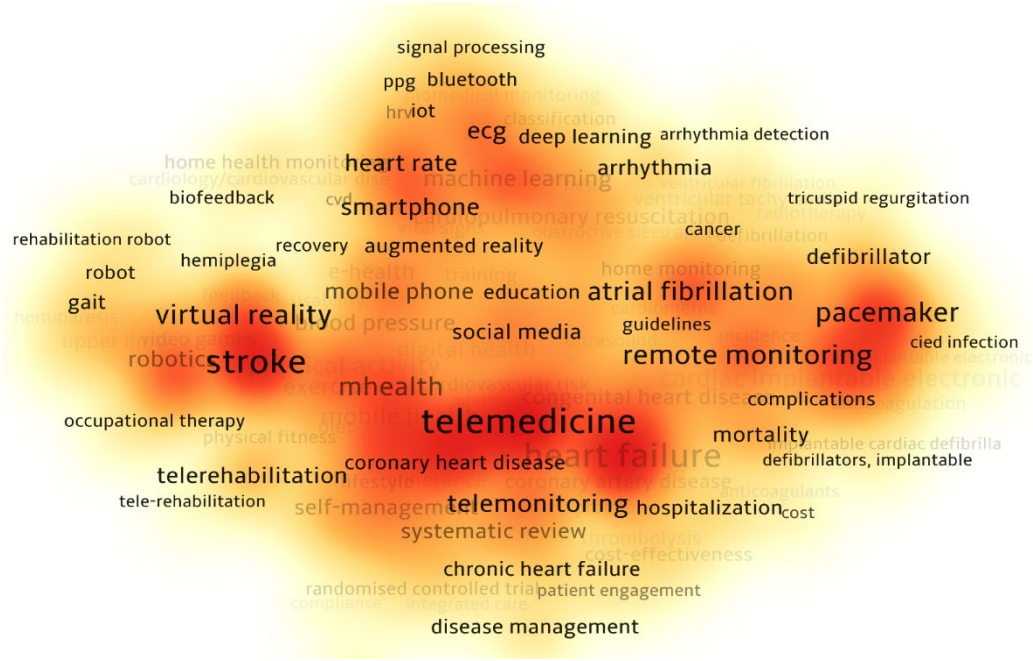
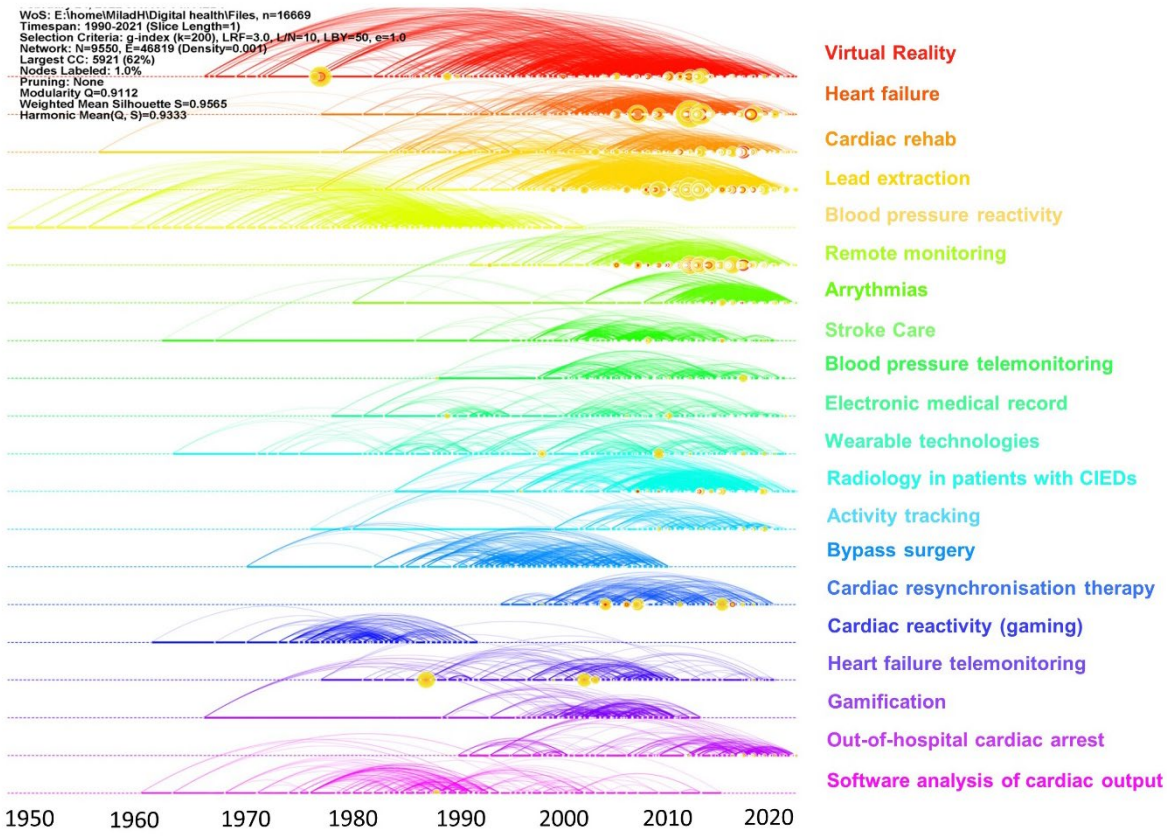
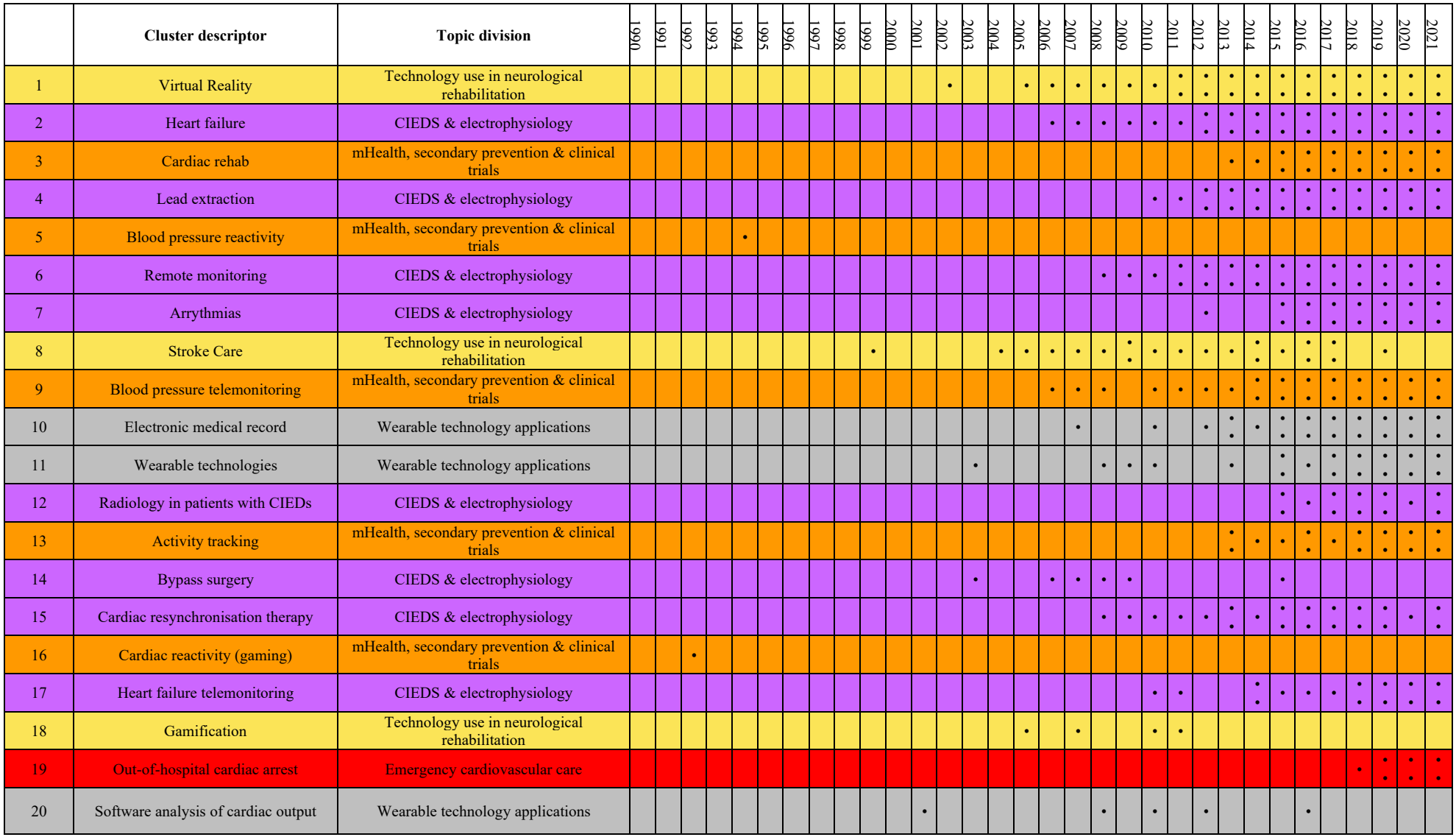


