Appendix 3, Categorization of extracted data

Data item	Categorization	Explanations	Examples
Journal	General medicine	Journals with a broad scope that publish	Nat Biotechnol
		research related to general medicine,	Chron Respir Dis
		oncology and neurology. This category	Clin Chem
		also includes biotechnology and	Med J Aust
		pharmaceutical science.	Nat Med
			Am J Bioeth
			Bmj-British Medical Journal
			PeerJ
			JAMA, Journal of the American Medical
			Association
			Journal of Neurology
			BMC Medicine
			Journal of Neurology
			The Lancet
			Biomedical Engineering Online
			Dermatol Online J
			Internal medicine journal
			Plos One
			BMC Med
	Specialized medicine	Journals with a scope on specific	Epilepsy & Behavior
	·	diagnoses, i.e. diabetes	Clin Orthop Relat Res
			Diabetes Technology & Therapeutics
			Journal of Diabetes Science and
			Technology
			Diabetes
			The American Journal of
			Gastroenterology
			JMIR Ment Health

Appendix 3, Categorization of extracted data

Supplemental material

Pediatric Physical Therapy

American Journal of Gastroenterology

Pediatric Pulmonology

JMIR Pediatrics and Parenting

Techniques in Coloproctology

Practical Diabetes

Diabetes Therapy

Diabetes, Obesity and Metabolism

Breast Cancer Research and Treatment Pediatric Endocrinology Diabetes and

Metabolism

Canadian Journal of Diabetes

Diabetic Medicine

Process related Journals with a focus on process in

research and healthcare, i.e. protocols,

frameworks, methods.

AMIA Annu Symp Proc

Journal of Communication in Healthcare

Trials

Policy Internet

International journal of integrated care

Learn Health Syst JMIR Research protocols Int J Med Inform

BMJ Qual Saf

Digital health Journals with a focus on digital

healthcare, including advances in

technology in medicine and m-health

Journal of Medical Internet Research

Stud Health Technol Inform J Am Med Inform Assoc

Interactive Journal of Medical Research

JMIR Mhealth & Uhealth

NPJ Digit Med

Appendix 3, Categor	ization of extracted data		
			Jmir Mhealth and Uhealth
	Patient oriented	Journals that have patients in focus, i.e. The Patient, that cover development, evaluation and implementation of therapies, technologies, and innovations that will enhance the patient experience.	The Patient
Country	Europe North America South America Asia Oceania Africa	Country of first author's affiliation	
Publication type	Original research	Articles published as "original research", "research article" etc.	Grande SW, Longacre MR, Palmblad K, Montan MV, Berquist RP, Hager A, et al. Empowering Young People Living With Juvenile Idiopathic Arthritis to Better Communicate With Families and Care Teams: Content Analysis of Semistructured Interviews. JMIR mHealth and uHealth. 2019;7(2):e10401
	Short report	Articles published as "Brief report" or "short paper"	Braune K, O'Donnell S, Cleal B, Lewis DM, Tappe A, Hauck B, et al. DIWHY: Factors Influencing Motivation, Barriers, and Duration of DIY Artificial Pancreas System Use among Real-World Users. Diabetes.68:3

Protocol	Articles presenting a study protocol	Rouholiman D, Gamble JG, Dobrota SD, Encisco EM, Shah AG, Grajales FJ, et al. Improving Health-Related Quality of Life of Patients With an Ostomy Using a Novel Digital Wearable Device: Protocol for a Pilot Study. JMIR research protocols. 2018;7(3)
Letter to editor/ commentary	Text published as "letter to the editor", "commentary", "personal view". Not peer-reviewed research.	Riggare S, Unruh KT. Patients organise and train doctors to provide better care. BMJ. 2015;351:h6318
Conference abstract	Published conference abstracts.	Lindblad A, Hedborg A, Elidottir H, de Monestrol I, Hjelte L, Ericson P, et al. SWEDEN'S LEARNING HEALTH SYSTEM APPROACH TO NEW THERAPIES: NINE MONTHS WITH LUMACAFTOR/IVACAFTOR. Pediatr Pulmonol. 2019;54:S444-S
Editorial	Published text written by person having an editorial role at a journal. This was sometimes patients.	deBock M. The 'do it yourself' type 1 diabetes dilemma for medical practitioners. Internal Medicine Journal. 2019;49(5):559-61
Review	We included review-articles that published original data not published elsewhere.	Kublin O, Stepien M. Effect of using the nightscout system on metabolic control, safety, and incidence of complications in patients with diabetes mellitus. Wiadomosci Lekarskie. 2020;73(7):1427-33.

