Table 4. Non-experimental validation of plants used in Trinidad and Tobago for diabetes and urinary problems

Scientific name	Clinical study	#
Aloe barbadensis	Aloe vera improved wound healing in STZ diabetic mice. Extracts of aloe gum increased glucose tolerance in diabetic and normal rats. Constant administration of the exudate of the leaves of Aloe barbadensis (500 mg/kg PO) gave a significant hypoglycemic effect in alloxan-diabetic mice. Single and chronic administration of the bitter principle (5 mg/kg IP) gave a significant hypoglycemic effect. The dried sap of the plant (half a tsp daily for 4–14 weeks) showed a significant hypoglycemic effect clinically as well as experimentally.	26
Annona squamosa	Doses of aqueous leaf extracts of <i>Annona squamosa</i> were given in drinking water to normal and (streptozotocin–nicotinamide induced diabetic) experimental rats for 12 days (250 mg/kg and 500mg/kg). The control was the standard drug glibenclamide (0.25 mg/kg). The aqueous extract lowered the fasting plasma glucose levels (<i>P</i> <0.05). A significant difference was also seen in serum insulin levels, serum lipid profile, liver glycogen levels and in pancreatic TBARS levels. The antidiabetic activity was not dose dependant. There was no toxicity found in the aqueous extract and the antidiabetic claims of <i>Annona squamosa</i> were supported.	27
A. leptopus Apium graveolens	Antigonon leptopus plant has antithrombin activity. Apium graveolens (celery) aqueous extract was found to have an antihyperlipidemic property which was not due to 3-n-butylphthalide (BuPh) (BuPh was previously reported to produce the lipid-lowering action in celery). Apigenin, isolated from Apium graveolens, relaxes rat thoracic aorta. Apium graveolens has antiinflammatory activity and antinociceptive action. The latter may be due to the presence of volatile oils, flavonoids and resins. The use of the plant extract for inflammation, pain and spasmodic colic can be justified.	28 1, 29
Artocarpus altilis (syn. Artocarpus communis)	A geranylated chalcone was isolated from leaves of <i>Artocarpus incisus</i> and it showed potent 5-alpha-reductase inhibitory activity. An extract of the leaves of <i>Artocarpus altilis</i> exerted a negative inotrophic effect on rat myocardium.	1
Bauhinia species	A new flavonol glycoside extracted from the roots of <i>Bauhinia variegata</i> showed anti-inflammatory activity. The crude methanolic extract of the leaves of Brazilian <i>Bauhinia microstachya</i> showed analgesic properties.	1, 30, 31
<i>Begonia</i> species	Four <i>Begonia</i> species have antimicrobial activity. One of these four (<i>Begonia heracleifolia</i>) and two other species have anti-tumour activity. The aqueous extract of <i>Begonia malabarica</i> showed activity against nine human pathogenic bacteria but not against <i>Vibrio parahaemolyticus</i> .	1, 32

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Bidens alba	Bidens alba L. var. radiata Schultz-Bip, (synonym) Bidens pilosa, contains polyacetylenes, which inhibit pathogenic microorganisms and flavonoids and are active anti-inflammatory agents. Bidens pilosa aqueous leaf extract	1, 33
	possesses aortic smooth muscle relaxant activity. A butanol fraction of <i>Bidens pilosa</i> prevented diabetes in non-obese diabetic (NOD) mice. The antidiabetic action is possibly	
	due to two polyacetylenic glucosides.	
Bixa orellana	Bixa orellana contains annatto which was responsible for	1, 34
	the hypoglycaemic episodes seen in the oral glucose	35
	tolerance test (OGTT) that was performed on dogs. This was mediated by an increase in plasma insulin	
	concentration. Bixin has a weak effect on rat liver	
	monooxygenases.	
Bontia	The use of <i>Bontia daphnoides</i> for jaundice in Trinidad may	1,
daphnoides	be related to its use for urinary problems. <i>Bontia</i>	16,
	daphnoides may have an Australian ancestral lineage.	37,
	Bontia daphnoides contains (-)-epingaione, a	38
	sesquiterpene furan. A herbarium note was found that reported <i>Bontia daphnoides</i> fruit can be used as an	
	antidote to the very poisonous <i>Hippomane mancinella</i> .	
