

**Name of Journal:** World Journal of Transplantation

**Manuscript NO:** 35348

**Manuscript Type:** MINIREVIEWS

**HLA Typing and Crossmatch: A Comprehensive Review**

**Conflict-of-interest statement:** There is no conflict of interest associated with any of the senior author or other co-authors contributed their efforts in this manuscript.

Althaf MM et al. HLA typing/ crossmatch/ renal transplantation

Mohammed Mahdi Althaf, Mohsen El Kossi, Jon Kim Jin, Ajay Sharma, Ahmed Halawa

**Mohammed Mahdi Althaf, Mohsen El Kossi, Jon Kim Jin, Ajay Sharma, Ahmed Halawa,**  
Faculty of Health and Science, University of Liverpool, Institute of Learning and Teaching, School  
of Medicine, Liverpool, L69 3GB, United Kingdom

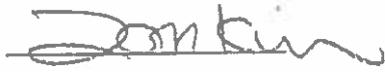
**Mohammed Mahdi Althaf,** Jack Pryor Renal Unit, Norfolk and Norwich University Hospital –  
NHS Foundation Trust, Norwich, NR4 7UY, United Kingdom



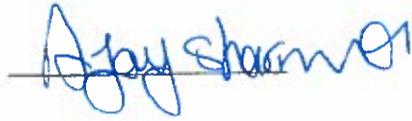
**Mohsen El Kossi,** Doncaster Royal Infirmary, Doncaster, DN2 5LT, United Kingdom



**Jon Kim Jin**, Nottingham Children Hospital, Nottingham, NG7 2UH, United Kingdom



**Ajay Sharma** Royal Liverpool University Hospitals, Liverpool, L7 8XP, United Kingdom



**Ahmed Halawa** Sheffield Teaching Hospitals, Herries Road, Sheffield, S5 7AU, United Kingdom



**Author contributions:** Althaf MM performed the majority of the writing, prepared the figures and tables; Sharma A performed input to structure, content and wrote the abstract; El Kossi M and Jin JK performed input to content; Halawa A designed the outline, performed input to content and coordinated the writing of the paper.