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Serial	Paper	PA ^a profile	Demograp	Medical	BCT ^b	Contextual
number	reference		hics	data	parameters	information
1	Vandelano	Activity	age,	Presence or	Subjective	Quality of
	tte et al	monitor	gender,	absence of	PA,	life,
	[1]	data, sitting	education,	depression,	motivation,	perceived
		time, and	BMI°,	anxiety,	action	neighborhoo
		history of	employme	and stress;	planning,	d
		feedback	nt,	sleep	and goal	environment
			income,	behavior	setting	^d , learning
			postcode,	and		style, and
			and	duration ^d		delivery
			address			mode
						preference
2	Ahire et al	Lifestyle	Age and	Medical		Preferences
	[2]		weight	condition		
				and		
				allergies		
3	Mukhtar	User	Age and	Medication		User
	[3]	activities	gender	s, chronic		preferences
		type,		conditions,		on exercise
		duration and		disabilities,		type and
		difficulty		and		routine and
		level, and		medical		diet and
		history of		history		social
		activities				interests
4	Tseng et	User		Health		
	al [4]	physiologica		assessment		
		l value and		reports		

Table: User Model Parameters

		history of				
		recommenda				
		tions				
5	Storm et	Self-reported	Gender,		Self-efficacy,	
	al [5]	PA and goal	country,		planning,	
		(static)	marital		habit	
			status,		strength,	
			BMI, year		stage,	
			of birth,		intention,	
			employme		and risk	
			nt, and		perception	
			education			
6	Schulz et	PA level	Age,	Presence of	Attitude,	Quality of
	al [6]		gender,	high blood	barriers, self-	life,
			height,	pressure,	efficacy,	smoking,
			weight,	diabetes, or	intention,	alcohol
			marital	cancer	and social	consumption
			status,		support	, and fruits
			religious			and
			backgroun			vegetable
			d,			intake
			ethnicity,			
			educationa			
			l level,			
			current			
			work			
			status, and			
			income			
7	Hermens	PA (in	Age,		Stage of	Current
	et al [7]	energy	height, and		change and	time, day
		expenditure)	weight		self-efficacy	weather, and
		, history of				temperature

		sent			
		messages,			
		and user			
		goal			
8	Lee et al	Туре,	Weight,	 Barriers,	Preference
	[8]	intensity,	BMI, and	stage of	of exercise
		duration, PA	age	change, and	and tiredness
		level, and		motivational	
		history of		readiness	
		exercise			
9	Fahim et	User	Age and	 —	Social
	al [9]	activities	gender		profile,
		and history	(height		emotion,
		of activities	and weight		preferred
			from case		activity,
			study)		food, and
					music
10	Dharia et	Acceleromet	Age and	 —	Location,
	al [10]	er data,	gender		activity
		calories,			preferences,
		history of			and calendar
4.4		activity			availability
11	Rabbi et	Acceleromet	Age,	 —	User
	al [11]	er data,	gender,		preference
		history of	height, and		for
		activity,	weight		suggestion
		MET ^e and			provided and
		calorie for			location
		each activity,			
		and weekly			
		weight goal			

12	Twardows	Fitness level,	Weight	Health care	 Calendar
	ki et al	current		record and	
	[12]	activity, and		pulse	
		next			
		predicted			
		activity			
13	Yom-Tov	Previous day	Age and		
	et al [13]	PA,	gender		
		cumulative			
		number of			
		minutes of			
		PA in week,			
		fraction of			
		activity goal,			
		fraction			
		versus			
		expected at			
		this point in			
		the week,			
		history of			
		messages			
		sent, and			
		number of			
		days since			
		feedback			
		message sent			
14	Lim et al	HR ^f , Step,			 Location,
	[14]	calorie,			mood, User
		history of			feedback on
		recommenda			recommenda
		tions			tions

15	Cook et al	PA level,	Age and		Attitudes,	—
	[15]	minutes of	gender		self-efficacy,	
		PA per day,			social	
		and minutes			support,	
		of MVPA ^g			perceived	
					benefits,	
					perceived	
					barriers, and	
					environment	
16	Larsen et	Frequency,	Height,	Resting	Motivational	—
	al [16]	duration, and	weight,	blood	stage for	
		intensity of	income,	pressure	MVPA	
		MVPA	marital		change,	
			status, and		MVPA	
			family size		change	
					strategies,	
					self-efficacy,	
					decisional	
					balance,	
					family	
					influence	
					and support,	
					peer	
					influence	
					and support,	
					enjoyment	
					for activity,	
					and	
					environment	
					al access	

