	Data Elements*	References
	Personal Information	[17–33]
Patient General Information	Name, photo, date of birth, age, gender, current location, contact	[27 52]
	information, occupation, number of family members, economic history	
	Psychographics	[18,21,23,27,29–31,34–43]
	Leisure, travel history, living conditions, psychosocial information	
	(e.g. social contact, interpersonal relations, caregiving, neglect, abuse),	
	social information history, patient empowerment; patient satisfaction,	
	socializing, Observations of Daily Living, mood, alcohol use, tobacco	
	use, sexual behavior, Tobacco cessation	
	Genetic Data	[18]
	Preferences	[3,22,27,29,31,37,44–48]
	Hospital preferences, pharmacy preferences, emergency contact	
	information, caregiver information, advance directive, living will,	
	power of attorney	
	PHR Settings	[22,25,29,31,34,38,46,49–53]
	Reminder preferences; activation, profile; security and privacy settings	
	registration and authentication (log-in) information; secure message	
	opt-in; protection settings	
	Appointments	[19,21,25,26,29,30,42,46,47,
	schedule date and time, appointment reminders	54–63]
Scheduling	Facility Information	[29]
	Facility contact information	[20, 22, 47, 40, 64]
hed	Personalized Search Results Healthcare providers, health-related services	[20,22,47,49,64]
Sc	Provider Information	[3,19,20,22,24,27,31,32,37,4
	Example: provider (pediatrician, dental) name, photograph, number,	[5,19,20,22,24,27,51,52,57,4   8,63,65]
	address	[ 0,03,03]
	Outpatient Visit Information	[18,21–
S <sub>2</sub>	Visit summary (clinical summary), provider progress notes	23,26,28,32,43,46,47,58,63,6
	J,, I	3,66–69]
Visits	Visit Preparation Information	[24,46,66,70–72]
>	Items to discuss during the visit (examples: care plan using patient	
	chart data, patient goals, referrals, self-care, and patients' responses to	
	pre-visit questionnaires)	
	Vital Signs & Anthropometric Data	[22,23,25,29,30,32,37,39,40,
	Examples: blood pressure (BP), blood glucose, body weight, body	46,47,55,59–62,68–70,73–
	mass index, pediatric measures (head circumference and	76]
S	developmental milestones, growth chart)	
osti	Physiological Information	[36,37,76–78]
Diagnostics	Electrocardiograms, device readings (infra-red and biosensors, video	
	cameras)	F2 10 10 21
	Results	[3,18,19,21– 23,25,26,28,30,31,37,39,42,4
	Lab (chemistry and hematology), imaging, microbiology, pathology, and screenings	6,47,50,56,59–63,66,68–
	and screenings	70,73,75,79–89]
esent	Allergies	[2,3,17,21–
	Examples: allergy record by date, allergic reaction, allergy diagnosis	24,26,27,29,31,33,38,44,48,6
	Examples: unergy record by date, unergic reaction, unergy diagnosis	3,67,69,83,90]
f pi	Diagnosis	[19,21,38,42,47,48,50,91,92]
y of p	Health State	[2,3,18,21–23,28–
History of present illness	Health conditions trends, health status, physical condition, mental	30,33,35,44,48–
	health condition, medical health record, medical records review, oral	50,53,57,58,63,70,77,93,94]
#	health, eye records	, , , , , , , , , , , , , , , , , , ,
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	Medical History	[17,18,22,25,27-
	Medical history, family health history	29,31,42,44,47,48,50,56,57,6
		1,65,66,68,69,71,73,80,83,90
	C . LITTLA	,95–99]
	Surgical History	[3,17,22,24,27,31,38,47,56,7
	Emergency health record (care procedures), hospitalizations	8]
	Problem List	[2,17,18,21–24,26–
	Pre-existing symptoms, new symptoms	28,31,33,36,38,60,61,63,67,6
		9,71,77,92]
	Compliance	[51,66,75,100–102]
	Medication monitoring data (e.g. medication possession ratio),	
	medication adherence outcomes, perceived barriers, medication	
	reminders	
	Medical Equipment/Supplies	[22]