Capraria biflora	The aqueous extract ($50-200 \text{ mg kg}^{-1}$) of dried leaves of	1,
	Capraria biflora had analgesic properties.	39,
		40
Carica papaya	The fruit juice of unripened fruit of <i>Carica papaya</i> may	41,
	contain antihypertensive agent(s) which exhibit(s) alpha- adrenoceptor activity.	42
Cassia alata	The methanol extracts of leaves, flowers, stem and root	1, 43
Custia urutu	barks of <i>Cassia alata</i> showed broad spectrum antibacterial	1, 13
	activity. Cassia alata leaf extract had no effect on glucose	
	levels in normoglycemic rats, but it reduced the blood	
	sugar levels in streptozotocin-induced hyperglycemic rats.	
Catharanthus	The leaf juice of <i>Catharanthus roseus</i> produced a dose-	1,44
roseus	dependent hypoglycemia in normal rabbits. A dose-	
	dependent reduction in blood glucose was also observed in alloxan-induced diabetic rabbits treated with	
	Catharanthus roseus. Active principles are three alkaloids:	
	leurosine, vindoline and vindolinine which are more	
	potent than tolbutamide as hypoglycaemic agents.	
Cecropia species	The stems and leaves of <i>Cecropia</i> cf. <i>obtusifolia</i> Bertol.,	1,
	inhibited the [3H]-AT II binding (angiotensin II AT1	45,
	receptor) more than 50%. The ethanolic extracts of the	46
	leaves of <i>Cecropia</i> cf. <i>obtusifolia</i> Bertol., and the stem of <i>Cecropia</i> cf. <i>obtusifolia</i> Bertol showed high inhibition of	
	the [3H] BQ-123 binding (endothelin-1 ET(A) receptor) in	
	a preliminary screening. The aqueous extracts from the	
	leaves of Cecropia obtusifolia have low toxicity, a	
	substantial central depressor effect and analgesic activity,	
	significant motor incoordination and muscle relaxant	
	activity and a peripheral analgesic effect. The extracts also	
	showed a topical and systemic anti-inflammatory effect. These results could justify the popular use of <i>Cecropia</i>	
	obtusifolia in rheumatic and kidney inflammation	
	obtained in meanage and maney inflammation	<u> </u>

Chamaesyce hirta syn. Euphorbia hirta	pathologies. <i>Cecropia glazioui</i> Sneth has antihypertensive-hypotensive action which may be related to blockade of voltage-gated calcium channels in vascular smooth muscle, while the positive inotropic/chronotropic and bronchorelaxant effects may be produced by a beta-adrenergic activity. The active component(s) in the aqueous extract of <i>Chamaesyce hirta</i> leaf had a diuretic spectrum comparable to that of acetazolamide, a standard diuretic drug, increasing both electrolyte excretion and urine output. Ethanolic extracts of the leaves also induced diuresis in rats. This study justified the traditional use of <i>Chamaesyce hirta</i> by the Swahilis and Sukumas as a diuretic agent. The lyophilised aqueous extract of <i>Chamaesyce hirta</i> has	1, 47, 48
	sedative activity at high doses (100 mg of dried plant/kg) without toxic effects. This study validated the traditional use of <i>Chamaesyce hirta</i> as a sedative.	
Cissus sicyoides	The aqueous extract from <i>C. sicyoides</i> had an anti-inflammatory effect. <i>Cissus rubiginosa</i> is used as an antidiarrhoeal agent in Congolese folk medicine. The methanolic and aqueous extracts derived from <i>Cissus rubiginosa</i> have antibacterial activity possibly due to tannins, phenolic compounds and flavonoids and the ethnomedical use of <i>Cissus rubiginosa</i> as an anti-diarrhea agent is defensible. <i>Cissus quadrangularis</i> (methanolic extract) is comparable to sucralfate in the treatment of gastric ulcers and should be tested for the treatment of peptic ulcer disease.	1, 49, 50, 51
Citrus species	The contents of the bioactive compounds in the pummelo- grapefruit hybrid juice named Israeli Jaffa Sweetie and their effect on people suffering from hypercholesterolemia were studied in a randomized controlled trial with 72 hypercholesterolemic patients, aged 43-71 years, after coronary bypass surgery. Diet supplemented with this juice positively influenced serum lipid, albumin, and fibrinogen levels and their antioxidant capacities; the juice thus has the potential to help hypercholesterolemic patients.	1, 52
Cocos nucifera	Cocos nucifera kernel is reported to contain a mannan. The fiber husk of coconut is rich in catechins (polyphenols with antioxidant activity); it has anti-bacterial and anti-viral activity and was tested for anti-proliferative activity and has a role to play in controlling hypertension.	1, 53, 54, 55
Cola nitida	Cola nitida nuts contain a heart stimulant called kolanin, and also contain caffeine, theobromine and quinine which are associated with increased blood pressure.	1
C. aromaticus	Leaves of <i>Coleus aromaticus</i> have antioxidant activity.	56
Commelina elegans	An aqueous extract of <i>Commelina communis</i> alleviated hyperglycemia caused by maltose or starch loading in normal and Streptozotocin (STZ)-induced diabetic mice with better efficacy than that of acarbose. In addition, prolonged administration of <i>Commelina communis</i> normalized hyperglycemia in STZ-induced diabetic mice. Therefore <i>Commelina communis</i> has potential for use in	1, 57

	the management of non-insulin-dependent diabetes.	