Supplementary Figure 1 Density of co-occurrence of keywords in the literature regarding digital health in cardiovascular medicine. The more significant terms (orange cluster density) are those that occur at increased frequency. An interactive map is available via this link:

https://app.vosviewer.com/?json=https://drive.google.com/uc?id=1dNfiWwb6qAvKTiKEbNXZ0vRcMdCBoYP_



Supplementary Figure 2 Time-line view of the network of document co-citation.



	Cluster descriptor	Topic division	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	Virtual Reality	Technology use in neurological rehabilitation													•			•	•	•	•	•	•	••	••	••	••	••	••	••	••	••	••	••
2	Heart failure	CIEDS & electrophysiology																	•	•	•	•	•	•	••	••	••	••	••	••	••	••	••	••
3	Cardiac rehab	mHealth, secondary prevention & clinical trials																								•	•	••	••	••	••	••	••	••
4	Lead extraction	CIEDS & electrophysiology																					•	•	••	••	••	••	••	••	••	••	••	••
5	Blood pressure reactivity	mHealth, secondary prevention & clinical trials					•																											
6	Remote monitoring	CIEDS & electrophysiology																			•	•	•	••	••	••	••	••	••	••	••	••	••	••
7	Arrythmias	CIEDS & electrophysiology																							•			••	••	••	••	••	••	••
8	Stroke Care	Technology use in neurological rehabilitation										•					•	•	•	•	•	••	•	•	•	•	••	•	••	••		•		
9	Blood pressure telemonitoring	mHealth, secondary prevention & clinical trials																	•	•	•		•	•	•	•	••	••	••	••	••	••	••	••
10	Electronic medical record	Wearable technology applications																		•			•		•		••	••	••	••	••	••	••	••
11	Wearable technologies	Wearable technology applications														•					•	•	•			•		••	•	••	••	••	••	••
12	Radiology in patients with CIEDs	CIEDS & electrophysiology																										••	•	••	••	••	•	••
13	Activity tracking	mHealth, secondary prevention & clinical trials																								••	•	•	••	•	••	••	••	••
14	Bypass surgery	CIEDS & electrophysiology														•			•	•	•	•						•						
15	Cardiac resynchronisation therapy	CIEDS & electrophysiology																			•	•	•	•	•	••	•	••	••	••	••	••	•	••
16	Cardiac reactivity (gaming)	mHealth, secondary prevention & clinical trials			•																													
17	Heart failure telemonitoring	CIEDS & electrophysiology																					•	•			••	•	•	•	••	••	••	••
18	Gamification	Technology use in neurological rehabilitation																•		•			•	•										
19	Out-of-hospital cardiac arrest	Emergency cardiovascular care																													•	••	••	••
20	Software analysis of cardiac output	Wearable technology applications												•							•		•		•			•						

