

Supplemental Table 1. Mean arterial blood pressure (MAP) in low-dose, standard-dose and standard care at baseline, 3, 6, 9, and 12 months for the 26 patients completing the study*

	Low-dose Rapamycin (n=9)	Standard-dose Rapamycin (n=8)	Standard Care (n=9)
Baseline MAP† (n=26)	93.8 ± 7.6 (n=9)	100.0 ± 9.1 (n=8)	90.1 ± 7.5 (n=9)
3-month MAP† (n=26)	92.2 ± 9.3 (n=9)	95.9 ± 12.1 (n=8)	88.7 ± 10.7 (n=9)
6-month MAP† (n=26)	91.1 ± 8.1 (n=9)	99.0 ± 6.6 (n=8)	91.9 ± 7.6 (n=9)
9-month MAP† (n=26)	87.6 ± 7.9 (n=9)	95.9 ± 4.2 (n=8)	92.3 ± 8.8 (n=9)
12-month MAP† (n=26)	92.5 ± 12.1 (n=9)	102.7 ± 5.4 (n=8)	93.8 ± 10.1 (n=9)

*Overall MAP levels were higher in the standard-dose rapamycin group as compared to the low-dose rapamycin group ($P=0.03$) and the standard care group ($P=0.01$), but there was no significant changes in MAP levels over time by group ($P=0.34$) or time overall ($P=0.26$).

†mmHg, ± SD

Supplemental Table 2. Rapamycin trough blood levels during the 12 month course of low-dose or standard-dose rapamycin*

	Low-Dose	Standard-Dose
Week 1	2.90 ± 1.20† (9)	4.34 ± 2.58† (8)
Week 2	2.76 ± 1.32 (9)	4.71 ± 2.53 (8)
Week 4	2.62 ± 1.18 (9)	3.93 ± 2.27 (8)
Week 6	2.55 ± 0.72 (8)	4.69 ± 1.85 (8)
Month 3	2.73 ± 4.61 (8)	4.61 ± 1.72 (7)
Month 6	2.55 ± 0.76 (8)	4.23 ± 1.65 (6)
Month 9	2.40 ± 0.64 (7)	5.77 ± 1.06 (6)
Month 12	2.68 ± 0.26 (5)	4.60 ± 1.02 (4)

*Based on the results of the mixed model, low-dose patients had significantly lower trough levels of rapamycin than standard-dose patients over the course of the study ($P<0.001$).

† ng/mL, mean ± SD

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Supplemental Table 3. Total liver volume (TLV) and changes during 12 months of rapamycin treatment or standard care*

	Low-dose Rapamycin (n=10)	Standard-dose Rapamycin (n=10)	Standard Care (n=10)	P Value†
Baseline TLV‡ (n=30)	1,711.2 ± 315.3 (n=10)	2,136.8 ± 678.0 (n=10)	2,128.9 ± 956.3 (n=10)	0.24
6-month TLV‡ TLV change‡ (n=29)	1,787.2 ± 303.6 51.7 ± 92.9 (n=10)	1,913.7 ± 477.0 -68.1 ± 53.6 (n=9)	2,195.9 ± 1,024.8 67.0 ± 202.3 (n=10)	0.12
12-month TLV‡ TLV change‡ (n=26)	1,825.6 ± 380.4 90.0 ± 149.7 (n=9)	1,811.9 ± 313.9 -51.1 ± 89.5 (n=8)	2,314.7 ± 1,268.1 177.0 ± 336.0 (n=9)	0.18

* Mixed model results indicated no significant differences in overall group levels ($P=0.46$), changes in group over time ($P=0.69$) or overall changes over time ($P=0.70$)

†P value based on ANOVA

‡cc, mean ± SD

Supplemental Table 4. Changes in hemoglobin, platelet count, fasting LDL cholesterol and triglycerides, and serum magnesium at baseline and after 12 months of rapamycin or standard care

	Low-dose Rapamycin LD (n=10)	Standard-dose Rapamycin STD (n=10)	Standard Care SC (n=10)	P Value*
Hemoglobin (g/dL)†‡ 12 month change (g/dL)‡	14.2 ± 1.5 -0.6 ± 1.1	14.4 ± 1.3 -0.1 ± 1.0	14.6 ± 0.7 -0.5 ± 0.7	0.78 0.60
Platelet count (k/µL)†‡ 12 month change (k/µL)‡	226.9 ± 32.3 12.3 ± 29.3	255.0 ± 26.9 17.6 ± 28.6	231.1 ± 37.4 -19.4 ± 27.4	0.01 0.02§
LDL cholesterol (mg/dL)†‡ 12 month change (mg/dL)‡	99.7 ± 36.2 12.0 ± 38.7	111.4 ± 27.7 1.2 ± 23.0	112.9 ± 19.7 -15.4 ± 21.3	0.49 0.13
Triglycerides (mg/dL)†‡ 12 month change (mg/dL)‡	105.5 ± 57.2 -2.0 ± 43.5	141.4 ± 77.6 3.3 ± 54.9	145.2 ± 79.0 -22.7 ± 90.6	0.22 0.32
Serum magnesium (mg/dL)†‡ 12 month change (mg/dL)‡	2.2 ± 0.3 -0.1 ± 0.3	2.1 ± 0.3 -0.1 ± 0.2	2.1 ± 0.2 0.0 ± 0.2	0.70 0.50

*P value based on ANOVA

†baseline

‡mean, ± SD

§P value for adjusted (Tukey) pairwise comparisons: LD vs SC P=0.05, STD vs SC P=0.02, LD vs STD P=0.91, LD+STD vs SC P=0.005

Supplemental Table 5. Additional medications during 12 months of rapamycin or standard care.

	Low-dose Rapamycin LD (n=10)	Standard-dose Rapamycin STD (n=10)	Standard Care SC (n=10)	P Value*
ACEI†	4	4	6	0.72
ARB†	7	10	6	0.15
ACEI and/or ARB	9	10	9	>0.99
ACEI and ARB	2	4	3	0.88
Statin	7	8	7	>0.99
Triglyceride lowering medication‡	1	4	2	0.43
Statin and/or Triglyceride lowering medication	8	8	7	>0.99
Statin and Triglyceride lowering medication	0	4	2	0.12
Diuretic§	0	6	2	0.01**

*P value based on Chi-square test

† angiotensin converting enzyme inhibitor (ACEI), angiotensin receptor blocker (ARB)

‡ fibric acid derivative or omega-3

§ see text for explanation of diuretic use

**adjusted (Bonferroni) pairwise comparisons: LD vs SC P=0.47, STD vs SC P=0.17, LD vs STD P=0.01, LD+STD vs SC P=0.68

Supplemental Figure 1

Title:

Total Kidney Volume (TKV) with absolute change during 12 months of rapamycin treatment or standard care

Caption:

P value based on ANOVA: baseline *P*=0.54; change at 12 months *P*=0.33. Mean (\pm SD), median, 25th, and 75th percentile change in TKV: (LD) 197.7 (\pm 201.2), 143.0, 126.0, and 201.0 cc, respectively; (STD) 82.9 (\pm 111.3), 51.5, 30.5, 81.5 cc, respectively; and (SC) 152.7 (\pm 129.4), 129.0, 52.0, and 189.0 cc, respectively.

