List of suggested material useful for ESHI Exam preparation

Textbooks
The following all have chapters that give basic background on the HLA Complex / HLA and transplantation:


The immunological barriers to regenerative medicine. PJ Fairchild (Ed), ISBN: 978-1-4614-5479-3

Papers
The following are review papers, key research papers, guidelines or websites.

Section 4: Innate and adaptive immunity
REVIEW ARTICLE
Innate Immunity
R Medzhitov, C Janeaway
NEJM, 2000, 343, 338.

REVIEW ARTICLE
Cooperation of Toll-like receptor signals in innate immune defence
Giorgio Trinchieri and Alan Sher
Nature Reviews Immunology, 2007, 7, 179.

REVIEW ARTICLE
Innate lymphoid cells and the MHC
M. L. Robinette & M. Colonna
HLA, 2016, 87, 5–12

Section 5: Transplant immunology
REVIEW ARTICLE
Minor histocompatibility antigens: past, present, and future
Eric Spierings
Tissue Antigens, 2014, 84, 347–360

REVIEW ARTICLE
Allorecognition Pathways in Transplant Rejection and Tolerance
Transplantation, 2013, 96(8), 681-8

KEY PAPER
List of suggested material useful for ESHI Exam preparation

Clinical Relevance of Pretransplant Donor-Specific HLA Antibodies Detected by Single-Antigen Flow-Beads
Patrizia Amico, Gideon Honger, Michael Mayr, Jurg Steiger, Helmut Hopfer and Stefan Schaub
Transplantation, 2009; 87 (11), 1681

Section 7: Relevant techniques in H&I Services
KEY PAPER
Ten-Year Experience of Selective Omission of the Pretransplant Crossmatch Test in Deceased Donor Kidney Transplantation
Craig J. Taylor, Vasilis Kosmoliaptsis, Linda D. Sharples, Davide Prezzi, C. Helen Morgan, Timothy Key, Afzal N. Chaudhry, Irum Amin, Menna R. Clatworthy, Andrew J. Butler, Christopher J.E. Watson and J. Andrew Bradley
Transplantation, 2010; 89 (2); 185

KEY PAPER
Martina Schnaidt, Christof Weinstock, Marija Jurisic, Barbara Schmid-Horch, Andrea Ender, and Dorothee Wernet
Transplantation, 2011; 92(5): 510-5

REVIEW ARTICLE
HLA Antibody Detection With Solid Phase Assays: Great Expectations or Expectations Too Great?
H. M. Gebel and R. A. Bray

REVIEW ARTICLE
Solid phase HLA antibody detection technology – challenges in interpretation
B. D. Tait, F. Hudson, G. Brewin, L. Cantwell & R. Holdsworth
Tissue Antigens 2010, 76, 87–95

KEY PAPER
Determinants of C1q Binding in the Single Antigen Bead Assay
Stefan Schaub, Gideon Honger, Michael T. Koller, Robert Liwski and Patrizia Amico
Transplantation. 2014; 98(4):387-93

Section 8: Genetics and Molecular Genetics
REVIEW ARTICLE
KIR and KIR ligand polymorphism: a new area for clinical applications?
M. Falco, L. Moretta, A. Moretta & C. Bottino
Tissue Antigens, 2013, 82, 363–373

Section 9: Biostatistics and Bioinformatics
WEBSITE
Allele frequencies in worldwide populations
http://allelefrequencies.net/

WEBSITE
List of suggested material useful for ESHI Exam preparation

IMGT HLA
http://www.ebi.ac.uk/ipd/imgt/hla/allele.html

Section 10: Clinical Relevance of H&I in Solid Organ Transplantation
GUIDELINE DOCUMENT
Guidelines for the detection and characterisation of clinically relevant antibodies in allotransplantation
A collaborative publication by:
British Society for Histocompatibility & Immunogenetics
(www.bshi.org.uk)
British Transplantation Society
(www.bts.org.uk)
Available from the BSHI website

KEY PAPER
Complement-Binding Anti-HLA Antibodies and Kidney-Allograft Survival
Alexandre Loupy, Carmen Lefaucheur et al

KEY PAPER
Acquisition of C3d-Binding Activity by De Novo Donor-Specific HLA Antibodies Correlates With Graft Loss in Nonsensitized Pediatric Kidney Recipients
P. Comoli, M. Cioni, A. Tagliamacco et al
American Journal of Transplantation, 2016

Section 11: Clinical Relevance of H&I in HSCT
GUIDELINE DOCUMENT
Guidelines for selection and HLA matching of related, adult unrelated donors and umbilical cord units for haematopoietic progenitor cell transplantation.
A collaborative publication by:
United Kingdom Paediatric Bone Marrow Transplant Group.
http://www.cclg.org.uk
British Society for Histocompatibility and Immunogenetics
http://www.bshi.org.uk
The British Transplantation Society
secretariat@bts.org.uk
British Society for Blood and Marrow Transplantation
mail@bsbmt.org
Royal College of Pathologists
www.rcpath.org
Institute of Biomedical Science
www.ibms.org
Available from the BSHI website

Section 12: Clinical Relevance of H&I in Transfusion
REVIEW ARTICLE
Clinical relevance of the HLA system in blood transfusion
List of suggested material useful for ESHI Exam preparation

C. J. Brown & C. V. Navarrete
Vox Sanguinis, 2011, 101(2):93-105

KEY PAPER
Low-level HLA antibodies do not predict platelet transfusion failure in TRAP study participants
Rachael P. Jackman, Xutao Deng, Douglas Bolgiano, Mila Lebedeva, John W. Heitman, Michael P. Busch, Sherrill J. Slichter and Philip J. Norris
Blood 2013, 121(16):3261-3266

WEBSITE
Serious Hazards of Transfusion (UK)
http://www.shotuk.org/shot-reports/

Section 13: Clinical Relevance of H&I in disease, cancer and pharmacogenetic testing
REVIEW ARTICLE
HLA and disease: guilt by association
Martin Howell

REVIEW ARTICLE
Associations of human leukocyte antigens with autoimmune diseases: challenges in identifying the mechanism
Hiroko Miyadera and Katsushi Tokunaga

KEY PAPER
Immune self-reactivity triggered by drug-modified HLA-peptide repertoire
Nature 2012, 486, 554

Section 14: Organ allocation and enhancing donation rates
KEY PAPER
Survival Benefit with Kidney Transplants from HLA Incompatible Live Donors

REVIEW ARTICLE
Kidney paired donation: fundamentals, limitations, and expansions
Gentry SE, Montgomery RA, Segev DL
Am J Kidney Dis. 2011, 57(1):144-51