



## Criteria for Grading

1. **B-cell line Exchange** – class I/II molecular typing
  - a. Consensus is based on a minimum of 10 labs reporting and  $\geq 90\%$  agreement among labs for HLA-A, B, C, DRB1, DQA1, DQB1, and DPA1 loci. For DRB3/4/5 and DPB1 loci, consensus is based on 80% agreement.
  - b. Results falling within the consensus are graded as satisfactory.
  - c. For loci presumed to be homozygous, the second field will be graded as satisfactory if either a blank is reported (A\*02, -) or the antigen/allele is reported twice (A\*02, A\*02).
2. **Serum Exchange** – class I/II antibody identification
  - a. Consensus is based on a minimum of 10 labs reporting and  $\geq 90\%$  agreement among labs.
  - b. Assignment of  $\geq 80\%$  of antibody specificities falling within consensus will be graded as satisfactory.
3. **KIR Exchange** – KIR genotyping
  - a. Consensus is based on a minimum of 10 labs reporting and  $\geq 90\%$  of labs reporting the positive/negative assignments for individual KIR loci.
  - b. Results falling within the consensus are graded as satisfactory.
  - c. Loci reported as not tested (NT) will not be included in the grading analysis.
4. **MICA Exchange** – MICA genotyping
  - a. Consensus is based on a minimum of 10 labs reporting and  $\geq 80\%$  agreement among labs.
  - b. Results falling within the consensus are graded as satisfactory.
  - c. For loci presumed to be homozygous, the second field will be graded as satisfactory if either a blank is reported (MICA\*002, -) or the allele is reported twice (MICA\*002, MICA\*002).
5. **Single antigen, Flow and Virtual Crossmatch Exchange**
  - a. **Flow Crossmatch** – T/B-cell Flow cytometric crossmatch
    - I. Consensus is based on a minimum of 10 labs reporting and 80% agreement among labs reporting positive/negative assignments.
    - II. Results falling within the consensus are graded as satisfactory. Results reported as borderline are not graded.
  - b. **Serum Evaluation** - class I/II antibody identification
    - I. Consensus is based on a minimum of 10 labs reporting and 90% agreement among labs.
    - II. Assignment of  $\geq 80\%$  of antibody specificities with  $\geq 90\%$  consensus will be graded as satisfactory.
  - c. **Paper Challenge** (educational exercise)
    - I. Virtual predictions – virtual prediction of physical crossmatch
      1. Consensus is based on a minimum of 10 labs reporting and 80% agreement among labs reporting positive/negative assignments.
      2. Results falling within the consensus are marked as satisfactory. Results reported as borderline are not graded.
    - II. DSA Assignment – identification of donor specific antibodies
      1. Consensus based on a minimum of 10 labs reporting and 90% agreement among labs.
      2. Assignment of all antibody specificities with  $\geq 90\%$  consensus is required to be marked as satisfactory.