

Supplemental Material

Table S1. Intervention elements based on the “5As” for CKD-MIT medication therapy management.^{1,2}

Process category of “5As”	Intervention elements
1. Assessment	Determine medication problems and discrepancies
2. Advice	Answer questions or concerns Carry updated medication list Avoid contraindicated medicines
3. Agreement	Take medication Manage the medication list
4. Assistance	Plan for medication-taking Inform providers about medication practices Overcome barriers to medication management
5. Arrangements	Adjust doses for kidney function Assistance from caregivers Update and verify medication list Obtain medicine Report concerns to providers

References

1. Glasgow RE, Emont S, Miller DC. Assessing delivery of the five “As” for patient-centered counseling. *Health Promot Int* 2006;21:245-255.
2. Jack BW, Chetty VK, Anthony D, Greenwald JL, Sanchez GM, Johnson AE, Forsythe SR, O'Donnell JK, Paasche-Orlow MK, Manasseh C, Marin S, Culpepper L. A reengineered hospital discharge program to decrease rehospitalization. *Ann Intern Med* 2009;150:178-187.

Table S2. Medication classes by study group at baseline in CKD-MIT (n=141)

Medication Class	All Study Participants (Baseline N=141)		Usual Care Group (Baseline N=69)		Medication Intervention Group (Baseline N=72)		p value
	n/N	(%)	n/N	(%)	n/N	(%)	
ACE inhibitors and ARB	65/141	(46)	33/69	(48)	32/72	(44)	0.69
Diuretics	85/141	(60)	47/69	(68)	38/72	(53)	0.06
Other anti-hypertensive agents	98/141	(70)	49/69	(71)	49/72	(68)	0.70
Insulin	52/141	(37)	26/69	(38)	26/72	(36)	0.85
Oral hypoglycemic agents	32/141	(23)	19/69	(28)	13/72	(18)	0.18
Statins	86/141	(61)	42/69	(61)	44/72	(61)	0.98
Aspirin	80/141	(57)	35/69	(51)	45/72	(63)	0.16
Other platelet inhibitors	29/141	(21)	15/69	(22)	14/72	(19)	0.74
Anticoagulants	35/141	(25)	18/69	(26)	17/72	(24)	0.73
Nitrates	30/141	(21)	12/69	(17)	18/72	(25)	0.27
Antibiotics	33/141	(23)	16/69	(23)	17/72	(24)	0.95
Proton pump inhibitors	52/141	(37)	28/69	(41)	24/72	(33)	0.37
Other gastrointestinal agents	46/141	(33)	15/69	(22)	23/72	(32)	0.17
Vitamin D supplements	72/141	(51)	36/69	(52)	36/72	(50)	0.80
Uric acid lowering agents	30/141	(21)	16/69	(23)	14/72	(19)	0.59
Psychotropic agents	69/141	(49)	35/69	(51)	34/72	(47)	0.68
Opioid agents	46/141	(33)	19/69	(28)	27/72	(38)	0.21
Acetaminophen	48/141	(34)	26/69	(38)	22/72	(31)	0.37
Thyroid hormone	37/141	(26)	22/69	(32)	15/72	(21)	0.14

Abbreviations: angiotensin converting enzyme (ACE), angiotensin receptor blockers (ARB)

Table S3. Serious adverse events and adverse events in CKD-MIT

Type of Event	All Study Participants (Baseline N=141)		Usual Care Group (Baseline N=69)		Medication Intervention Group (Baseline N=72)		p value
Serious Adverse Events	n/N	(%)	n/N	(%)	n/N	(%)	
Cardiovascular	9/141	(6.4)	5/69	(7.2)	4/72	(5.6)	0.72
Gastrointestinal	11/141	(7.8)	4/69	(5.8)	7/72	(9.7)	0.50
Infection	9/141	(6.4)	5/69	(7.2)	4/72	(5.6)	0.72
Neurological	6/141	(4.3)	4/69	(5.8)	2/72	(2.8)	0.33
Death	5/141	(3.6)	4/69	(5.8)	1/72	(1.4)	0.35
Respiratory	5/141	(3.6)	1/69	(1.4)	4/72	(5.6)	0.35
Kidney	2/141	(1.4)	1/69	(1.4)	1/72	(1.4)	1.00
Hematologic	2/141	(1.4)	0/69	(0.0)	2/72	(2.8)	0.49
Blood pressure	1/141	(0.7)	1/69	(1.4)	0/72	(0.0)	0.48
Genitourinary	1/141	(0.7)	0/69	(0.0)	1/72	(1.4)	0.50
Metabolic/toxic	1/141	(0.7)	1/69	(1.4)	0/72	(0.0)	0.48
Head and neck	1/141	(0.7)	1/69	(1.4)	0/72	(0.0)	0.48
Total	53/141	(37.6)	27/69	(39.1)	26/72	(36.1)	0.73
Adverse Events	n/N	(%)	n/N	(%)	n/N	(%)	p value
Cardiovascular	5/141	(3.6)	1/69	(1.4)	4/72	(5.6)	0.64
Infection	9/141	(6.4)	3/69	(4.4)	6/72	(8.3)	1.00
Gastrointestinal	4/141	(2.8)	1/69	(1.4)	3/72	(4.2)	1.00
Head and neck	4/141	(2.8)	2/69	(2.9)	2/72	(2.8)	0.59
Kidney	3/141	(2.1)	1/69	(1.4)	2/72	(2.8)	1.00
Musculoskeletal	3/141	(2.1)	1/69	(1.4)	2/72	(2.8)	1.00
Neurological	2/141	(1.4)	2/69	(2.9)	0/72	(0.0)	0.44
Skin	2/141	(1.4)	0/69	(0.0)	2/72	(2.8)	0.54
Respiratory	1/141	(0.7)	0/69	(0.0)	1/72	(1.4)	1.00
Metabolic/toxic	1/141	(0.7)	0/69	(0.0)	1/72	(1.4)	1.00
Cancer	1/141	(0.7)	1/69	(1.4)	0/72	(0.0)	0.34
Total	35/141	(24.8)	12/69	(17.4)	23/72	(31.9)	0.053