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AFDT Proficiency Testing Results – March, 2013

Summary Report – Cell Sendout:

This AFDT Proficiency Test Cell Sendout (AFDT-PTCS) consists of 5 anti-coagulated whole blood samples which, as closely as possible, represent actual patient samples as they are received by HLA laboratories for clinical testing. Federal regulations require that all PT samples must be handled and tested exactly like those clinical samples that are received in each laboratory on a routine basis. These AFDT-PTCS samples meet all mandates and guidelines for proficiency testing.

Grading:

AFDT grades HLA DNA typing at 2 levels : 1) Antigen level 2) High resolution. Since we are now also grading Serology results, enter Antigen results ONLY if you do DNA typing and it should be a “translation” of the DNA type to the antigens that would be entered in UNET. (Please see the AFDT-PTCS master instructions for details.) In addition, low resolution HLA typing results may also be entered into the PT software. The 2 digit low resolution results are not graded (the Antigen level result translated from DNA typing is graded), but group results are shared for informational/educational purposes. Results obtained by serology (CDC) method are graded separately and should not be entered in the Antigen results.

AFDT-PTCS consists of 4 graded analytes:

- 1) HLA-Class I antigen level typing – This level of resolution must meet the requirements for HLA typing results entered in UNET. (ie. Low resolution typing *B*15* must be converted to the appropriate antigen as would be entered for a patient in UNET – *B62, B63, B71, etc.*)
- 2) HLA-Class I high resolution typing – This level of resolution will be graded for the first 4 digits only (ie. *A*01:01:01* will be entered and graded as *A*01:01*).

If there are any ambiguities which cannot be resolved, the most common and likely allele is reported (ie. *A*03:01/03:31* will be entered and accepted as *A*03:01*. The rare *A*03:31* allele can be reported in the comment section for that entry.) In the event an ambiguity includes multiple possible common alleles, the lab should make every effort to resolve the ambiguity.

- 3) HLA-Class II antigen level typing (see additional comments in #1)
- 4) HLA-Class II high resolution typing (see additional comments in #2)

The graded results of these analytes of the AFDT-PTCS reflect the guidelines and standards as set out by CLIA, UNOS, ASHI, and CAP standards, and may be submitted to those same accrediting agencies as fulfilling the requirements for yearly proficiency testing in all areas of HLA testing offered by the AFDT-PT program.

See the master AFDT-PT instructions for further details.

Results:

The following are summary tables of the consensus results of each cell of the March 2013 Proficiency Test. Consensus results are given for antigen level typing, high resolution, serology, and low resolution. Antigen level (by DNA), High resolution DNA typing and Serology (CDC) typing results are graded.

Overall consensus was excellent across all methods.

HLA Typing Summary Report

Consensus Results - March 2013 - Ev01

Cell **527**

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	2	100	02:01	100	02	100	2	100
A	24	100	24:02	100	24	100	24	100
B	35	100	35:01	100	35	100	35	100
B	44	100	44:02	100	44	100	44	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	4	100	04:01	100	04	100	4	88
C	7	100	07:04	100	07	94	7	88
DR	11	100	11:01	100	11	100	11	100
DR	13	100	13:01	100	13	100	13	100
DRw	52	100	DRB3=01:01	100	DRB3=P	100	52	100
			DRB4=ND	100	DRB4=N	100		
			DRB5=ND	100	DRB5=N	100		
DRw	BL	72	DRB3=02:02	100			BL	78
			DRB4=BL	100				
			DRB5=BL	100				
DQ	7	100	03:01	100	03	94	7	100
DQ	BL	83	BL	78	BL	88	BL	87
#Labs	18		9		17		9	

Comments:

Consensus Results - March 2013 - Ev01

Cell 528

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	2	100	02:01	100	02	100	2	100
A	3	100	03:01	100	03	100	3	100
B	7	100	07:02	100	07	100	7	100
B	62	100	15:01	100	15	100	62	100
Bw4	N	100	n/a	0	N	100	N	100
Bw6	P	100	n/a	0	P	100	P	100
C	7	100	03:03	100	03	100	7	100
C	9(3)	100	07:02	100	07	100	9(3)	100
DR	11	100	11:03	100	11	100	11	100
DR	15	100	15:01	100	15	100	15	100
DRw	51	100	DRB3=02:02	100	DRB3=P	100	51	100
			DRB4=ND	44	DRB4=N	100		
			DRB5=01:01	100	DRB5=P	100		
DRw	52	100	DRB3=BL	100			52	100
			DRB4=BL	100				
			DRB5=BL	100				
DQ	6	100	03:01	100	03	94	6(1)	100
DQ	7	100	06:02	100	06	100	7	100
#Labs	18		9		17		9	

Comments:

Consensus Results - March 2013 - Ev01

Cell 529

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	1	100	01:01	100	01	100	1	100
A	11	100	11:01	100	11	100	11	100
B	38	100	38:02	100	38	100	38	100
B	55	100	55:01	100	55	100	55	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	7	100	03:03	100	03	100	7	100
C	9(3)	100	07:02	100	07	100	9(3)	100
DR	9	100	09:01	100	09	100	9	100
DR	13	100	13:01	100	13	100	13	100
DRw	52	100	DRB3=02:02	100	DRB3=P	100	52	100
			DRB4=01:03	100	DRB4=P	100		
			DRB5=ND	100	DRB5=N	100		
DRw	53	100	DRB3=BL	100			53	100
			DRB4=BL	100				
			DRB5=BL	100				
DQ	6	100	03:03	100	03	94	6(1)	100
DQ	9	100	06:03	100	06	100	9(3)	100
#Labs	18		9		17		9	

Comments:

Consensus Results - March 2013 - Ev01

Cell 530

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	11	100	11:01	100	11	100	11	100
A	29	100	29:02	100	29	100	29	100
B	55	100	55:01	100	55	100	55	100
B	57	100	57:01	100	57	100	57	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	6	94	03:03	100	03	100	6	88
C	9(3)	100	06:02	100	06	94	9(3)	100
DR	4	100	04:07	100	04	100	4	100
DR	7	100	07:01	100	07	100	7	100
DRw	53	100	DRB3=ND	100	DRB3=N	94	53	100
			DRB4=01:03	100	DRB4=P	94		
			DRB5=ND	100	DRB5=N	100		
DRw	BL	44	DRB3=BL	100			BL	89
			DRB4=01:03	100				
			DRB5=BL	100				
DQ	7	100	03:01	100	03	94	7	100
DQ	9	100	03:03	100	03	94	9(3)	100
#Labs	18		9		17		9	

Comments:

Consensus Results - March 2013 - Ev01

Cell 531

Locus	Antigen	% Cons	Hi Res	% Cons	Lo Res	% Cons	Serology	% Cons
A	66	94	66:02	100	66	100	66	89
A	68	100	68:01	100	68	100	68(28)	100
B	35	100	35:03	100	35	100	35	100
B	57	100	57:03	100	57	100	57	100
Bw4	P	100	n/a	0	P	100	P	100
Bw6	P	100	n/a	0	P	100	P	100
C	4	100	04:01	100	04	100	4	100
C	18	94	18:02	100	18	94	BL	78
DR	1	100	01:01	100	01	100	1	100
DR	16	100	16:02	100	16	100	16	100
DRw	51	100	DRB3=ND	100	DRB3=N	100	51	100
			DRB4=ND	100	DRB4=N	100		
			DRB5=02:02	100	DRB5=P	100		
DRw	BL	89	DRB3=BL	100			BL	89
			DRB4=BL	100				
			DRB5=BL	100				
DQ	5	100	05:01	100	05	100	5(1)	100
DQ	BL	67	05:02	100	BL	71	BL	89
#Labs	18		9		17		9	

Comments:

Additional reporting of HLA-DQA and DPA and DPB results for these cells were also received. Though there are not enough labs reporting these loci for us to grade at this time, the labs that perform them are given coded results of all labs to determine consensus for accreditation purposes. Should the number of labs reporting HLA-DQA, DPA, and/or DPB reach 10, we can officially offer graded results for these loci. The consensus among the labs reporting these antigens was good.

Special thanks to Marilyn Langan for maintaining the AFDT database and providing excellent technical support to the AFDT Proficiency Testing Program.