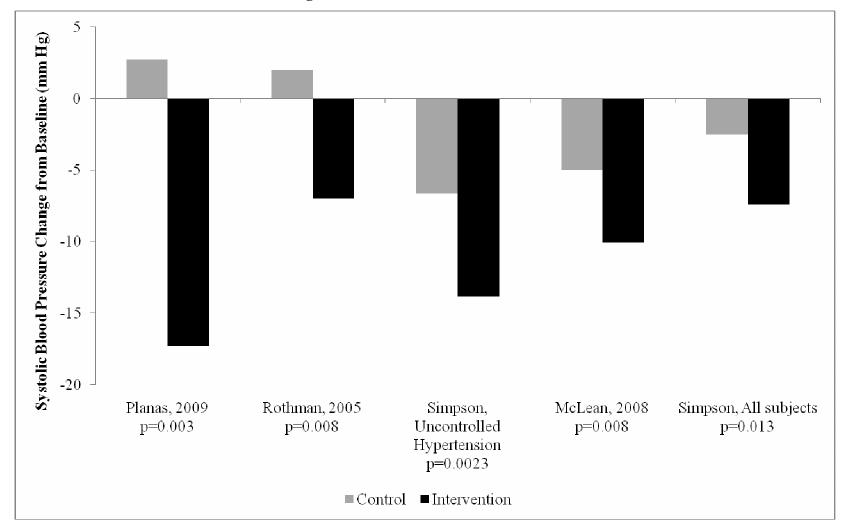
Supplementary Table 1. Randomized Controlled Trials Examining the Effect of Pharmacist Intervention on Blood Pressure Management in Diabetes as the Primary Outcome (Study Characteristics)

Study	Setting / Inclusion Criteria /	# Patients	Duration	Pharmacist's Activities		
	Sample Size Estimate	(withdrawals)	(months)			
Rothman RL,	University-based General Internal	217	12	3 specially trained (Certified Diabetes Educator) pharmacists		
2005	Medicine Practice	(23 [11%])		1-hour patient educational session		
USA	Patient referred to a Pharmacist-led	(- L · J/		Evidence-based treatment algorithms for BG, BP, lipids		
	diabetes management clinic			Follow-up every 2-4 weeks either by phone or in-person		
	$A_1c \ge 8\%$			Medication changes made by pharmacists through a		
	Based on 10 mmHg difference in SBP			collaborative agreement for prescriptive authority		
	and 1% absolute difference in A1c					
McLean DL,	Pharmacist-Nurse team in community	227	6	Pharmacist-Nurse team provided education on BP: as a risk		
2008	pharmacies	(16 [7%])		factor, causes of high BP, consequences of high BP,		
Canada	BP > 130/80			diabetes& BP, lifestyle strategies to decrease BP		
	Based on 10 mmHg difference in SBP			Medication management recommendations sent to physician		
Planas, 2009	Community pharmacies	52	9	Medication therapy management program		
USA	Sub-study of a diabetes management	(12 [24%])		Brief physical exam with BP measurement		
	study			Education on role of medications & encouraged adherence		
	A1c>7% (main study)			Medication management recommendations sent to physician		
	BP ≥130/80 or using an					
	antihypertensive medication					
	Sample size not estimated					

Supplementary Figure 1. Systolic Blood Pressure Changes (Primary Outcome) in Randomized Controlled Trials of Pharmacist Intervention in Diabetes Management



Supplementary Table 2. Changes in Cardiovascular Risk Factors

Parameter	Mean Change f	Mean Difference†		
	Control Group	Intervention Group	(95% CI)	
A1c (%)	0.03 (-0.22 to 0.28)	-0.15 (-0.36 to 0.05)	-0.18 (-0.51 to 0.14)	
Systolic BP (mmHg)	-2.5 (-5.2 to 0.1)	-7.4 (-10.2 to -4.6)‡	-4.9 (-8.7 to -1.0)§	
Diastolic BP (mmHg)	0.6 (-1.4 to 2.6)	-2.3 (-4.3 to -0.4)‡	-2.9 (-5.6 to -0.2)§	
Total Cholesterol (mmol/L)	-0.09 (-0.25 to 0.07)	-0.23 (-0.41 to -0.05)‡	-0.14 (-0.38 to 0.10)	
LDL (mmol/L)	-0.10 (-0.24 to 0.05)	-0.23 (-0.38 to -0.08)‡	-0.14 (-0.33 to 0.07)	
HDL (mmol/L)	0.02 (-0.01 to 0.06)	0.01 (-0.02 to 0.04)	-0.02 (-0.06 to 0.03)	
Triglycerides (mmol/L)	0.09 (-0.09 to 0.27)	-0.09 (-0.26 to 0.07)	-0.18 (-0.43 to 0.06)	
Total/HDL Ratio	-0.16 (-0.29 to -0.03)‡	-0.25 (-0.39 to -0.11)‡	-0.09 (-0.28 to 0.11)	
UKPDS Risk Engine Score(19) (%)	-1.2 (-2.4 to 0.1)	-2.7 (-3.9 to -1.5)‡	-1.5 (-3.3 to 0.2)	

