Supplemental Tables

Table SI. Hematocrit (Hct), platelet, white blood cell (WBCs) and polymorphonuclear leukocyte (PMNs) counts in untreated C57Bl/6J (WT), eNOS deficient (KO) and cross-transplanted chimeras.

Group	Hct (%)		Platelets (10^3)		WBCs (10^3)		PMNs (10^3)	
Untreated								
WT	39.9 ± 0.8	n=9	1285 ± 91.9	n=8	38.0 ± 4.2	n=9	9.8 ± 0.9	n=9
KO	40.1 ± 0.8	n=7	1541 ± 88.0	n=7	39.9 ± 4.3	n=7	10.4 ± 1.0	n=7
BC+/EC+	43.9 ± 0.9	n=14	1665 ± 116.5	n=7	63.6 ± 7.2	n=10	16.1 ± 3.0	n=7
BC-/EC+	40.2 ± 2.1	n=5	1181 ± 413.0	n=2	85.5 ± 3.0	n=3	25.1 ± 1.3*	n=3
BC+/EC-	41.7 ± 1.2	n=12	1511 ± 69.0	n=13	49.4 ± 12.0	n=10	17.2 ± 3.3	n=10
BC-/EC-	42.6 ± 0.8	n=11	1510 ± 102.1	n=9	56.0 ± 7.7	n=5	14.3 ± 1.9	n=5

Using One-way ANOVA and Bonferroni post-hoc test: * denotes P < .05 vs WT.

Table SII. Platelet, white blood cell (WBCs) and polymorphonuclear leukocyte (PMNs) counts in BC+/EC- and BC-/EC- chimeras before and after platelet- (APS) or leukocyte-depleting (anti-CD45 Ab) treatment.

* denotes P < 0.05 and ** denotes P<0.0001 using one-way ANOVA and Bonferroni post-hoc test.

Group	Platelets (10^3)		WBCs (10^3)		PMNs (10^3)	
	Pre	Post	Pre	Post	Pre	Post
APS						
BC+/EC- (n=5)	1557± 62.8	128.0 ± 17.8**		20.2 ± 5.4		9.8 ± 1.0
BC-/EC- (n=8)	1571± 92.4	120.0 ± 18.1**		21.2 ± 5.9		7.5 ± 0.6
Anti-CD45 Ab						
BC+/EC- (n=3)			61.7± 1.2	20.9 ± 8.1**	21.5± 3.4	10.5 ± 7.1*
BC-/EC- (n=4)			62.0± 6.3	10.9 ± 2.2**	16.1± 0.8	3.6 ± 0.4 *

Using One-way ANOVA and Bonferroni post-hoc test: * denotes P<.05 and ** denotes P < .0001 vs pre-treatment.

Table SIII. Baseline systolic and diastolic blood pressures of cross-transplanted eNOS$^{-/-}$ chimeras during hours of daylight and darkness.

Group	Systolic BP		Diastolic BP	
	Day	Night	Day	Night
	AUC (mmHg)		**AUC (mmHg)**	
BC+/EC+ (n=4)	1111	1263	825.3	974.4
BC-/EC+ (n=3)	1263	1317	1083	1130
BC+/EC- (n=3)	1230	1415	962.1	1121
BC-/EC- (n=4)	1325	1553	1051	1219
	p-value		**p-value**	
BC-/EC+ vs **BC+/EC+**	0.0053*	0.2729	0.0006**	0.0160*
BC+/EC- vs **BC-/EC-**	0.0494*	0.1488	0.0385*	0.1351
BC+/EC- vs **BC-/EC+**	0.6026	0.0010*	0.0445*	0.7572

Day: 0600 to 1800 hours, Night: 1800 to 0600 hours. Group averages calculated for each 2 hour interval and area under the curve (AUC) by Two-way ANOVA with Bonferroni post-hoc test. * denotes $p < 0.05$ and ** denotes $p < 0.005$.
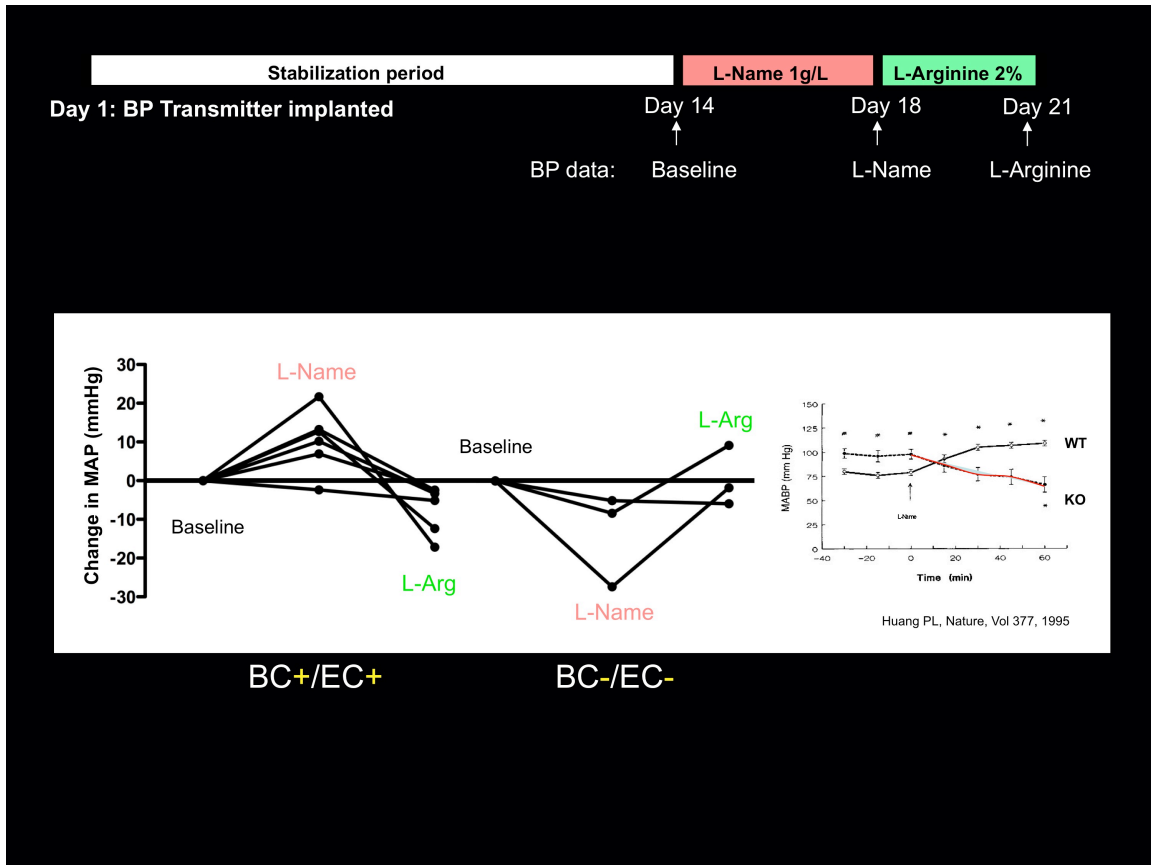
Supplemental Figure I

Figure SI. Paradoxical response to L-NAME of BC-/EC- mice, similar to Harvard eNOS$^{-/-}$ mice. Harvard BC+/EC+ chimeras (n = 5) and BC-/EC- chimeras (n = 3) after oral treatment with L-NAME or L-Arg. Blood pressure data for individual animals shown as solid lines. Comparison of MAP responses to L-NAME treatment by WT and Harvard eNOS KO mice, as reported by Huang et al. (inset graph).[13]