Supplementary Figure 3 Analysis of the activity of digital health innovation within cardiovascular research (1990-2021) as reflected in referencing patterns of citing articles. Moderate activity is represented by the symbol • and strong activity is represented by ••. The colour-coding reflects the divisions of the topic as shown in Figure 4. CVD: cardiovascular disease, CIEDs: cardiac implantable electronic devices.

Supplementary Table 1 Clusters of author collaboration[1].

Cluster	Author name (number of documents, number of links, total link strength*)	Research Focus
#1 (n=30)	Auricchio, Angelo (24, 22, 14);); Birgersdotter-Green, Ulrika (18, 4, 4); Blomstrom-Lundqvist, Carina (19, 21,17); Bongiorni, Maria Grazia (27, 23, 17); Brachmann, Johannes (10, 7, 3); Brugada, Josep (10, 17, 9); Burri, Haran (15, 18, 11); Costa, Roberto (10, 9, 4); Cowie, Martin (24, 9, 8); Cronin, Edmond (10, 11, 9); Dagres, Nikolaos (20, 24, 19); Dickstein, Kenneth (14, 15, 12): Epstein, Laurence (12, 18, 7); Glikson, Michael (10, 15, 4); Heidbuchel, Hein (13, 20, 10); Hindricks, Gerhard (31, 23, 23); Kautzner, Josef (15, 22, 12); Kirchhof, Paulus (11, 16, 7); Lampert, Rachel (11, 9, 6); Lewalter, Thorsten (13, 21, 11); Nielsen, Jens Corsedis (18, 19, 11); Passman, Rod (10, 11, 6); Richter, Sergio (10, 2, 9); Russo, Andrea (10, 11, 8); Sanders, Prashanthan (13, 6, 3); Slotwiner, David (10, 20, 7); Taborsky, Milos (15, 14, 10) Vardas, Panos (20, 23, 17); Varma, Niraj (37, 38, 31); Witte, Klaus (10, 1, 4)	-Arrhythmias -Cardiac electrophysiology -Cardiac pacing
#2 (n=22)	Asirvatham, Samuel (32, 12, 21); Boehmer, John (13, 6, 5); Bordachar, Pierre (16, 5, 14); Cha, Yong-Mei (32, 17, 32); Deharo, Jean-Claude (21, 19, 12); Desimone, Christopher (12, 12, 12); Felmlee, Joel (10, 5, 10); Friedman, Paul (63, 18, 56); Haissaguerre, Michel (11, 3, 10); Hayes, David (27, 27, 25); Hodge, David (11, 14, 10); Khairy, Paul (10, 2, 2); Kramer, Daniel (12, 5, 3); Madhavan, Malini (13, 13, 12); Marijon, Eloi (10, 5, 2); Mcleod, Christopher (11, 9, 11); Mueller, Paul (11, 5, 8); Mulpuru, Siva (12, 8, 10); Ploux, Sylvain (13, 3, 12); Saxon, Leslie (15, 8, 6); Singh, Jagmeet (10, 3, 2); Swetz, Keith (10, 2, 4)	-Atrial fibrillation -Imaging -ECG -CIED lead management & extraction
#3 (n=22)	Biffi, Mauro (31, 31, 30); Boriani, Giuseppe (68, 44, 58); Calo, Leonardo (13, 12, 10); Capucci, Alessandro (14, 17, 12); Curnis, Antonio (23, 23, 21); D'onofrio, Antonio (26, 19, 24); Diemberger, Igor (15, 14, 15); Gargaro, Alessio (15, 12, 15); Giacopelli, Daniele (14, 9, 12); Iacopini, Saverio (10, 16, 8); Landolina, Maurizio (17, 17, 16); Lunati, Maurizio (10, 13, 8); Morichelli, Loredana (12, 13, 12); Padeletti, Luigi (11, 23, 11); Palmisano, Pietro (10, 13, 10); Ricci, Renato Pietro (37, 29, 35); Sanitni, Massimo (10, 11, 8); Valsecchi, Sergio (22, 17, 16); Vitolo, Marco (11, 9, 11); Zanotto, Gabriele (21, 17, 18); Ziacchi, Matteo (14, 16, 14)	-Atrial fibrillation -Cardiac resynchronization therapy
#4 (n=22)	Abella, Benjamin (13, 5, 11); Albert, Nancy (10, 8, 8); Asch, David (14, 5, 8); Audebert, Heinrich (27, 5, 16); Blewer, Audrey (13, 6, 13); Bosworth, Hayden (16, 2, 2); Bowles, Kathryn (12, 1, 2); Chumbler, Neale (11, 2, 2); Demaerschalk, Bart (15, 2, 1); Fonarow, Gregg (30, 14, 21); Heidenreich, Paul (12, 12, 10); Hernandez, Adrian (12, 7, 7); Leary, Marion (17, 7, 15); Liu, Jun (10, 2, 3); Merchant, Raina (13, 7, 11); Peterson, Eric (17, 14, 11); Riegel, Barbara (13, 8, 5); Rumsfeld, John (14, 12, 8); Schenkel, Johannes (16, 2, 13); Schwamm, Lee (13, 10, 7); Spindler, Helle (10, 1, 1); Wang, Wei (11, 2, 1)	-Cardiopulmonary resuscitation -Emergency cardiovascular care -Telemedicine within stroke care
