

Supplementary file 1: Socio-demographic and clinical characteristics of the patients who developed secondary erythrocytosis among patients who attended Merhano National Referral MDR-TB Hospital, Eritrea from June 2011 to January 2021

#	Sex	Age (years)	Baseline body weight (kg)	Residential altitude (meter)	Comorbidity	Organ injury	Drugs taken prior to secondary erythrocytosis	Baseline		Time to onset	Outcome
								Hb (g/dL)	Hct %		
1	M	44	46	2325	None	Unassessed	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser,	11.5	35.5	5 months	Recovered
2	M	70	49	2170	None	No	KM, Lfx, Eto, Cs, Z, Vit-B6	13.4	41.6	5 months	Unknown
3	F	28	38	2170	Asthma	No	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser,	15.2	45.4	5 months	Recovered
4	M	30	42	1050	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser, Levothyroxine	11.6	35.5	23 months	Unknown
5	M	27	40	2325	None	No	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser,	15.3	47.3	3 months	Recovered
6	M	33	55	1420	None	No	KM, Lfx, Eto, Cs, Z, Vit-B6	15.1	43.4	4 months	Recovered
7	M	61	45	2325	None	Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser,	16.7	49.7	2 months	Recovered
8	M	20	54	1860	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Paser, Levothyroxine	17.1	51.6	12 months	Unknown
9	M	26	60	2170	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	15.6	52.7	14 months	Unknown
10	M	45	56	2325	HIV	No	KM, Lfx, Eto, Cs, Z, Vit-B6, Atripla	17.1	55.1	9 months	Unknown
11	M	52	54	6	DM	Renal injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Insulin	15.1	48.2	5 months	Recovered

12	M	50	55	2325	HIV	Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Atripla	14.7	42.4	4 months	Recovered
13	M	37	53	2325	None	Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6	17.5	48.5	2 months	Unknown
14	M	48	81	2325	None	Renal injury	KM, Lfx, Eto, Cs, Z, Vit-B6	17.2	51.1	1 months	Unknown
15	M	39	44	-	None	No	KM, Lfx, Eto, Cs, Z, Vit-B6	15.1	42.6	3 months	Recovered
16	M	22	48	2060	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	17.6	50.7	6 months	Unknown
17	M	29	50	1420	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	15.5	46.7	2 months	Unknown
18	M	23	49	2325	None	Hypothyroidism	Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	17.6	48.9	4 months	Unknown
19	M	37	54	16	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, CM, Levothyroxine	16.3	44.9	10 months	Recovered
20	M	29	64	2060	None	Hypothyroidism Liver injury Kidney injury	KM, Lfx, Eto, Cs, Z, Vit-B6, CM, Levothyroxine	16.3	47.6	19 months	Recovered
21	M	80	38	2170	None	Hypothyroidism Kidney injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Clarithromycin, Augumentin, Levothyroxine	13.6	42.3	3 months	Recovered
22	M	51	54	2170	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	14.6	41.9	14 months	Recovered
23	M	23	67	-	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	17.8	50.8	1 months	Unknown
24	M	24	24	-	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Clarithromycin, Levothyroxine	13.1	40.1	24 months	Recovered

25	M	33	49	2325	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Clarithromycin, Levothyroxine	11.2	32.5	23 months	Unknown
26	M	37	55	2440	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	16.1	47.5	1 months	Recovered
27	M	27	47	2325	None	Hypothyroidism Liver injury	KM, Lfx, Eto, Cs, Z, Vit-B6, Levothyroxine	14.2	43.8	16 months	Recovered
28	M	61	52	2325	None	Hypothyroidism Liver injury Kidney injury	KM, Lfx, Eto, Cs, Z, Vit-B6, CM, Levothyroxine	12.6	43.3	4 months	Recovered
29	F	35	52	2325	None	Hypothyroidism	KM, Lfx, Eto, Cs, Z, Vit-B6, Augumentin, Clarithromycin, Ethambutol, Levothyroxine	15.4	45.2	10 months	Recovered
30	M	29	55	881	Psychiatric illness	No	KM, Lfx, Eto, Cs, Z, Vit-B6, CM, CPZ, Floxetine	15.4	47.8	4 months	Unknown
31	M	48	73	1050	DM	No	KM, Lfx, Eto, Cs, Z, Vit-B6, Metformin, Glibenclamide	17.0	51.3	1 months	Recovered

KM: Kanamycin; Lfx: Levofloxacin; Eto: Ethionamide; Cs: Cycloserine; Z: Pyrazinamide; CM: Capreomycin; CPZ: Chlorpromazine; DM: Diabetes mellitus; HIV: Human Immunodeficiency Syndrome; Hb: Hemoglobin; Hct: Hematocrit

Unknown outcome: indicates that the patient was either lost to follow-up or died after being diagnosed with secondary erythrocytosis prior to blood parameters measurement