17	Short et al	Minutes of	Height,	Stage of	Intention,	Location and
	[17]	MVPA per	weight,	breast	barrier,	fatigue
		week and	and BMI	cancer,	outcome	
		resistance		time since	expectations,	
		training		treatment,	social	
		score		current	support, and	
				menopausa	self-efficacy	
				l status, and		
				number of		
				comorbiditi		
				es		
18	Boudreau	Baseline PA	Age,		Intention,	—
	et al [18]	level and	gender,		self-efficacy,	
		minutes of	marital		social	
		PA per week	status,		influence,	
			occupation		attitude,	
			, and		perceived	
			education		benefits, and	
					barriers	
19	Moreau et	Number of	Height,		Intention,	—
	al [19]	times/week	weight,		attitude, self-	
		and	age,		efficacy,	
		minutes/time	gender,		motivation,	
		for vigorous,	occupation		and	
		moderate,	, origins,		confidence	
		and low PA	and			
			marital			
			status			
20	Rajanna et	Activity	Age			Location,
	al [20]	history				time of day,
						weather, and
						calendar

21	Irvine et	Self-reported			Intention,	
	al [21]	PA			barriers, self-	
		(frequency			efficacy,	
		and			stage of	
		duration),			change, and	
		activity plan,			motivation	
		and goal				
22	Friederich	PA level	Age,		Efficacy,	
	s et al [22]		gender,		confidence,	
22	Dislas at	Minutes of	and BMI		and intention	
23	Blake et	Minutes of			Attitude,	
	al [23]	PA			subjective	
					norm,	
					perceived	
					behavior	
					control,	
					intention,	
24	Coolbaug	PA duration,			and behavior	
24	Coolbaug h et al					
		HR, resting				
	[24]	HR,				
		acceleromete				
		r data, and				
		goal (system				
		generated				
25	Hargreave	adaptive) Step count	Height,	Medication	Motivation,	
	s et al [25]		weight,	for blood	intention,	
			and BMI	pressure or	self-efficacy,	
				cholesterol,	and barriers	
				resting HR,		
				blood		

				pressure,		
				glucose,		
				cholesterol,		
				HDL ^h , and		
				triglyceride		
26	Williams	Self-reported		s Stiffness		
20						
	et al [26]	activity		and pain		
		level,				
		exercise				
		history, and				
		daily				
		activities			T7 1 1	
27	Kwasnick	PA minutes,	Age, sex,	Sleep	Knowledge,	
	a et al	and goal	date of	quality and	self-efficacy,	
	[27]		birth,	duration ^d	attitude,	
			height,		perceived	
			weight,		behavioral	
			handednes		control,	
			s, marital		intentions,	
			status,		and outcome	
			ethnicity,		expectations	
			education,			
			household			
			income,			
			post code,			
			number of			
			hours and			
			days			
			worked			
			per week,			
			work			

			level,			
			salary			
			brackets			
			associated			
			with each			
			employme			
			nt level,			
			and type			
			of work			
			undertaken			
28	Janols et	Daily and	Gender,	Pain and	Motivational	Priority of
	al [28]	weekly	age, social	sleeping	info	activities and
		habits	factors,	conditions	available	preference
			and living		with each	
			condition		category of	
					activity	
29	Ali et al	Acceleromet	Age,		—	Preferred
	[29]	er data,	gender,			activities
		duration of	height, and			
		each activity,	weight			
		calories, and				
		recommende				
		d goal (in				
30	Mistry et	METs) Quantity and	Age,		Perceived	Preference
50	al [30]	duration of	gender,		barriers and	of day and
		MVPA and	minority		benefits	time
		goal	status,			
		5001	education,			
			employme			
			nt,			

			household			
			income			
			and			
			marital			
			status			
31	Peels et al	Minutes of	Gender		Stage of	Location and
	[31]	PA	and age		change,	neighborhoo
					awareness,	d
					attitude,	
					knowledge,	
					self-efficacy,	
					motivation,	
					and intention	
32	Klein et al	Steps and	Occupatio		Skills,	Current
	[32]	stairs	n		barriers,	location,
		climbed			outcome	significant
					expectations,	locations,
					subjective	current day,
					PA, and	time,
					stage of	weather, and
					change	social profile
33	Ammann	PA level	Age,		Attitudes,	—
	et al [33]	measured	height,		self-efficacy,	
		using the	weight,		intention,	
		Active	education,		benefits, and	
		Australia	employme		barriers	
		Survey	nt, and			
			BMI			
34	Pyky et al	Accumulate	Height,		Stage of	Social
	[34]	d daily	weight,		change, life	profile
		MVPA time	socioecon		satisfaction,	
		and daily	omic		and self-	