#5 (n=18)	Brunetti, Natale Daniele (16, 4, 11); Capomolla, Soccorso (10, 5, 8); Di Biase, Matteo (10, 1, 8); Ellis, Christopher (11, 1, 1); Fedele, Francesco (11, 8, 7); Giordano, A (15, 6, 15); Glisenti, F (15, 5, 12); Hobbs, Richard (10, 2, 5); Johnson, Paul (12, 2, 6); Kario, Kazuomi (11, 3, 3); Lip, Gregory (31, 23, 16); McManus, Richard (10, 3, 6); Natale, Andrea (11, 4, 4); Omboni, Stefano (16, 4, 7); Parati, Gianfranco (27, 15, 13); Scalvini, Simonetta (31, 9, 25); Zanelli, Emanuella (16, 5, 16)	-Telecardiology -Thromboembolic disease management -Chronic HF -Blood pressure monitoring
#6 (n=15)	Essebag, Vidal (12, 5, 11); Healey, Jeff (16, 17, 13); Hussein, Ayman (11, 6, 10); Kennergren, Charles (15, 21, 12); Korantzopoulos, Panagiotis (10, 9, 5); Krahn, Andrew (13); Mittal, Suneet (26, 29, 18); Philippon, Francois (19, 14, 12); Poole, Jeanne (11, 23, 8); Rickard, John (11, 12, 9); Schaller, Robert (10, 6, 1); Tarakji, Khandoun (37, 27, 34); Verma, Atul (13, 11, 12); Wazni, Oussama (20, 12, 18); Wilkoff, Bruce (57, 31, 49)	-Cardiac resynchronization therapy -Transvenous Lead Extractions -Atrial fibrillation
#7 (n=15)	Gasior, Mariusz (13, 4, 13); Grabowski, Marcin (19, 10, 17); Jachec, Wojciech (13, 8, 13); Kalarus, Zbigniew (16, 17, 16); Kutarski, Andrzej (17, 10, 17); Lenarczyk, Radoslaw (10, 8, 10); Opolski, Grzegorz (22, 11, 22); Piotrowicz, Ewa (39, 22, 35); Piotrowicz, Ryszard (36, 20, 35); Polewczyk, Anna (15, 5, 13); Potpara, Tanjana (10, 13, 10); Steckiewicz, R (13, 2, 3); Szalewska, Dominika (10, 5, 6); Tajstra, Mateusz (12, 3, 11); Zareba, Wojciech (12, 12, 10)	-Telemonitoring in HF -Stroke prevention in atrial fibrillation -Cardiac resynchronization therapy
#8 (n=14)	Ashley, Euan (11, 3, 5); Clark, Robyn (26, 3, 14); Cleland, John (27, 6, 15); Clifford, Gari (12, 3, 3); Harrington, Robert (10, 4, 9); Inglis, Sally (17, 3, 14); Martin, Seth (19, 2, 1); Peiris, David (14, 6, 11); Perel, Pablo (16, 9, 9); Prabhakaran, Dorairaj (10, 7, 9); Prieto-Merino, David (10, 6, 8); Tandon, Nikhil (10, 4, 8); Tarassenko, Lionel (11, 5, 5); Turakhia, Mintu (26, 19, 18)	-mHealth and telemonitoring in HF -ECG data analysis
#9 (n=11)	Chow, Clara (44, 14, 41); Islam, Shariful (10, 7, 9); Jiang, Yannan (20, 3, 17) Lear, Scott (15, 5, 1); Maddison, Ralph (31, 8, 25); Redfern, Julie (49, 13, 45); Santo, Karla (12, 7, 12); Stewart, Ralph (11, 3, 11); Thiagalingam, Aravinda (25, 7, 24); Wang, Jing (13, 1, 1); Robyn Whittaker (21, 9, 19)	-Digital health innovations for secondary prevention of CHD
#10 (n=11)	Baddour, Larry (50, 18, 44); Carrillo, Roger (24, 13, 12); Desimone, Daniel (16, 9, 15); Greenspon, Arnold (17, 16, 13); Henrikson, Charles (10, 5, 6); Miro, Jose (15, 6, 9); Prutkin, Jordan (10, 6, 9); Sohail, Muhammed Rizwan (56, 23, 48); Steckelberg, James (18, 10, 18); Uslan, Daniel (15, 11, 15); Wilson, Walter (23, 11, 23)	-Infections associated with CIEDs

*Total link strength represents the instances of co-authorships within the network.

[1] Smaller clusters that are not included in the table (n ≤ 10), can be visualised in the interactive map using the link under Figure 9.

