TITLE: Consumer willingness to pay for healthier food products: a systematic review

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Table S1. Search Strategy

Hedge/concept	Search terms
Consumer	consumer* OR customer* OR client* OR purchaser* OR shopper* OR
	correspondent* OR user* OR "end user*" OR clientele* OR layman OR public OR
	stakeholder* OR citizen* OR people OR individual OR employee* OR worker* OR
	attendant* OR staff* OR athlete* OR visitor* OR resident*
Willingness to	(("Willingness to pay" OR "WTP" OR "willingness to accept" OR "acceptance to pay"
pay	OR "willingness to purchase" OR "willing to pay" OR "willingness to buy" OR
	"consumer* behavior*" OR "choice experiment" OR "discrete choice experiment*"
	OR "contingent valuation method*" OR "price premium" OR "preferences" OR
	"purchase behavior" OR "purchase intention" OR "price acceptance" OR "stated
	preference" OR "revealed preference" OR "contingent valuation" OR "discrete
	choice model*" OR "discrete choice conjoint experiment*" OR "part-worth
	utili?at*" OR "functional measurement" OR "paired comparison*" OR "pairwise
	choices" OR ((conjoint) N2 (analy* OR studies OR study OR model* OR
	measurement* OR "choice experiment)))
Healthy food	((vegetable* OR legume* OR bean* OR fruit OR grain OR cereal OR wholegrain OR
or beverage	"high cereal fibre" OR "high cereal fiber" OR "lean meat" OR poultry OR fish OR
	eggs OR tofu OR nut* OR seed* OR milk OR yoghurt OR cheese OR health* OR
	nutrition* OR "low sugar" OR "reduced sugar" OR "no* sugar" OR "no added
	sugar" OR "sugar free" OR "low carbohydrate" OR "carbohydrate free" OR "no*
	carbohydrate" OR "reduced carbohydrate" OR "low fat*" OR "fat* free" OR "no*
	fat*" OR "reduced fat" OR "no* cholesterol" OR "low cholesterol" OR "cholesterol
	free" OR "reduced cholesterol" OR "low salt" OR "salt free" OR "reduced salt" OR
	"no* salt" OR "no added salt" OR "low sodium chloride" OR "reduced sodium
	<u> </u>

chloride" OR "sodium free" OR "no* sodium") n2 (diet OR eat* OR food OR meal*
OR snack OR beverage OR water OR milk OR drink* OR product*))

Table S2: List of subject headings terms used for the database searches

Database	Concept	Subject heading
	1	-
Medline	2	(MH "Consumer Behavior")
Complete	3	(MH "Vegetables+") OR (MH "Vegetable Products+") OR (MH "Fruit+")
		OR (MH "Whole Grains") OR (MH "Meat+") OR (MH "Poultry+") OR (MH
		"Eggs+") OR (MH "Nuts") OR (MH "Seeds+") OR (MH "Yogurt") OR (MH
		"Milk+") OR (MH "Cheese") OR (MH "Diet, Sodium-Restricted") OR (MH
		"Diet, Carbohydrate-Restricted+") OR (MH "Diet, Fat-Restricted")
Business Source	1	-
Complete	2	DE "CONSUMER behavior" OR DE "DISCRETE choice models" OR DE
		"CONSUMER attitudes" OR DE "WILLINGNESS to pay" OR DE
		"CONTINGENT valuation" OR DE "CONSUMER preferences" OR DE
		"BRAND choice" OR DE "CUSTOMER feedback" OR DE "PREFERENCE
		heterogeneity"
	3	-
Global Health	1	-
	2	DE "willingness to pay" OR DE "contingent valuation" OR DE "valuation"
	3	DE "low fat milk" OR DE "low fat cheeses" OR DE "low fat products" OR
		DE "low fat spreads" OR DE "skim milk" OR DE "vegetables" OR DE
		"bulbous vegetables" OR DE "fruit vegetables" OR DE "leafy vegetables"
		OR DE "root vegetables" OR DE "stem vegetables" OR DE "legumes" OR