Crescentia cujete	Crescentia cujete contains alkaloids, tannins and	1
,	flavonoids as its antimicrobial constituents. Crescentia	
	alata methanolic (MeOH) extract was evaluated in vivo	
	and had a significant anti-inflammatory activity at the	
	highest dose tested possibly due to kaempferol.	
Cuscuta	At high doses <i>Cuscuta</i> species can cause fatal gastro-	1,
americana	intestinal toxicity. <i>Cuscuta reflexa</i> is used in Uttar Pradesh	59-
	India to treat jaundice and in Uttaranchal to treat 31	62
	ailments. The methanol extract of <i>Cuscuta reflexa</i> Roxb.	
	stem (MECR) was evaluated in multiple weekly doses of	
	MECR (25, 50, 75 mg/kg, i.p.) on liver and kidney	
	functions in mice. MECR at medium and high dose levels	
	increased serum transaminase (SGOT and SGPT), non-	
	protein nitrogen (NPN) and plasma cholesterol	
	significantly suggesting a negative effect on the liver. Serum	
	alkaline phosphatase and total bilirubin in the MECR	
	treated mice were also increased by the moderate dose. The	
	high dose did increase creatinine levels significantly. Low	
	doses of MECR (25 mg/kg, i.p.) did not produce any	
	noticable change in liver and kidney functions. The	
	methanolic extract (ME) of <i>Cuscuta reflexa</i> stem	
	suppressed ovarian steroidogenesis in mice.	
Cuscuta reflexa	The petroleum ether extract of <i>Cuscuta reflexa</i> Roxb. stem	61,
	has significant analgesic properties. Steroids are the active	62
	compounds.	
Cynodon dactylon	Cynodon dactylon is one of the rejuvenative plants with	63
	antioxidant activity used in the Ayurvedic system to	
	prevent and treat degenerative diseases (Rasayana).	
	Cynodon dactylon decoction caused a significant decrease	
	in hyperglycemia in healthy rabbits with induced	
	temporary hyperglycemia.	65
Cyperus rotundus	Cyperus scariosus root comprised one part of a polyherbal	65,
	ayurvedic preparation that provided partial protection to	66
	rats with cisplatin-induced renal toxicity. It has shown	
	cytoprotective effect against ethanol induced ulceration in	
	rats. A polyherbal formulation, containing <i>Aegle</i>	
	marmeloes, Coriandrum sativum, Cyperus rotundus and Vetiveria zinzanioides was effective in indomethacin-	
	induced enterocolitis in rats as well as acetic acid-induced	
	colitis in mice (models of inflammatory bowel disease).	
	Cyperus rotundus and its sesquiterpenes may be a	
	significant contributor to the activity of the formulation.	
Desmodium	Desmodium styracifolium was used as one component in	1,
adscendens	a twelve-herb mixture used to successfully treat bovine	67-
adocendens	urolithiasis. The ethanol extract of <i>Desmodium canum</i>	69
	roots contains antimicrobially active prenylated	
	isoflavanones (desmodianones). Desmodium adscendens	
	butanolic extract inhibits contraction of the ileum and	
	trachea in guinea pigs. An aqueous extract of <i>Ocimum</i>	
	canum is used by Ghanaians to manage diabetes mellitus.	
	In vivo modulation of levels of fasting blood glucose by θ .	
	<i>canum</i> extract was evaluated in type-II diabetes mellitus	
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were ineffective.			
	1	were ineffective.	

Justicia pectoralis	Justicia pectoralis contains coumarins (dihydrocoumarin	1, 82
	and umbelliferone), betaine and 3-(2-hydroxyphenyl)	
	propionic acid. Coumarin and umbelliferone are major	
	constituents of the plant and have the ability to relax	
	smooth muscle.	
