: 100 %		
Total success: 100 %				
(1029) Antigen N				
1	(2) Column agglutination - manual	>>>	5 Positive	22 %
	(3) Tube test	>>>	18 Positive	78 %
Total per sample: n = 23		Success: 100 %		
2	(2) Column agglutination - manual	>>>	5 Positive	22 %
	(3) Tube test	>>>	18 Positive	78 %
Total per sample: n = 23		Success: 100 %		
Total success: 100 %				
(1030) Antigen S				
1	(2) Column agglutination - manual	>>>	3 Negative	12 %
			1 Positive	3,8 %
	(3) Tube test	>>>	19 Negative	73 %
			2 Positive	7,7 %
(99) Another measurement principle	>>>	1 Negative	3,8 %	
Total per sample: n = 26		Success: 88 %		

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Test	Sample	Group	N	Result	N _{rel}
	2	(2) Column agglutination - manual	>>> 4	Positive	15 %
		(3) Tube test	>>> 21	Positive	81 %
		(99) Another measurement principle	>>> 1	Positive	3,8 %
	Total per sample: n = 26		Success: 100 %		
	Total success: 88 %				
(1031) Antigen s					
	1	(2) Column agglutination - manual	>>> 4	Positive	21 %
		(3) Tube test	>>> 14	Positive	74 %
		(99) Another measurement principle	>>> 1	Positive	5,3 %
	Total per sample: n = 19		Success: 100 %		
	2	(2) Column agglutination - manual	>>> 4	Positive	21 %
		(3) Tube test	>>> 14	Positive	74 %
		(99) Another measurement principle	>>> 1	Positive	5,3 %
	Total per sample: n = 19		Success: 100 %		
	Total success: 100 %				
(1032) Antigen P1					
	1	(2) Column agglutination - manual	>>> 4	Negative	18 %
		(3) Tube test	>>> 17	Negative	77 %
			1	Positive	4,5 %
	Total per sample: n = 22		Success: 95 %		
	2	(2) Column agglutination - manual	>>> 4	Positive	18 %
		(3) Tube test	>>> 18	Positive	82 %
	Total per sample: n = 22		Success: 100 %		
	Total success: 95 %				
(1033) Antigen Jka					
	1	(2) Column agglutination - manual	>>> 7	Positive	24 %
		(3) Tube test	>>> 21	Positive	72 %
		(99) Another measurement principle	>>> 1	Positive	3,4 %
	Total per sample: n = 29		Success: 100 %		
	2	(2) Column agglutination - manual		1 Not specified	3,4 %
			>>> 6	Positive	21 %
		(3) Tube test	>>> 21	Positive	72 %
		(99) Another measurement principle	>>> 1	Positive	3,4 %
	Total per sample: n = 29		Success: 97 %		
	Total success: 97 %				
(1034) Antigen Jkb					
	1	(2) Column agglutination - manual	>>> 6	Positive	21 %
		(3) Tube test		1 Negative	3,6 %
			>>> 19	Positive	68 %
		(4) Solid phase	>>> 1	Positive	3,6 %
		(99) Another measurement principle	>>> 1	Positive	3,6 %
	Total per sample: n = 28		Success: 96 %		
	2	(2) Column agglutination - manual	>>> 6	Positive	21 %
		(3) Tube test	>>> 20	Positive	71 %
		(4) Solid phase	>>> 1	Positive	3,6 %
		(99) Another measurement principle	>>> 1	Positive	3,6 %
	Total per sample: n = 28		Success: 100 %		
	Total success: 96 %				
(1035) Antigen Lea					
	1	(2) Column agglutination - manual	>>> 4	Negative	21 %
		(3) Tube test	>>> 15	Negative	79 %
	Total per sample: n = 19		Success: 100 %		
	2	(2) Column agglutination - manual	>>> 4	Positive	21 %
		(3) Tube test	>>> 15	Positive	79 %
	Total per sample: n = 19		Success: 100 %		
	Total success: 100 %				
(1036) Antigen Leb					
	1	(2) Column agglutination - manual	>>> 4	Positive	21 %
		(3) Tube test	>>> 15	Positive	79 %
	Total per sample: n = 19		Success: 100 %		
	2	(2) Column agglutination - manual	>>> 4	Negative	21 %
		(3) Tube test	>>> 14	Negative	74 %
			1	Positive	5,3 %
	Total per sample: n = 19		Success: 95 %		
	Total success: 95 %				