Database	Concept	Subject heading
		DE "fodder legumes" OR DE "grain legumes" OR DE "pasture legumes"
		OR DE "vegetable legumes" OR DE "fruit" OR DE "canned fruit" OR DE
		"dried fruit" OR DE "frozen fruit" OR DE "meat" OR DE "beef" OR DE
		"buffalo meat" OR DE "camel meat" OR DE "crab meat" OR DE "game
		meat" OR DE "goat meat" OR DE "horse meat" OR DE "pigmeat" OR DE
		"poultry meat" OR DE "rabbit meat" OR DE "seal meat" OR DE "sheep
		meat" OR DE "turtle meat" OR DE "variety meats" OR DE "veal" OR DE
		"whale meat" OR DE "fish" OR DE "eggs" OR DE "poultry" OR DE
		"broilers" OR DE "capons" OR DE "tofu" OR DE "nuts" OR DE "seeds" OR
		DE "cotyledons" OR DE "endosperm" OR DE "hard seeds" OR DE
		"husks" OR DE "kernels" OR DE "monogerm seeds" OR DE "naked
		grain" OR DE "cheeses" OR DE "Appenzell cheese" OR DE "Asiago
		cheese" OR DE "bakers' cheese" OR DE "Bel Paese cheese" OR DE "blue
		cheese" OR DE "Bra cheese" OR DE "Brick cheese" OR DE "Brie cheese"
		OR DE "Caciocavallo cheese" OR DE "Caerphilly cheese" OR DE
		"Camembert cheese" OR DE "Cantal cheese" OR DE "Carre de l'Est
		cheese" OR DE "Cheddar cheese" OR DE "Cheshire cheese" OR DE
		"Colby cheese" OR DE "Comte cheese" OR DE "cottage cheese" OR DE
		"Coulommiers cheese" OR DE "cream cheese" OR DE "Crescenza
		cheese" OR DE "Danbo cheese" OR DE "Domiati cheese" OR DE
		"Double Gloucester cheese" OR DE "dried cheese" OR DE "Dutch
		cheese" OR DE "Edam cheese" OR DE "Emmental cheese" OR DE "Feta
		cheese" OR DE "filled cheese" OR DE "Fontina cheese" OR DE "fresh
		cheese" OR DE "fromage frais" OR DE "Gammelost cheese" OR DE
		"Gorgonzola cheese" OR DE "Gouda cheese" OR DE "Grana cheese" OR
		DE "Grana Padano cheese" OR DE "grated cheese" OR DE "Gruyere
		cheese" OR DE "Havarti cheese" OR DE "Italian cheese" OR DE

"Kachkaval cheese" OR DE "Kareish cheese" OR DE "Kasseri cheese DE "Kefalotyri cheese" OR DE "Lancashire cheese" OR DE "Limburg cheese" OR DE "Liptauer cheese" OR DE "low fat cheeses" OR DE "Manchego cheese" OR DE "Mitzithra cheese" OR DE "Montasio cheese" OR DE "Mozzarella cheese" OR DE "Munster cheese" OR D "Neufchatel cheese" OR DE "Parmesan cheese" OR DE "Pasta Filata cheese" OR DE "Pecorino cheese" OR DE "pickled cheese" OR DE "F l'Eveque cheese" OR DE "Port du Salut cheese" OR DE "Prato cheese OR DE "processed cheese" OR DE "Provolone cheese" OR DE "Que: Blanco cheese" OR DE "Reblochon cheese" OR DE "Ricotta cheese" DE "Romadur cheese" OR DE "Romano cheese" OR DE "Roquefort cheese" OR DE "Saint Paulin cheese" OR DE "Samso cheese" OR DE "smoked cheese" OR DE "Swiss cheese" OR DE "Taleggio cheese" OR "Svecia cheese" OR DE "Swiss cheese" OR DE "Trappist cheese" OR "Teleme cheese" OR DE "Tilsit cheese" OR DE "Trappist cheese" OR "Travnik cheese" OR DE "Tvorog" OR DE "Vacherin cheese" OR DE "Wensleydale cheese" OR DE "whey cheese" OR DE "white cheese" DE "milk" OR DE "buffalo milk" OR DE "camel milk" OR DE "concentrated milk" OR DE "condensed milk" OR DE "dried milk" O	
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"evaporated milk" OR DE "ewe milk" OR DE "filled milk" OR DE	
"flavoured milk" OR DE "frozen milk" OR DE "goat milk" OR DE	
"homogenized milk" OR DE "humanized milk" OR DE "liquid milk" O)R
DE "low fat milk" OR DE "low lactose milk" OR DE "mare milk" OR D	E
"pasteurized milk" OR DE "protein enriched milk" OR DE "raw milk'	OR
DE "residual milk" OR DE "skim milk" OR DE "sterilized milk" OR DE	
"yoghurt" OR DE "frozen yoghurt" OR	
1 -	