Kalanchoe	The leaf juice concentrate and ethanolic extract of	1, 83
pinnata	Kalanchoe pinnata provide hepatoprotection, but the	
	concentrate is more effective. The plant concentrate is very	
	effective in decreasing the elevated level of serum bilirubin	
	suggesting that it can be used in the acute condition of	
	jaundice. The juice of the leaves and the ethanolic extract	
	of the marc of <i>Kalanchoe pinnata</i> Pers. (synonyms:	
	Bryophyllum calycinum Salisb. Parad. Lond., B. pinnatum	
	Kurz.) (family Crassulaceae) left after expressing the juice	
	were studied in rats against CCl4-induced hepatotoxicity.	
	The juice had a greater hepatoprotective effect than the	
	ethanolic extract.	
Laportea aestuans	The antidiabetic and hypolipidaemic effects of a	1, 84
Laportea aestaans	methanol/methylene-chloride extract of the aerial parts of	1, 01
	L. ovalifolia were investigated, in normal rats and rats with	
	diabetes induced by the intraperitoneal injection of	
	alloxan (at 150 mg/kg bodyweight). In the diabetic rats, 2	
	weeks of daily, intragastric treatment with the <i>L. ovalifolia</i>	
	extract produced a significant reduction in the fasting	
	serum glucose concentrations and lowered the serum	
	concentrations of total cholesterol and increased the serum	
	concentration of HDL cholesterol. <i>L. ovalifolia</i> may	
	possess antidiabetic and hypolipidaemic properties.	
Mimosa pudica	Mimosa pudica exhibited antimicrobial activity against	85
Williosa pudica	Vibrio cholerae. It did not prevent bladder stone	0.5
	deposition or dissolve preformed stones (experimental	
	urolithiasis in male and female rats).	
Momordia		1
	Momordia charantia can control glucose levels in	1,
charantia	chemically induced mild to severe models of diabetes	86,
	mellitus in rodents and it may act by stimulating kinases	87
	involved in peripheral utilization of glucose. Diabetic	
	complications are the major cause of morbidity and	
	mortality in diabetes mellitus. Use of <i>Momordia charantia</i>	
	has produced positive outcomes in diabetic complications	
	like diabetic nephropathy, fructose induced insulin	
	resistance and cataracts.	
Momordia	In normal mice intraperitoneal administration of	1,
charantia	Momordica charantia aqueous extract improved glucose	86,
	tolerance in normal mice after eight hours and reduced the	87
	level of hyperglycaemia in streptozotocin diabetic mice by	
	50% after five hours. <i>Momordica charantia</i> fruit juice acts	
	like insulin to exert its hypoglycaemic effect and also	
	stimulates amino acid uptake into skeletal muscle cells.	
	Momordica charantia fruit was studied with oral	
	hypoglycemis in Non-Insulin Dependent Diabetes Mellitus	
	(NIDDM) patients. The extract acts in synergism with oral	
	hypoglycemics and potentiates their hypoglycemia in	
	NIDDM.	
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77		
Morus alba	The hypoglycaemic activity of a 20% dried leaf infusion of	88-
	Morus alba was not verified in alloxan and streptozotocin	90
	induced hyperglycaemic rats. Chronic subcutaneous	
	administration of the extract of leaves of <i>Morus alba</i> to	
	rabbits led to degranulation of beta-cells of the Langerhans	
	islets. Leaves of <i>Morus alba</i> inhibit digestion and could be	
	used as an ingredient in health foods and in foods that	
	help to prevent diabetes. The hypoglycemic activity of the	
	flavonoids rich fraction of 70% alcohol extract of the	
	Egyptian <i>Morus alba</i> root bark was evaluated after its oral	
	administration to streptozotocin-induced diabetic rats. The	
	extract may protect pancreatic beta cells from degeneration	
	and diminish lipid peroxidation.	
Musa sapientum	The antihyperglycemic effect of ethanolic extract of flowers	91,
	of <i>Musa sapientum</i> (Musaceae) was studied in alloxan	92
	induced diabetic rats. Oral administration of the ethanolic	
	extract showed significant (p < 0.001) blood glucose	
	lowering effect at 200 mg/kg in alloxan induced diabetic	
	rats (120 mg/kg, i.p.). The methanolic extract of mature,	
	green fruits of <i>Musa paradisiaca</i> (MEMP) was examined in	
	normal (normoglycemic) and streptozotocin (STZ)-	
	treated, diabetic (hyperglycemic) mice, using	
	chlorpropamide as the reference antidiabetic agent. MEMP	
	(100-800 mg/kg p.o.) induced significant, dose-related (p	
	< 0.05-0.001) reductions in the blood glucose	
	concentrations of both normal and diabetic mice and	
	showed hypoglycemic activity. The folkloric use of the	
	plant in the management of adult-onset, type-2 diabetic	
	mellitus is supported.	