ts	Technology support needs (ventilator, monitor, surgical site care)	
Treatments	<b>Prescription Medications</b>	[3,18,20–27,29–
	Active list (dose, schedule), interaction record and checks, prescription	31,33,34,36,38–40,42,44,46–
	photograph, history, refill request, prescription feedback, medication	52,54–57,60–63,66–
	reconciliation	69,71,75,80,82-
		84,88,90,91,93,95,102–109]
	Self-Treatment	[3,17,29,44,55,82]
	Example: over-the-counter medications, herbals and other supplements	
	Treatment Plan	[3,17,21,27,36,42,43,46–
	Treatment plan description, treatment plan change, specialist referral	48,56,60,71,90,92,110]
70	Outcomes	[22,35,62]
Outcomes	Patient health outcomes, adverse reactions	
50		
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	Patient-Provider Message	[21,25,29,30,35,39–
<b>5</b> 5	Secure messages (content: non-urgent health-related information,	41,52,54–56,61–63,67–
iti d	appointment requests, prescription renewal, health-related concerns)	70,73,80,88,91,93,95,111]
Patient Provider Communication	appointment requests, prescription renewal, neutri related concerns)	70,73,00,00,71,73,73,111]
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Pati Cor		
	Incentive Programs Data	[43,56,66,73,74]
	Certificates of accomplishments (for completing online educational	
SS	quizzes)	
Ĕ	Patient Health Education Material	[21,23,25,29,37–
eso	Instructions and educational material regarding health conditions,	40,43,46,47,54,56,57,59,61,6
🛎	immunizations, over-the-counter medications, contraindicated self-care	4,66,68,69,73,78,81,83,88,93
Educational Resources	activities. clinical trial data	,112,113]
	Trainings	[114]
	Self-management trainings, patient coaching	
	Personalized Health Advice	[18,25,46,55,59,68,100]
	Advice from health support groups (support from patients with similar	[ -,, -,,,,
	health conditions), personalized advice/tips	
	,, personalized actives up	

Patient Environment	Environmental Information Community health concerns; environmental domain (example: income, sanitation, residence, neighborhood-workspace safety)	[36,50,56,67]
Prevention Data	Assessment Information Screening exams, risk/health assessment questions and feedback, routine screening, screening/lab work reminders, potential risk factors, risk profile, personal disease risk	[3,29,31,32,42,43,46,50,81,9 4,110,111,115]
	Immunizations Status, eligibility, due dates, availability, counter-indications, family immunization history, information about disease risk minimization, immunization reminders	[3,18,21,26,29,31–33,38,46–48,50,63,68,69,83,84,112,11 5]
	Personal Health Goals  Desired and planned values (blood sugar, cholesterol/BP), progress towards goals	[19,24,38–40,43,72,74]
	Prevention Adherence Compliance with guideline-recommended services, alerts (e.g. high BP, weight loss)	[69,76,77,100,111,113,116]
	Preventative Care Supplements (e.g. herbal), self-care activities, daily aspirin, preventive care reminders, health maintenance reminders	[18,30,55,57,64,72,79,83,91]
Daily Living Patterns	Home Monitoring Data Nutrition, diet, meals, food intake, exercise, physical activity, estimated calories burnt, health diaries, health maintenance schedule and activities, symptom monitoring, health tracking	[3,17,18,23,31,36,43,62,65,7 2,100,117,118]
Healthcare Administrative Data	Health care cost management Examples: admissions/discharges, health spending, billing data	[23,25,26,42,46,47,56,63]
	Insurance Data Examples: insurance claims, benefits, copay, reimbursement	[3,26,27,30,31,38,44,47,48,7 9,80,91]

Table 1: Patient data elements reported in the literature
\*Data description includes a list of items retrieved from the articles reviewed and is not comprehensive