Database	Concept	Subject heading
	2	-
CINAHL	3	(MH "Restricted Diet+") OR (MH "Fruit+") OR (MH "Fruit Juices+") OR
		(MH "Citrus+") OR (MH "Vegetables+") OR (MH "Milk+") OR (MH
		"Cheese") OR (MH "Meat+") OR (MH "Cereals+") OR (MH "Health
		Food+") OR (MH "Nuts+") OR (MH "Yogurt") OR (MH "Fish") OR (MH
		"Poultry") OR (MH "Seeds+") OR (MH "Legumes+") OR (MH "Diet,
		Sodium-Restricted") OR (MH "Diet, Low Carbohydrate") OR (MH "Diet,
		Fat-Restricted") OR (MH "Dairy Products+")
Health Policy	1	-
Reference Center	2	(DE "VALUATION" OR DE "CONTINGENT valuation") OR (DE
		"WILLINGNESS to pay")
	3	DE "FRUIT" OR DE "LEGUMES" OR DE "TOFU" OR DE "DRIED tofu" OR
		DE "GRAIN" OR DE "ALTERNATIVE grains" OR DE "CEREAL grasses" OR
		DE "CORN" OR DE "FLOUR" OR DE "GREEN Revolution" OR DE
		"LODGING of grain" OR DE "OATS" OR DE "RICE" OR DE "RYE" OR DE
		"WHEAT" OR DE "WINTER grain" OR DE "CEREAL products" OR DE
		"MEAT" OR DE "APE meat" OR DE "BEEF" OR DE "BUFFALO meat" OR DE
		"CAMEL meat" OR DE "CANNED meat" OR DE "DRIED meat" OR DE
		"FROZEN meat" OR DE "GOAT meat" OR DE "GROUND meat" OR DE
		"HORSEMEAT" OR DE "IN vitro meat" OR DE "IRRADIATED meat" OR DE
		"KANGAROO meat" OR DE "LAMB (Meat)" OR DE "MEAT cuts" OR DE
		"MEAT emulsions" OR DE "MEAT meal" OR DE "MEAT science" OR DE
		"MUTTON" OR DE "PASTRAMI (Meat)" OR DE "PORK" OR DE "PORK
		products" OR DE "PRECOOKED meat" OR DE "RABBIT meat" OR DE
		"SALTED meat" OR DE "SAUSAGES" OR DE "SMOKED meat" OR DE
		"TURTLES as food" OR DE "VARIETY meats" OR DE "VENISON" OR DE
		"WILDLIFE as food" OR DE "POULTRY" OR DE "BROILER chickens" OR