	Special section dedicated to patients	special section "in my own voice" and "personal perspective"	Ahrens S. Opening (and Swallowing) A Can of Worms to Treat My Crohn's Disease. The American journal of gastroenterology.111(7):918- 20.
Study aim	Describe the innovation	Articles with an aim to describe the innovation in some way	Ellis L, Showell C, Turner P. Social media and patient self-management: not all sites are created equal. Studies in health technology and informatics. 2013;183:291-5.
	Describe development of innovation	Articles with an aim to describe some part of development of the innovation	Jennings P, Hussain S. Do-It-Yourself Artificial Pancreas Systems: A Review of the Emerging Evidence and Insights for Healthcare Professionals. Journal of Diabetes Science & Technology. 2020;14(5):868-77.
	Describe users	Articles that aim to describe characteristics of persons who use the innovations	Hng TM, Burren D. Appearance of Do-It-Yourself closed-loop systems to manage type 1 diabetes. Internal Medicine Journal.48(11):1400-4.
	Describe how users perceive the innovations	Articles that aim to describe how users perceive the innovations	Lebenthal Y. Patient Perceptions of Using the OmniPod System Compared with Conventional Insulin Pumps in Young Adults with Type 1 Diabetes. Diabetes technology & therapeutics. 2012;14(5):411-7.
	Test effect/impact of innovations	Articles that aim to test the effect and/or impact of patient-driven innovations	Lemieux P, Yamamoto J, Donovan L. 44 - Do-It- Yourself Artificial Pancreas System Use in Pregnancy in a Real-World Setting: A Case ReportVirtual Diabetes Canada/CSEM

	No design	Empirical data not presented in the article	Seres M. From Patient to Patient-Entrepreneur: Development of an Ostomy Bag Sensor. The American journal of gastroenterology.113(1):8-1
Sample size	1-5		
	5-25		
	26-100		
	101-200		
	201-500		
	501-1000		
	<1001		
Medical condition	Cancer	Breast cancer	Berry DL, Blonquist TM, Halpenny B, Hong F, Morrison-Ma SC, McCullough MC, et al. The Jack Jacket after mastectomy with reconstruction: a randomized pilot study. Breast Cancer Research and Treatment. 2020;179(2):377-85.
	Diabetes		Lewis DM, Leibr, S, Street TJ, Phatak SS. Detecting Insulin Sensitivity Changes for Individuals with Type 1 Diabetes. Diabetes.67:2.
	Disabilities	Cerebral pares	Ardolino E, Flores M, Manella K. Gross Motor Outcomes After Dynamic Weight-Bearing in 2 Children With Trunk Hypotonia: A Case Series. Pediatric Physical Therapy.29(4):360-4.
	Gastrointestinal diseases	Crohn's Disease	Ahrens S. Opening (and Swallowing) A Can of Worms to Treat My Crohn's Disease. The American journal of gastroenterology.111(7):918 20.

Appendix 3,	Categorization of	extracted data
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Mental illness Schizofrenia Vaidyam A, Roux S, Torous J. Patient Innovation in Investigating the Effects of Environmental Pollution in Schizophrenia: Case Report of Digital Phenotyping Beyond Apps. JMIR mental health.

2020;7(8):e19778.

Chiauzzi E, DasMahapatra P, Cochin E, Bunce M, Multiple conditions

Khoury R, Dave P. Factors in Patient Empowerment: A Survey of an Online Patient Research Network. Patient-Patient Centered

Outcomes Research.9(6):511-23.

Parkinson's disease Riggare S, Unruh KT. PERSONAL VIEW Patients organise and train doctors to provide better care.

BMJ-British Medical Journal.351:2.

Rare diseases 22q11 deletion syndrome

Cystic Fibrosis

Lawlor A, Kerin L, Orr D, Leahy R, Crotty F, Kelleher S, et al. Developing integrated care in the context of rare chromosomal conditions: 22q11

Deletion Syndrome; A parent/clinician collaboration. International Journal of Integrated

Care (IJIC). 2017;17:1-2.

1. Ranganathan P, Aggarwal R. Study designs: Part 1 - An overview and classification. Perspectives in clinical research. 2018;9(4):184-

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