Supplementary Table 2 Most cited papers (WoS dataset)

Title	Authors (year)	Journal	Citation count (global)
Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring	Schwartz, Tee (1)	Nature Communications	1364
Reducing children's television viewing to prevent obesity - A randomized controlled trial	Robinson (2)	JAMA	1266
Kubios HRV - Heart rate variability analysis software	Tarvainen, Niskanen (3)	Computer Methods and Programs in Biomedicine	1159
Youth Risk Surveillance- United States, 2013	Kann, Kinchen (4)	MMWR Surveillance Summaries	1077
Two-dimensional strain - A novel software for real-time quantitative echocardiographic assessment of myocardial function	Leitman, Lysyansky (5)	Journal of the American Society of Echocardiography	985
Medication Adherence: WHO Cares?	Brown and Bussell (6)	Mayo Clinic Proceedings	924
Effects of robot-assisted therapy on upper limb recovery after stroke: a systematic review	Kwakkel, Kollen (7)	Neurorehabilitation and Neural Repair	932
Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke	Lo, Guarino (8)	New England Journal of Medicine	832
Robot-assisted movement training compared with conventional therapy techniques for the rehabilitation of upper-limb motor function after stroke	Lum, Burgar (9)	Archives of Physical Medicine and Rehabilitation	770
Telemonitoring in Patients with Heart Failure	Chaudhry, Mattera (10)	New England Journal of Medicine	742

Supplementary Table 3 Most cited papers by local citation count (document co-citation output)

Title	Authors (year)	Journal	Citation count (local)
Telemonitoring in Patients with Heart Failure	Chaudhry, Mattera (10)	New England Journal of Medicine	332
2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: The Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC)Developed with the special contribution of the Heart Failure Association (HFA) of the ESC	Ponikowski, Voors (11)	European Heart Journal	291
Update on Cardiovascular Implantable Electronic Device Infections and Their Management: A Scientific Statement From the American Heart Association	Baddour, Epstein (12)	Circulation	270
The post-stroke hemiplegic patient. 1. a method for evaluation of physical performance	Fugl-Meyer, Jääskö (13)	Scandinavian Journal of Rehabilitation Medicine	245
Impact of Remote Telemedical Management on Mortality and Hospitalizations in Ambulatory Patients With Chronic Heart Failure The Telemedical Interventional Monitoring in Heart Failure Study	Koehler, Winkler (14)	Circulation	232
16-year trends in the infection burden for pacemakers and implantable cardioverter-defibrillators in the United States: 1993 to 2008	Greenspon, Patel (15)	Journal of the American College of Cardiology	229
Wireless pulmonary artery haemodynamic monitoring in chronic heart failure: a randomised controlled trial	Abraham, Adamson (16)	Lancet	201
Noninvasive home telemonitoring for patients with heart failure at high risk of recurrent admission and death: the Trans-European Network-Home-Care Management System (TEN-HMS) study	Cleland, Louis (17)	Journal of the American College of Cardiology	198
Implant-based multiparameter telemonitoring of patients with heart failure (IN-TIME): a randomised controlled trial	Hindricks, Taborsky (18)	Lancet	196
Transvenous lead extraction: Heart Rhythm Society expert consensus on facilities, training, indications, and patient management: this document was endorsed by the American Heart Association (AHA)	Wilkoff, Love (19)	Heart Rhythm	190

Supplementary Table 4 Articles with strongest bursts of citation in the literature (document co-citation output)

Title	Author(s) (year)	Journal	Begin	End	Strength
Noninvasive home telemonitoring for patients with heart failure at high risk of recurrent admission and death: the Trans-European Network-Home-Care Management System (TEN-HMS) study	Cleland, Louis (17)	Journal of American College of Cardiology	2006	2014	36.55
Structured telephone support or telemonitoring programmes for patients with chronic heart failure	Inglis, Clark (20)	Cochrane Database of Systematic Reviews	2011	2015	31.81
Randomized trial of a daily electronic home monitoring system in patients with advanced heart failure: the Weight Monitoring in Heart Failure (WHARF) trial	Goldberg, Piette (21)	American Heart Journal 2003	2005	2012	30.79
Telemonitoring or structured telephone support programmes for patients with chronic heart failure: systematic review and meta-analysis	Clark, Inglis (22)	BMJ	2008	2013	26.47
A Meta-Analysis of Remote Monitoring of Heart Failure Patients	Klersy, De Silvestri (23)	Journal of American College of Cardiology	2010	2016	24.48

Supplementary Table 5 Major research streams (clusters) as determined by co-citation of references in the literature of digital health applications in cardiovascular medicine. eMR: electronic medical record; BP: Blood pressure; HRV: heart rate variability