Concept	Subject heading
	DE "CHICKENS" OR DE "DUCKS" OR DE "GEESE" OR DE "GUINEAFOWL"
	OR DE "TURKEYS" OR DE "FISHES" OR DE "AIR-breathing fishes" OR DE
	"ANADROMOUS fishes" OR DE "AQUARIUM fishes" OR DE "BAITFISH"
	OR DE "BRACKISH water fishes " OR DE "FINGERLINGS (Fish)" OR DE
	"FISH farming" OR DE "FISH fry (Juvenile fish)" OR DE "FISH pests" OR
	DE "FORAGE fishes" OR DE "FRESHWATER fishes" OR DE
	"GROUNDFISHES" OR DE "HATCHERY fishes" OR DE "INTRODUCED
	fishes" OR DE "MARINE fishes" OR DE "MIGRATORY fishes" OR DE
	"NATIVE fishes" OR DE "ORNAMENTAL fishes" OR DE "TROPICAL fish"
	OR DE "WARMWATER fishes" OR DE "EGGS" DE "DRIED eggs" OR DE
	"NUTS" OR DE "AMERICAN chestnut" OR DE "CASHEW nuts" OR DE
	"CHINESE chestnut" OR DE "COATED nuts (Confectionery)" OR DE
	"HAZELNUTS" OR DE "MACADAMIA" OR DE "NUT products" OR DE
	"TROPICAL nuts" OR DE "SEEDS" OR DE "CORN seeds" OR DE
	"COTTONSEED" OR DE "FIELD crop seeds" OR DE "FLOWER seeds" OR
	DE "LEGUME seeds" OR DE "LETTUCE seeds" OR DE "OILSEEDS" OR DE
	"PELLETIZED seeds" OR DE "PEPPER seeds" OR DE "PINE nuts" OR DE
	"RICE seeds" OR DE "SEED crops" OR DE "TOMATO seeds" OR DE
	"TRANSGENIC seeds" OR DE "VEGETABLE seeds" OR DE "WEED seeds"
	OR DE "MILK" OR DE "BREAST milk" OR DE "CAMEL milk" OR DE
	"CONCENTRATED milk" OR DE "DRIED milk" OR DE "ENRICHED milk" OR
	DE "GOAT milk" OR DE "HOMOGENIZED milk" OR DE "HORSE milk" OR
	DE "MILKFAT" OR DE "RAW milk" OR DE "RECONSTITUTED milk" OR DE
	"SHEEP milk" OR DE "SKIM milk" OR DE "WHEY" OR DE "YOGURT" OR
	DE "FROZEN yogurt" OR DE "GREEK yogurt" OR DE "YOGURT mixes" OR
	DE "CHEESE" OR DE "CAMEL cheese" OR DE "CHEESE varieties" OR DE
	"CHEESEMAKERS" OR DE "CURD cheese" OR DE "GOAT cheese" OR DE

Concept	Subject heading
	"PROCESSED cheese" OR DE "RAW milk cheese" OR DE "LOW-
	cholesterol diet" OR DE "SALT-free diet" OR DE "LOW-fat diet" OR DE
	"LOW-cholesterol diet" OR DE "SUGAR-free diet" OR DE "LOW-calorie
	diet" OR DE "SUGAR-free diet" OR DE "VERY low-calorie diet" OR DE
	"LOW-carbohydrate diet" OR DE "ATKINS diet" OR DE "PALEO diet" OR
	DE "SUGAR-free diet"
1	'consumer'/exp OR 'customer'/exp
2	'willingness to accept'/exp OR 'Willingness To Pay'/exp OR 'discrete
	choice experiment'/exp OR 'contingent valuation'/exp OR 'conjoint
	analysis'/exp
3	'healthy diet'/de OR 'low fat diet'/de OR 'sodium restriction'/de OR 'low
	carbohydrate diet'/de OR 'fat free diet'/de OR 'fruit'/exp OR
	'vegetable'/exp OR 'meat'/exp OR 'fish'/exp OR 'bean'/exp OR
	'cereal'/exp OR 'whole grain'/exp OR 'poultry'/exp OR 'egg'/exp OR
	'nut'/exp OR 'plant seed'/de OR 'milk by fat content'/de OR 'reduced fat
	milk'/de OR 'skim milk'/de OR 'yoghurt'/exp OR 'cheese'/exp
1	-
2	-
3	-
	3

Table S3: Quality scores of individual studies.

