

**Suppl. Table 1A IS patients characteristics**

Transplant Patient ID Number	Age	Gender (M/F)	Race <sup>1</sup> (C, AA, H)	Etiology of Organ Failure	Transplant <sup>9</sup> (K, L)	Initial IS regimen	IS regimen on date of 2nd blood sample
4	57	M	C	HCV <sup>2</sup>	L	Prograf, S <sup>10</sup>	Prograf, S, Aza
5	49	M	C	HCV	L	Prograf, S	Prograf, S, Aza
9	68	M	C	ETOH <sup>3</sup> /HCC <sup>4</sup>	L	Prograf, S, Aza <sup>11</sup>	Prograf, S
11	59	M	AA	HCV/ETOH	L	Prograf, S, Aza	Sirolimus, MMF, S
12	49	M	AA	Chronic Interstitial Nephritis	K	Sim	Prograf, S, MMF
14	65	M	AA	Lupus	K	MMF, S, Sim <sup>12</sup>	Prograf, S, MMF
15	59	M	C	Polycystic Kidney Disease	K	Prograf, S, MMF <sup>13</sup> , Sim	Prograf, S, MMF
17	59	F	C	PBC <sup>5</sup>	L	Prograf, S, Aza	Prograf, S, MMF
22	47	M	C	Cholangitis	L	Prograf, S, MMF	Prograf, S, MMF
24	53	M	AA	HCV	L	Prograf, S, Aza	Prograf, S, Aza
26	73	M	C	PSC <sup>6</sup>	L	Prograf, S, Aza	Prograf, S, Aza
30	29	F	C	Cystic Fibrosis	L	Prograf, S	Prograf, S, Aza
34	25	M	AA	Biliary Atresia/HCV	L	Prograf, S, Aza	Prograf, S, Aza
37	62	M	C	HCV	L	Prograf, S, Aza	Prograf, S, Aza
39	59	F	C	HCV	L	Prograf, S, Aza	Prograf, S, Aza
40	57	M	C	HCV	L	Prograf, S, Aza	Prograf, S, Aza
42	63	M	C	NASH <sup>7</sup>	L	Prograf, S	Prograf, S, Aza
43	53	M	AA	HBV <sup>8</sup>	L	Prograf, S, MMF	Prograf, S, Aza
44	57	M	AA	HCV	L	Prograf, S, MMF	Prograf, S, MMF
45	64	F	C	ETOH	L	Prograf, S, MMF	Prograf, S, MMF
46	43	M	C	Cryptogenic	L	Prograf, S, MMF	Prograf, S, MMF
47	54	M	C	ETOH	L	Prograf, S, Aza	Prograf, S, Aza
48	56	M	C	HCV	L	Prograf, S	Prograf, S, MMF

49	58	M	H	NASH	L	Prograf, S, Aza	Prograf, S, Aza
50	59	F	C	HCV	L	Prograf, S, MMF	Prograf, S, MMF
51	53	M	C	HCV	L	Prograf, S, Aza	Prograf, S, Aza
52	54	M	C	PSC	L	Prograf, S, MMF	Prograf, S, MMF
53	39	M	C	Cryptogenic	L	Prograf, S, Aza	Prograf, S, Aza
54	61	M	C	HCV	L	Prograf, S, Aza	Prograf, S
56	64	M	C	Autoimmune	L	Prograf, S, Aza	Prograf, S, Aza
57	55	M	C	HCV	L	Prograf, S, Aza	Prograf, S
58	65	M	`	ETOH	L	Prograf, S, MMF	Prograf, S, MMF
59	59	M	AA	HCV/HCC	L	Prograf, S, MMF	Prograf, S, MMF
60	65	M	AA	Hepatopulmonary syndrome	L	Prograf, S, Aza	Prograf, S, Aza

<sup>1</sup>Race: C - Caucasian, AA - Afro-American, H - Hispanic

<sup>2</sup> HCV - hepatitis C virus

<sup>3</sup>ETOH - alcohol

<sup>4</sup>HCC - hepatocellular carcinoma

<sup>5</sup>PBC - primary biliary cirrhosis

<sup>6</sup>PSC - primary sclerosing cholangitis

<sup>7</sup>NASH - non-alcoholic steatohepatitis

<sup>8</sup>HBV - hepatitis B virus

<sup>9</sup>Transplant: K - kidney, L - liver

<sup>10</sup>S - steroids

<sup>11</sup>Aza – Azathioprine

<sup>12</sup>Sim – Simulect

<sup>13</sup>MMF - mycophenolate mofetil

**Suppl. Table 1B Characteristics of healthy controls**

<b>Healthy subject ID</b>	<b>Age</b>	<b>Gender</b>	<b>Race</b>
2233	39	M	AA
1301	52	M	AA
1598	58	F	AA
6523	58	F	AA
6634	38	F	A <sup>1</sup>
1030	43	F	AA
1887	42	M	AA
7601	53	F	AA
1317	24	F	C
1813	57	M	AA
3266	51	M	C
8133	52	M	AA
1181	24	F	AA
1323	50	M	C
1715	45	M	C
9890	42	M	C

<sup>1</sup>A - Asian

**Suppl. Table 1C Characteristics of comorbid controls**

<b>Comorbid Subject ID #</b>	<b>Age</b>	<b>Gender</b>	<b>Race</b>	<b>Diagnosis</b>
1	51	F	C	ETOH
2	42	M	AA	HCV
4	72	M	C	HBV
5	61	M	C	HCV
6	61	M	AA	HCV
7	56	F	AA	HCV
8	61	F	C	HCV
9	64	M	H	HCV
10	48	M	C	HCV
11	61	M	C	ETOH
12	59	F	AA	HCV
13	59	M	AA	HCV/HCC
14	54	F	C	AIH <sup>1</sup>
15	45	M	C	NASH
16	43	M	AA	PSC/AIH
17	57	M	C	HCV
18	32	M	C	PSC
19	57	M	C	HCV
20	55	F	C	PBC

<sup>1</sup>AIH – autoimmune hepatitis

Other abbreviations are listed in legend to supplementary Table 1