Nopalea	Nopalea cochinellifera is closed related to prickly pear	93,
cochinellifera	which is used by Pima Indians as treatment against	94
Cocimicinicia	diabetes mellitus and for its lipid lowering properties.	74
	Disturbances in glucose and lipid metabolism are	
	_	
	associated with impaired platelet function. Platelet	
	function is one of several factors that contribute to the	
	initiation and progression of atherosclerosis. Prickly pear's	
	beneficial activity on the cardiovascular system may come from decreasing platelet activity and hence improving	
	, , ,	
	haemostatic balance. <i>Nopalea cochinellifera</i> stems tested	
	in oral glucose tolerance test in mice produced an increase	
0	in blood glucose levels.	1.05
Ocimum	Ocimum sanctum fixed oil produced a hypotensive effect	1,95,
campechianum	in the anaesthetised dog, which may be due to its	96
	peripheral vasodilatory action. The oil increased blood-	
	clotting time and percentage increase was comparable to	
	aspirin and this could be due to inhibition of platelet	
	aggregation. Results of a randomized, placebo-controlled,	
	crossover, single blind clinical trial of leaf extract of	
	Ocimum album showed a significant decrease in fasting,	
	post-prandial blood levels and mean total cholesterol	
	levels in treated subjects as compared to controls.	
	Constituents of <i>O. sanctum</i> leaf extracts have stimulatory	
	effects on physiological pathways of insulin secretion	

	which may explain its antidiabetic activity.	
<i>Passiflora</i>	Passiflora quadrangularis whole plant contains nor-	97
quadrangularis	epinephrine and 5-hydroxytryptamine; a cyclopropane) (
quadrangulans	triterpene glycoside (quadranguloside) was isolated from	
	the leaves. <i>Passiflora quadrangularis</i> contains an	
	angiotensin converting enzyme inhibitor and aldose	
	reductase enzyme inhibitor and could be studied for a	
D	novel anti-hypertensive agent.	1
<i>Peperomia</i>	The methanol extract of <i>Peperomia pellucida</i> aerial parts	1,
pellucida	(containing anthraquinones, cardiac glycosides and	98-
	tannins) showed significant analgesic activity. Aqueous	103
	extracts of dried aerial parts of <i>Peperomia pellucida</i> have	
	anti-inflammatory activity and an analgesic effect at a dose	
	level of 400 mg/kg and low toxicity. <i>Peperomia pellucida</i>	
	lowers uric acid in the blood and was endorsed by the	
	Department of Health in the Philippines.	
Persea americana	Intravenous administration of methanol and aqueous	1
	extracts of <i>Persea americana</i> to anaesthetised normotensive	
	rats produced a fall in mean arterial blood pressure which	
	lasted less than five minutes. The short duration of this	
	effect may indicate rapid metabolism of the active	
	principles (steroid and triterpene glycosides).	
Phyllanthus	A methanolic extract of <i>Phyllanthus amarus</i> had potential	1,
urinaria	anti-oxidant activity. The extract reduced the blood sugar	104
	in alloxan diabetic rats by the 4th hour by 6% at a dose	
	level of 200 mg/kg body wt and 18.7% at a concentration	
	of 1000 mg/kg body wt. Continued administration of the	
	extract for 15 days produced significant (P < 0.001)	
	reduction in blood sugar. A one week treatment with the	
	aqueous extract of <i>Phyllanthus amarus</i> did not lower FBG	
	or postprandial blood glucose in untreated Non-Insulin	
	Dependent Diabetes Mellitus (NIDDM) patients. In a	
	clinical observation, oral administration of a preparation	
	of the whole plant of <i>Phyllanthus amarus</i> (syn.	
	Phyllanthus niruri) (5 gm/day in divided doses) for 10	
	days to 9 mild hypertensives (four subjects with diabetes	
	mellitus) reduced blood glucose (5–50 mg) in diabetic as	
	well as non-diabetic subjects and also reduced systolic	
	blood pressure.	