		Akaichi et al.	Bellhouse	Buttorff	Childs & Drake.	De-Magistris &	De-	De-	Di	Jurado	Leak	Lee CM,	Lee et	Lusk &	Nganje	Van	Agregate
		2020 ³⁹	et al.	et al.	2009 ⁴³	Gracia. 2016 ⁴¹	Magistris,&	Magistris,	Vita et	&	et al.	Moskowitz	al.	Parker.	et al.	Wezemael	item
			2010 ⁴⁹	2015 ⁴⁸			Lopez-	Lopez-	al.	Gracia.	201944	HR, Lee	2015 ⁵¹	2009 ⁴⁶	2008 ⁴⁷	et al.	score
							Galan.	Galan &	2016 ⁵⁰	2017 ⁴²		SY. 2007 ⁴⁵				2014 ²⁹	
							2016 ²⁸	Caputo									
								V. 2016 ⁴⁰									
1.	Was a well- defined r	esearch question	stated and is	conjoint ar	alysis an appropria	te method for answer	ing it?										
1.1	Were a well-	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	15/15
	defined research																
	question and a																
	testable																
	hypothesis																
	articulated?																
1.2	Was the study	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	15/15
	perspective																
	described, and																
	was the study																
	placed in a																
	particular																
	decision-making																
	or policy context?																

4.3	\A/	N.	. V		V		. v		N.	l v		N.		L		V	0/45
1.3	Was the rationale	N	Y	Y	Υ	N	Y	Y	N	Υ	N	N	Y	N	N	Υ	8/15
	for using conjoint																
	analysis to answer																
	the research																
	question clearly																
	stated?																
2.	Was the choice of at	tributes and level	s supported b	y evidence?													
2.1	Was attributes	Y	N	Υ	Υ	N	N	N	N	N	N	Y	Υ	N	N	Y	6/15
	identification																
	supported by																
	evidence																
	(literature reviews,																
	focus groups, or																
	other scientific																
	methods)?																
2.2	Was attributes	Υ	N	Y	N	N	Υ	Υ	N	N	N	N	N	N	N	Y	5/15
	selection justified																
	and consistent																
	theory?																
2.3	Was level selection	Υ	N	Υ	N	N	Υ	Υ	N	Υ	N	Y	Υ	Υ	N	Y	9/15
	for each attribute																
	justified by the																
	evidence and																
	consistent with the																
			1						l						l		

			1	1	ı		1	ı		1				1			
	study perspective																
	and hypothesis?																
3.	Was the construction	of tasks appropi	riate?														
3.1	Was the number	Υ	N	Y	N	N	N	Y	N	Υ	N	N	Υ	Υ	N	Υ	7/15
	of attributes in																
	each conjoint task																
	justified (that is,																
	full or partial																
	profile)?																
3.2	Was the number	Υ	N	Υ	N	N	Y	Υ	N	Υ	N	N	Υ	Υ	N	Υ	8/15
	of profiles in each																
	conjoint task																
	justified?																
3.3	Was (should) an	Υ	N	Υ	N	N	Υ	Υ	N	Υ	N	N	Υ	Υ	N	Υ	8/15
	opt-out or a																
	status-quo																
	alternative (be)																
	included?																
4.	Was the choice of ex	perimental design	n justified and	d evaluated?													
4.1	Was the choice	Y	N	Υ	N	N	Y	N	Υ	Υ	N	N	Υ	Υ	N	Υ	8/15
	experiment design																
	justified? Were																
	alternative																
	experimental																
<u> </u>				l				l		l				l	l		

	docians												l	1		1	
	designs																
	considered?																
4.2	Were the	N	N	N	N	N	N	Ν	N	N	N	N	Υ	Υ	N	Υ	3/15
	properties of the																
	experimental																
	design evaluated?																
4.3	Was the number	Υ	N	Υ	N	N	Υ	Υ	Ν	N	N	N	Υ	Υ	Ν	Υ	7/15
	of conjoint tasks																
	included in the																
	data-collection																
	instrument																
	appropriate?																
5.	Were preferences eli	cited appropriate	ly, given the r	esearch que	estion?												
5.1	Was there	Υ	N	N	N	N	N	N	N	Υ	N	Υ	N	N	N	Υ	4/15
	sufficient																
	motivation and																
	explanation of																
	conjoint tasks?																
5.2	Was an	Υ	Υ	Y	N	N	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	N	Υ	11/15
	appropriate																
	elicitation format																
	(that is, rating,																
	ranking, or choice)																
	used? Did (should)																
	the elicitation																