Author descriptor **Other descriptors extracted from titles of citing articles**	**-size -silhouette score -mean year (reference) -year range (reference) -mean year (citing) -year range (citing)**	**Influential references**			**Citing articles with highest coverage**
		Local citation count	**Citation burst strength (strength, duration of burst)**	**Centrality**	
Virtual Reality -chronic stroke -stroke rehabilitation -robot-assisted therapy	-S=795 -SS=0.983 -MY (ref)=2005 -YR (ref)=1964-2020 -MY (citing)=2015 -YR (citing)=1997-2021	1. Fugl-Meyer, Jääskö (13) (245) 2. Laver, George (24) (162) 3. Lo, Guarino (8) (123) 4. Kwakkel, Kollen (7) (121) 5. Folstein, Folstein (25) (99) 6. Langhorne, Coupar (26) (97) 7. Bohannon, Larkin (27) (97) 8. Langhorne, Bernhardt (28) (94) 9. Saposnik, Teasell (29) (87) 10. Lum, Burgar (30) (85)	1. Hesse, Werner (31) (20.13, 2007-2014) 2. Volpe, Krebs (32) (19.5, 2001-2014) 3. Kwakkel, Kollen (7) (19.4, 2009-2015) 4. Krebs, Hogan (33) (19.27, 2000-2013) 5. Aisen, Krebs (34) (18.32, 1999-2013) 6. Lum, Burgar (30) (18.1, 2005-2014) 7. Burgar, Lum (35) (17.72, 2001-2012) 8. Prange, Jannink (36) (17.34, 2008-2014) 9. Lo, Guarino (8) (17.26, 2011, 2016) 10. Fasoli, Krebs (37) (16.38, 2006-2012)	1. Piron, Turolla (38) (0.03) 2. Housman, Scott (39) (0.02) 3. Volpe, Krebs (40) (0.02)	1. Laver, Lange (41) (54) 2. Basteris, Nijenhuis (42) (50) 3. Laver, George (43) (44) 4. Kwakkel, Kollen (7) (36) 5. Masiero, Celia (44) (34) 6. Duret and Gracies (45) (34) 7. Brokaw, Murray (46) (31) 8. Sivan, O'Connor (47) (31) 9. Acosta, Dewald (48) (30) 10. Mehrholz, Hadrich (49) (30)
Heart failure -home telemonitoring -heart failure patients -virtual reality	-S=552 -SS=0.881 -MY (ref)=2007 -YR (ref)=1975-2020 -MY (citing)=2016 -YR (citing)=2005-2021	1. Chaudhry, Mattera (10) (332) 2. Ponikowski, Voors (11) (291) 3. Koehler, Winkler (14) (232) 4. Cleland, Louis (17) (198) 5. Inglis, Clark (20) (151) 6. Ong, Romano (50) (141) 7. Clark, Inglis (22) (140) 8. Klersy, De Silvestri (23) (123) 9. Goldberg, Piette (21) (110) 10. Inglis, Clark (51) (110)	1. Cleland, Louis (17) (36.55, 2006-2014) 2. Inglis, Clark (20) (31.81, 2011-2015) 3. Goldberg, Piette (21) (30.79, (2005-2012) 4. Clark, Inglis (22) (26.47, 2008-2013) 5. Klersy, De Silvestri (23) (24.48, 2010, 2016) 6. Louis, Turner (52) (23.4, 2005-2011) 7. McMurray, Adamopoulos (53) (21.93, 2014-2017) 8. Roger, Go (54) (18.53, 2012-2015) 9. Jerant, Azari (55) (18.27, 2003-2010) 10. Benatar, Bondmass (56) (18, 2006-2014)	1. Jerant, Azari (55) (0.02) 2. Artinian, Harden (57) (0.02) 3. Higgins, Altman (58) (0.02) 4. Hsieh and Shannon (59) (0.02) 5. Finkelstein, Speedie (60) (0.02)	1. Flodgren, Rachas (61) (96) 2. Inglis, Clark (62) (89) 3. Inglis, Clark (20) (85) 4. Di Lenarda, Casolo (63) 5. Aronow and Shamliyan (64) (39) 6. Lin, Yuan (65) (36) 7.Dickinson, Allen (66) (35) 8. Banchs and Scher (67) (34) 9. Givertz, Stevenson (68) (33) 10. Bertini, Marcantoni (69) (33)
Cardiac rehabilitation -coronary heart disease -secondary prevention -cardiovascular disease -medication adherence	-S=487 -SS=0.896 -MY (ref)=2009 -YR (ref)=1954-2020 -MY (citing)=2018 -YR (citing)=1995-2021	1. Chow, Redfern (70) (131) 2. Heran, Chen (71) (128) 3. Varnfield, Karunanithi (72) (107) 4.Burke, Ma (73) (101) 5. Craig, Marshall (74) (76) 6. Kroenke, Spitzer (75) (69) 7. Piepoli, Hoes (76) (69) 8. Eysenbach and Consort (77) (66) 9. Maddison, Pfaeffli (78) (66) 10. Free, Phillips (79) (66)	1. Chow, Redfern (70) (13.05, 2017-2021) 2. McMurray, Adamopoulos (53) 12.22, 2013-2016) 3. Burke, Ma (73) (9.94, 2016-2021) 4. Zutz, Ignaszewski (80) (9.24, 2012-2016) 5. Chan, Tetzlaff (81) (8.99, 2017-2021) 6. Neubeck, Lowres (82) (7.9, 2013-2018) 7. Fjeldsoe, Marshall (83) (7.17 2014-2018) 8. Thakkar, Kurup (84) (7.04, 2016-2021) 9. Lester, Ritvo (85) (7.03, 2015-2018) 10. Dale, Whittaker (86) (7, 2017-2021)		1. Flodgren, Rachas (61) (52) 2. Burke, Ma (73) (38) 3. Dale, Whittaker (86) (29) 4. Devi, Singh (87) (26) 5. Adler, Martin (88) (25) 6. Jin, Khonsari (89) (24) 7. Clark, Conway (90) (23) 8. (91) (22) 9. Brouwers, Kraal (92) (21) 10. Frederix, Vanhees (93) (21)
Lead extraction -risk factor -transvenous lead extraction	-S=424 -SS=0.954 -MY (ref)=2009 -YR (ref)=1972-2020	1.Baddour, Epstein (12) (270) 2.Greenspon, Patel (15) (229) 3.Wilkoff, Love (19) (190) 4.Sohail, Uslan (94) (164)	1. Sohail, Uslan (94) (11.77, 2010-2014) 2. BLOOM, HEEKE (103) (11.72, 2010-2015)	1. Boriani, Maniadakis (109) (0.04) 2. DerSimonian and Laird (110) (0.02)	1. Kusumoto, Schoenfeld (95) (91) 2. Blomström-Lundqvist, Traykov (111) (89) 3. Kusumoto, Schoenfeld (95) (71)