95% CI = 95% Confidence Interval; BP = Blood Pressure; LDL = Low Density Lipoprotein; HDL = High Density Lipoprotein

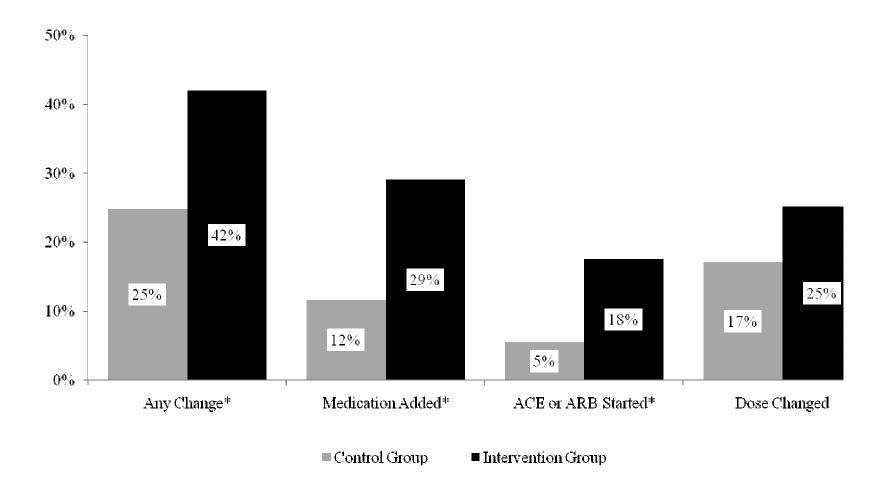
†Negative values indicate Intervention Group has larger change, Positive values indicate Control Group has larger change ‡paired t-test, p<0.05

§ANOVA, p<0.05

 $\|$ Mann-Whitney U, p<0.05

^{*}Negative values indicate decrease from baseline, Positive values indicate increase from baseline

Supplementary Figure 2. Proportion of Subjects Who had Changes to Their Antihypertensive Medications



^{*}p<0.05 (Chi Square)

Supplementary Table 3. Healthcare-Related Contacts Recorded During Study

Healthcare Resource	Intervention (n=131)			Control (n=129)		
	Number of Patients with ≥1 Contact	Total Number of Contacts	Contacts Per Patient*	Number of Patients with ≥1 Contact	Total Number of Contacts	Contacts Per Patient*
All Resources†	131	1439	10 (7-15)	129	438	2 (2-4)
All Resources (excluding pharmacists)	131	238	3 (1-6)	129	197	2 (2-5)
Study Pharmacist†	131	1201	9 (6-12)	129	241	2 (2-2)
Nurse	18 (14%)	47	2 (1-4)	28 (22%)	47	2 (1-3)
Dietician	10 (8%)	16	1 (1-2)	13 (10%)	15	1 (1-2)
Optometrist	30 (23%)	38	1 (1-1)	25 (19%)	22	1 (1-1)
Podiatrist	8 (6%)	31	3 (1-6)	6 (5%)	7	1 (1-1)
Endocrinologist	5 (4%)	13	3 (2-3)	9 (7%)	18	2 (1-2)
Cardiologist	5 (4%)	8	1 (1-2)	8 (6%)	15	1 (1-2)
Nephrologist	4 (3%)	7	2 (2-2)	1 (1%)	2	2
Ophthalmologist	31 (24%)	42	1 (1-1)	39 (30%)	47	1 (1-1)
Diabetes Education	3 (2%)	4	1 (1-2)	7 (5%)	8	1 (1-1)
Centre						
Health Link	1 (1%)	1	1	1	1	1
Emergency Room Visit	11 (8%)	26	1 (1-3)	11 (9%)	11	1 (1-1)
Hospitalization	4 (3%)	5	1 (1-2)	5 (4%)	4	1 (1-1)

^{*}Reported as Median (Interquartile Range) per patient

[†]Mann-Whitney U Test (p<0.01)