	format allow for																
	indifference?																
5.3	In addition to	Υ	N	Υ	N	N	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	7/15
	preference																
	elicitation, did the																
	conjoint tasks																
	include other																
	qualifying																
	questions (for																
	example, strength																
	of preference,																
	confidence in																
	response, and																
	other methods)?																
6.	Was the data collection	on instrument de	signed appro	priately?													
6.1	Was appropriate	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	13/15
	respondent																
	information																
	collected (such as																
	sociodemographic,																
	attitudinal, healthy																
	history or status,																
	and treatment																
	experience)?																
												l	İ		l		

6.2	Were the	Υ	N	Υ	N	N	Υ	Υ	N	Υ	N	Υ	N	N	N	Υ	7/15
	attributes and																
	levels defined, and																
	was any																
	contextual																
	information																
	provided?																
6.3	Was the level of	Υ	Υ	Υ	N	Υ	N	Υ	N	Υ	N	N	Υ	Υ	N	Υ	9/15
	burden of the																
	data-collection																
	instrument																
	appropriate? Were																
	respondents																
	encouraged and																
	motivated?																
7.	Was the data-collection	on plan appropri	ate?														
7.1	Was the sampling	N	N	Υ	N	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	N	Υ	10/15
	strategy justified																
	(for example,																
	sample size,																
	stratification, and																
	recruitment)?																
7.2	Was the mode of	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	14/15
	administration																
	justified and																
L			l .		I												

	appropriate (for																
	example, face-to																
	face, pen, pen and																
	paper, web-																
	based)?																
7.3	Were ethical	N	N	N	N	N	N	N	N	Υ	Υ	Υ	N	Υ	N	Υ	5/15
	considerations																
	addressed (for																
	example,																
	recruitment,																
	information																
	and/or consent,																
	compensation)?																
8.	Were statistical analy	ses and model es	stimation app	ropriate?					,		1		'				
8.1	Were respondent	Υ	Υ	Υ	N	N	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	11/15
	characteristics																
	examined and																
	tested?																
8.2	Was the quality of	Υ	Y	Υ	Y	N	N	N	N	N	N	N	N	N	N	N	4/15
	the responses																
	examined (for																
	example,																
	rationality, validity,																
	reliability)?																

8.3	Was model	Υ	Υ	Υ	Υ	N	Υ	Υ	N	Υ	N	N	Υ	Υ	N	Υ	10/15
	estimation																
	conducted																
	appropriately?																
	Were issues of																
	clustering and																
	subgroups																
	handled																
	appropriately?																
9.	Were the results and	conclusion valid?)														
9.1	Did study results	Υ	N	Υ	N	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	13/15
	reflect testable																
	hypothesis and																
	account for																
	statistical																
	uncertainty?																
9.2	Were study	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Y	Y	N	Υ	Υ	Υ	Υ	13/15
	conclusions																
	supported by the																
	evidence and																
	compared with																
	existing findings in																
	the literature?																
9.3	Were study	Υ	N	Υ	N	N	Υ	Υ	Υ	Υ	Υ	N	N	N	N	Υ	8/15

generalizability																
adequately																
discussed?																
10. Was the study preser	ntation clear, con	cise and comp	olete?													
10.1 Was the study	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	15/15
importance and																
research context																
adequately																
motivated?																
10.2 Were the study	Υ	N	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	14/15
data-collection																
instrument and																
methods																
described?																
10.3 Were the study	Υ	N	Υ	N	N	Y	N	Υ	Υ	Υ	N	N	Υ	Υ	Υ	9/15
implications																
clearly stated and																
understandable to																
a wide audience?																
Number (percentage)	26	12	27	9	10	22 (73%)	22	12	25	13	16	22	23	7	29	
criteria met	(87%)	(40%)	(90%)	(30%)	(33%)		(73%)	(40%)	(83%)	(43%)	(53%)	(73%)	(77%)	(23%)	(97%)	