-infective endocarditis -heart failure -antibacterial envelope	-MY (citing)=2017 -YR (citing)=2010-2021	5. Kusumoto, Schoenfeld (95) (160) 6. Klug, Balde (96) (160) 7. Mond and Proclemer (97) (148) 8. Voigt, Shalaby (98) (134) 9 .Sohail, Henrikson (99) (117) 10. Voigt, Shalaby (100) (116) 11.de Oliveira, Martinelli (101) (112) 12. Poole, Gleva (102) (105)	3. Baddour, Epstein (12) (11.4 2012-2016) 4. Sohail, Uslan (104) (10.39, 2010-2014) 5. Habib, Lancellotti (105) (10.26, 2017-2021) 6. Chamis, Peterson (106) (10.07, 2010-2015) 7. Poole, Gleva (102) (9.32, 2014-2017) 8. .Sohail, Uslan (107) (9.17, 2010-2016) 9. Greenspon, Patel (15) (9.06, 2013-2018) 10. Al-Khatib, Lucas (108) (9.03, 2010-2015)		4. Padfield, Steinberg (112) (55) 5. Palmeri, Kramer (113) (54) 6. Frausing, Kronborg (114) (49) 7. Polyzos, Konstantelias (115) (48) 8. Palraj, Farid (116) (47) 9. Arnold and Chu (117) (46) 10. Han, Hawkins (118) (45)
Blood pressure reactivity -type-a-behaviour -challenging task -contingent reinforcement -physiological reactivity	-S=417 -SS=0.985 -MY (ref)=1984 -YR (ref)= 1945-2000 -MY (citing)=1993 -MY (citing)=1991-1997	1. Falkner, Kushner (119) (10) 2. Borghi, Boschi (120) (7) 3. Braden, Leatherbury (121) (7) 4. Park and Menard (122) (6)	1. Falkner, Kushner (119) (6.77, 1991-1995) 2. Borghi, Boschi (120) (4.56, 1991-2001) 3. Braden, Leatherbury (121) (4.53, 1993-2003) 4. Park and Menard (122) (3.98, 1991-1998)	1. Anderson and Armstead (123) (0.03) 2. Anderson, Land (124) (0.03) 3. Beaglehole, Salmond (125) (0.02)	1. Lyness (126) (77) 2. Murphy, Alpert (127) (64) 3. Saab, Tischenkel (128) (48) 4. Miller and Sita (129) (39) 5. Miller, Friese (130) (37) 6. Miller (131) (29) 7. Sorof, Forman (132) (26) 8. Treiber, Raunikar (133) (26) 9. Musante, Raunikar (134) (21)
Remote monitoring -atrial high-rate episode -atrial fibrillation -cardiac rehabilitation -embolic stroke	-S=404 -SS=0.902 -MY (ref)=2010 -YR (ref)=1989-2020 -MY (citing)=2016 -YR (citing)=2007-2021	1. Abraham, Adamson (16) (201) 2. Hindricks, Taborsky (18) (196) 3. Varma, Epstein (135) (183) 4. Crossley et al., 2011) (149) 5. Healey, Connolly (136) (136) 6. Slotwiner, Varma (137) (123) 7. Saxon, Hayes (138) (118) 8. Yancy, Jessup (139) (116) 9. Landolina, Perego (140) (111) 10. Mabo, Victor (141) (104)	1. Raatikainen, Uusimaa (142) (21.37, 2009-2016) 2. Varma, Epstein (135) (21.13, 2011-2016) 3. Ricci, Morichetli (143) (19.32, 2008-2015) 4. Wilkoff, Auricchio (144) (18.98, 2009-2015) 5. Lazarus (145) (17.92, 2008-2014) 6. Schoenfeld, Compton (146) (17.86, 2007-2016) 7. Crossley et al., 2011) (16.39, 2012-2016) 8. Wilkoff, Auricchio (147) (16.2, 2010-2013) 9. Marzegalli, Lunati (148) (15.96, 2009-2015) 10. Fauchier, de Bouët du Portal (149) (15.89, 2007-2014)	1. Wilkoff, Auricchio (144) (0.02) 2. Gladstone, Spring (150) (0.02) 3. Hindricks, Pokushalov (151) (0.02) 4. Adams, Bendixen (152) (0.02)	1. Dubner, Auricchio (153) (56) 2. Flodgren, Rachas (154) (43) 3. Imberti, Tosetti (155) (41) 4. Braunschweig, Anker (156) (37) 5. Sanna (157) (32) 6. Heywood, Jermyn (158) (31) 7. Lucà, Cipolletta (159) (30) 8. Freedman, Hindricks (160) (30) 9. Noseworthy, Kaufman (161) (29) 10. Alvarez, Cronin (162) (29)
Arrythmias -atrial fibrillation -detecting atrial fibrillation -heart failure -heart rhythm -diagnostic accuracy	-S=211 -SS=0.975 -MY (ref)=2015 -YR (ref)=1981-2020 -MY (citing)=2019 -YR (citing)=2006-2021	1. Lau, Lowres (163) (70) 2. Lowres, Neubeck (164) (49) 3. Tison, Sanchez (165) (45) 4. Bumgarner, Lambert (166) (44) 5. Barrett, Komatireddy (167) (40) 6. Haberman, Jahn (168) (40) 7.Chan, Wong (169) (38) 8. McManus, Lee (170) (34) 9. Turakhia, Desai (171) (33) 10. Svennberg, Engdahl (172) (31)	1. Scully, Lee (173) (10.52, 2013-2017) 2. Boulos, Wheeler (174) (8.48, 2012-2016) 3. McManus, Lee (170) (7.07, 2016-2019) 4. Poh, McDuff (175) (5.34, 2015-2018) 5. Tarakji, Wazni (176) (4.95, 2016-2019) 6. Verkruysse, Svaasand (177) (4.34, 2015-2018) 7. Haberman, Jahn (178) (4.32, 2016-2019)	1. Bosworth, Powers (182) (0.04) 2. McManus, Chong (183) (0.04) 3. Boriani, Laroche (184) (0.04) 4. Turakhia, Hoang (185) (0.03) 5. Ades, Pashkow (179) (0.02) 6. Heidbuchel and Hindricks (186) (0.02) 7. Merchant, Abella (187) (0.02)	1. Varma, Cygankiewicz (188) (144) 2. Lopez Perales, Van Spall (189)(29) 3. Li, White (190)(23) 4. Tadi, Mehrang (191) (21) 5. Freedman, Hindricks (160) (20) 6. König, Bollmann (192)(19) 7. Krittanawong, Johnson (193) (18) 8. Pereira, Tran (194) (17) 9. Folke, Andelius (195) (16) 10. McConnell, Turakhia (196) (15)