		sitting time	status, and		rated health	
			family			
			income			
35	Varadhara	Acceleromet	Age,		Motivation	Mood and
	jan et al	er data,	height, and			social profile
	[35]	speed,	weight			
		distance, and				
		HR				
36	Codreanu	Execution	Age and	Symptoms	—	"mood
	et al [36]	speed,	weight			temperature
		difficulty				factor"
		level, target				
		zone for HR,				
		pulse, time,				
		and number				
		of exercises				
37	Marsaux	Daily PA	BMI and	Blood total		—
	et al [37]	level,	waist	cholesterol,		
		activity	measurem	L2 and L3,		
		energy	ents	fat mass-		
		expenditure		and		
		(AEE), and		obesity-		
		time spent in		associated		
		different PA		gene, and		
		intensities		FTO gene		

38	Alley et al	PA level,	BMI and		Perceived	Preference
	[38]	number of	age		benefits,	of video
		activity			barriers, self-	calling
		sessions per			efficacy, and	service,
		week, and			attitude	possession
		goal				of a garden,
						distance to
						places
						regularly
						visited,
						working
						status, length
						of lunch
						break,
						facilities at
						work, and
						activity level
						of people
						around
39	Mitchell	Step count,		Anthropom	Perceived	
	et al [39]	PA		etry, blood	barriers, rate	
		monitoring		pressure,	of perceived	
		at baseline,		and blood	exertion, and	
		time in LPA ⁱ		chemistry	affective	
		and MVPA,			state	
		average				
		signal vector				
		magnitude				
		value, and				
		average				
		daily				

		sedentary				
		time				
40	Oosterom				Self-efficacy	
	-Calo et al				and	
	[40]				knowledge	
41	De	ActivPal	Gender,		User	—
	Cocker et	measuremen	age,		attitudes,	
	al [41]	ts, PA from	education,		self-efficacy,	
		questionnair	occupation		social	
		es,	, height,		support,	
		personalized	weight,		knowledge,	
		action plan	and work		intentions,	
		with goal,	hours		and	
		level of			perceived	
		sitting time			benefits and	
		in 5			barriers	
		domains,			related to	
		and			reducing or	
		frequency of			interrupting	
		interruptions			sitting	
		in prolonged				
		sitting				
42	Triantafyll	HR,		medical	—	—
	idis et al	repetitions		condition,		
	[42]	set, accuracy		pain, and		
		of exercise,		blood		
		history log		pressure		
43	Dobrican	HR, training	Age	Anaerobic	—	—
	et al [43]	zone,		threshold		
		duration,		and status		

		frequency,		of whether		
		and intensity		patient		
		of training		under		
		session		treatment		
44	Hales et al	Minutes of	Weight,		Self-efficacy,	_
	[44]	intentional	gender,		and	
		PA and total	race, BMI,		personality	
		calories	education,		characteristic	
			and		d	
			marital			
			status			
45	Martin et	Steps, "zone	Age, sex,			Preference
	al [45]	of	weight,			of calorie
		adherence,"	and height			intake
		and activity				
46	Spark et	Minutes per	Weight			Preference
	al [46]	day MVPA,				for content,
		Average				timing and
		MVPA				frequency of
		minutes, and				text
		goal				messages,
						and self-
						nominated
						reward for
						reaching
						goal
47	Kattelman	PA, food,			Contemplato	—
	n et al	and goal			rs,	
	[47]				precontempl	
					ators, and	
					stage	

48	Partridge		Age and	 Participant's	—
	et al [48]		gender	baseline	
				stage of	
				change and	
				perceived	
				benefits and	
				barriers	
49	Walthouw	Diet and	Weight	 Attitude,	
	er et al	exercise	and BMI	self-efficacy,	
	[49]	pattern		and social	
				influence	
				beliefs	
				regarding PA	
				and diet	

^aPA: physical activity.

^bBCT: behavior change technique.

^cBMI: body mass index.

^dMeasured but unclear if used for personalization.

^eMET: metabolic equivalent.

^fHR: heart rate.

^gMVPA: moderately vigorous physical activity.

^hHDL: high-density lipoprotein.

ⁱLPA: light physical activity.

— : indicates no parameters present in the category

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