P. microphylla	Pilea microphylla was active against Staphylococcus	1
• •	aureus.	
Pityrogramma	Pityrogramma calomelanos methanolic extract has	1
calomelanos	cytotoxic properties.	
Portulaca oleracea	<i>Portulaca pilosa</i> exerts some renal effects that do not	1,
	include diuresis. Portulaca oleracea, Portulaca grandiflora	105-
	and <i>Portulaca oleracea</i> L. subsp <i>sativa</i> (Haw.) Celak have	107
	analgesic and antiinflammatory activities comparable to	
	synthetic drugs. <i>Portulaca oleracea</i> aqueous and ethanolic	
	extracts showed a dose-dependent reduction in severity of	
	ulcers induced by HCl or absolute alcohol. The highest	
	dose of extracts exerted similar activity to sucralfate. This	
	gastroprotective activity justifies its use for gastrointestinal	
	disease.	
		1

Ruellia species	Ruellia patula yielded two lignan glycosides.	1
Sansevieria	Sansevieria guineensis originates in South Africa. The	1
guineensis	methanol extract of the whole plant of <i>Sansevieria</i>	
O	trifasciata yielded 12 steroidal saponins and four pregnane	
	glycosides.	
Scoparia dulcis	Oral administration of an aqueous extract of <i>S. dulcis</i> plant	108
1	(200 mg/kg of body weight) to streptozotocin diabetic rats	
	for 6 weeks proved that <i>S. dulcis</i> had an	
	antihyperlipidemic action in normal and experimental	
	diabetic rats in addition to its antidiabetic effect.	
Solanum	In two clinical experiments <i>Solanum melongena</i> infusion	1,
melongena	(equivalent to 83g of eggplant fruit) reduced the blood	109-
0 - 0	levels of total and LDL cholesterol and of apolipoprotein B	110
	in humans. This effect was modest and transitory. No	110
	effect of eggplant (containing polyphenols and steroidal	
	saponins) on cholesterol metabolism and atherogenesis in	
	LDLR(-/-) mice was seen after 12 weeks in a more recent	
	study with mice. The eggplant extract (fruit blended in	
	water and given ad lib.) did not act as a	
	hypocholesterolemic agent. <i>Solanum surrattense</i> was	
	included in a twelve-herb mixture used to effectively treat	
	bovine urolithiasis.	
Spiranthes acaulis	Spiranthes autumnalis and Spiranthes diuretica are used as	1
1	depuratives, tonics and diuretics.	
Stachytarpheta	The analgesic effect of Stachytarpheta jamaicensis was	1
jamaicensis	evaluated in rats and showed a lesser effect than morphine.	
Tamarindus indica	Tamarindus indica aqueous extract showed protective	111
	activity against lipid peroxidation. The antidiabetogenic	
	effect of aqueous extract of seed of <i>Tamarindus indica</i> on	
	streptozotocin-induced diabetic rat in duration dependent	
	fashion was established. Tamarindus indica may have	
	beneficial effects in type-I diabetes mellitus.	
Theobroma cacao	Cocoa extract was tested on serum glucose levels and lipid	112,
	profiles in streptozotocin-diabetic rats and showed dose-	113
	dependent hypoglycaemic and hypocholestrolemic effects	
	on serum glucose levels and lipid profiles, respectively.	
	Cocoa inhibits diabetes-induced cataract formation in rats	
	with diabetes induced by streptozotocin (STZ). The active	
	compound may be the proanthocyanidins which have	
	antioxidative activity.	
Tournefortia	Tournefortia hirsutissima processed in the traditional way	114
hirsutissima	showed an antihyperglycaemic effect in temporarily	
	hyperglycemic rabbits validating its ethnomedicinal use in	
	diabetes mellitus control.	
Vetiveria	Vetiveria zizanioides has antibacterial properties; and	115
zizanioides	potential in combating intestinal or other pathogens.	
	Vetiveria zinzanioids has carminative and stomachic	
	actions that might be useful in gastrointestinal	
	disturbances.	
Zea mays	Studies on <i>Zea mays</i> have shown that it has <i>in vivo</i> diuretic	1,
	and hypotensive activity. Corn silk contains amines, fixed	116
	oils, saponins, tannins, bitter glycosides, allantoin,	
	cryptoxanthin, flavone and phytosterols including beta-	

sitosterol and stigmasterol. The last two compounds are	
known to have antiinflammatory activity <i>in vivo</i> and may	
have a beneficial effect in treating prostate problems.	