

S3 Additional file

Standard Transition Probability Matrix Sets developed for use in Markov Model

Each TPMS correspond to a different intervention

Each TPMS is presented in a different page of this document

Each TPMS contains three TP matrices (one matrix for each STH species).

Summary

	1st round	2nd round
TPMS 1	albendazole	albendazole
TPMS 2	mebendazole	mebendazole
TPMS 3	albendazole	No intervention
TPMS 4	mebendazole	No intervention
TPMS 5	Albendazole+ IVR	albendazole
TPMS 6	Albendazole+ IVR	mebendazole
TPMS 7	Albendazole+ DEC	albendazole
TPMS 8	Albendazole+ DEC	mebendazole
TPMS 9	Albendazole+ IVR	No intervention
TPMS 10	Albendazole+ DEC	No intervention

TPMS 1 1st round ALB 2nd rounc ALB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8110	0.1170	0.0720	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.6271	0.2926	0.0803	0.0000
CS2	0.5101	0.4096	0.0803	0.0000
CS3	0.2544	1.2040	0.0504	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7250	0.2200	0.0550	0.0000
CS2	0.6540	0.3240	0.0220	0.0000
CS3	0.1500	0.7700	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 2 1st round MEB 2nd round MEB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8110	0.1170	0.0720	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000
	CS1-CS2	CS1-CS3	CS2-CS2	CS3-CS2

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.7040	0.1756	0.1204	0.0000
CS2	0.5101	0.4096	0.0803	0.0000
CS3	(0.0035)	0.9632	0.0403	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7030	0.2200	0.0770	0.0000
CS2	0.5510	0.4050	0.0440	0.0000
CS3	(0.1700)	1.0500	0.1200	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 3 1st round ALB 2nd round No intervention

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.9530	0.0230	0.0240	0.0000
CS2	0.7100	0.2300	0.0600	0.0000
CS3	0.6650	0.2600	0.0750	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.8044	0.1476	0.0480	0.0000
CS2	0.6650	0.2870	0.0480	0.0000
CS3	0.2850	0.6400	0.0750	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.9706	0.0110	0.0184	0.0000
CS2	0.8788	0.1139	0.0074	0.0000
CS3	0.6800	0.2860	0.0340	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 4 1st round MEB 2nd round No intervention

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.9530	0.0230	0.0240	0.0000
CS2	0.7100	0.2300	0.0600	0.0000
CS3	0.6650	0.2600	0.0750	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.9535	0.0364	0.0101	0.0000
CS2	0.8989	0.0910	0.0101	0.0000
CS3	0.8633	0.1280	0.0088	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.9010	0.0440	0.0550	0.0000
CS2	0.7028	0.2752	0.0220	0.0000
CS3	0.1500	0.7700	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 5 1st round ALB+IVR 2nd round ALB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8680	0.0780	0.0540	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.9640	0.0260	0.0100	0.0000
CS2	0.8990	0.0910	0.0100	0.0000
CS3	0.8740	0.1208	0.0052	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7580	0.1980	0.0440	0.0000
CS2	0.6540	0.3240	0.0220	0.0000
CS3	0.2200	0.7000	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 6 1st round ALB+IVR 2nd rounc MEB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8680	0.0780	0.0540	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.8831	0.0729	0.0440	0.0000
CS2	0.6725	0.2835	0.0440	0.0000
CS3	0.4000	0.5600	0.0400	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7360	0.2200	0.0440	0.0000
CS2	0.6540	0.3240	0.0220	0.0000
CS3	0.2200	0.7000	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 7 1st round ALB+DEC 2nd round ALB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8680	0.0780	0.0540	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.8831	0.0729	0.0440	0.0000
CS2	0.6725	0.2835	0.0440	0.0000
CS3	0.4000	0.5600	0.0400	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7360	0.2200	0.0440	0.0000
CS2	0.6540	0.3240	0.0220	0.0000
CS3	0.2200	0.7000	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 8 1st round ALB+DEC 2nd round MEB

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8680	0.0780	0.0540	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.9640	0.0260	0.0100	0.0000
CS2	0.8990	0.0910	0.0100	0.0000
CS3	0.8740	0.1208	0.0052	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.7360	0.2200	0.0440	0.0000
CS2	0.6540	0.3240	0.0220	0.0000
CS3	0.2200	0.7000	0.0800	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 9 1st round ALB+IVR 2nd round No Intervention

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8929	0.0351	0.0720	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.9535	0.0364	0.0101	0.0000
CS2	0.8989	0.0910	0.0101	0.0000
CS3	0.8633	0.1280	0.0088	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.9706	0.0110	0.0184	0.0000
CS2	0.8788	0.1139	0.0074	0.0000
CS3	0.6800	0.2860	0.0340	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

TPMS 10 1st round ALB+DEC 2nd round No intervention

Ascaris lumbricoides

	CS1	CS2	CS3	CS4
CS1	0.8968	0.0312	0.0720	0.0000
CS2	0.4300	0.3900	0.1800	0.0000
CS3	0.3700	0.4800	0.1500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Trichuris trichiura

	CS1	CS2	CS3	CS4
CS1	0.8588	0.0972	0.0440	0.0000
CS2	0.6725	0.2835	0.0440	0.0000
CS3	0.3900	0.5600	0.0500	0.0000
CS4	1.0000	0.0000	0.0000	0.0000

Hookworms

	CS1	CS2	CS3	CS4
CS1	0.9128	0.0327	0.0545	0.0000
CS2	0.6546	0.3236	0.0218	0.0000
CS3	0.1650	0.7590	0.0760	0.0000
CS4	1.0000	0.0000	0.0000	0.0000