			8. Ades, Pashkow (179) (4.29, 2003-2015) 9. Bruining, Caiani (180) (4.25, 2016-2019) 10. Jonathan and Leahy (181) (4.05, 2012-2015)		
Stroke Care -integrative stroke care -acute stroke -telemedic pilot project	-S=191 -SS=0.978 -MY (ref)=2006 -YR (ref)=1960-2018 -MY (citing)=2012 -YR (citing)=1999-2020	1. Braun and Clarke (197) (74) 2. Audebert, Schenkel (198) (56) 3. Go, Mozaffarian (199) (55) 4. Schwamm, Holloway (200)(43) 5. Meyer, Raman (201)(43) 6. Marler (202) (42) 7. Audebert, Kukla (203) (41) 8. Shafqat, Kvedar (204) (39) 9. Handschu, Littmann (205) (34) 10. Levine and Gorman (206) (33)	1. Shafqat, Kvedar (204) (18.89, 2003-2013) 2. Audebert, Kukla (203) (15, 2005-2010) 3. Wang, Lee (207) (14.38, 2005-2013) 4. Wiborg and Widder (208) (13.41, 2005-2010) 5. LaMonte, Bahouth (209) (13.1, 2004-2010) 6. Meyer, Raman (201) (13.06, 2009-2016) 7. Schwamm, Rosenthal (210) (12.65, 2005-2010) 8. Audebert, Kukla (211) (12.02, 2007-2010) 9. Schwamm, Holloway (212) (11.95, 2010-2014) 10. Demaerschalk, Miley (213) (11.95, 2007-2015)		1. Audebert, Berger (214) (39) 2. Schwamm, Audebert (215) (37) 3. Schwamm, Holloway (212) (35) 4. Demaerschalk, Miley (213) (32) 5. Demaerschalk (216) (28) 6. Levine and Gorman (206) (23) 7. Johansson and Wild (217) (18) 8. Pervez, Silva (218) (18) 9. Wechsler, Demaerschalk (219) (18) 10. Ickenstein, Horn (220) (16)
Blood pressure telemonitoring -hypertension management -home blood pressure telemonitoring -heart failure	-S=188 -SS=0.922 -MY (ref)=2008 -YR (ref)=1986-2019 -MY (citing)=2016 -YR (citing)=2005-2021	1. Shamseer, Moher (221) (107) 2. Chobanian, Bakris (222) (61) 3. Green, Cook (223) (57) 4. Morisky, Green (224) (39) 5. McManus, Mant (225) (38) 6. Margolis, Asche (226) (35) 7. Hippisley-Cox, Coupland (227) (34) 8. Lewington, Clarke (228) (31) 9. Bodenheimer, Wagner (229) (29) 10. Wootton (230) (28)	1. Wootton (230) (8.63, 2014-2017) 2. Friedman, Kazis (231) (7.21, 2006-2011) 3. Rogers, Small (232) (7.21, 2006-2011) 4. Chobanian, Bakris (222) (6.66, 2005-2013) 5. Shea, Weinstock (233) (6.63, 2010-2016) 6. Ekeland, Bowes (234) (6.39, 2014-2017) 7. Bodenheimer, Wagner (229) (6.39, 2011-2016) 8. Artinian, Washington (235) (6.02, 2005-2010) 9. McKinstry, Hanley (236) (6.02, 2015-2018) 10. Scherr, Zweiker (237) (5.57, 2007-2010)	1. Chobanian, Bakris (222) (0.03) 2.Green, Cook (238) (0.02) 3. Pickering, Hall (239) (0.02)	1. Flodgren, Rachas (154) (33) 2. Omboni and Ferrari (240) (23) 3. Burke, Ma (73) (19) 4. Paré, Jaana (241) (18) 5. Parati and Omboni (242) (16) 6. Omboni, Panzeri (243) (16) 7.Mc Kinstry, Hanley (244) (16) 8. Ringeval, Wagner (245)(15) 9. Oliveira, Paula (246) (15)

Electronic medical record -artificial intelligence -resolution recovery software -remote monitoring -using eMR	-S=169 -SS=0.969 -MY (ref)=2005 -YR (ref)=1976-2019 -MY (citing)=2017 -YR (citing)=1994-2021	1. D'Agostino, Vasan (247) (81) 2. Yusuf, Hawken (248) (75) 3. Charlson, Pompei (249) (62) 4. Lloyd-Jones (250) (52) 5. Wilson, D'Agostino (251) (49) 6. Conroy, Pyörälä (252) (40) 7. Craig, Dieppe (253) (39) 8. Grundy (254) (29) 9. Hannun, Rajpurkar (255) (29) 10. James, Oparil (256) (25)	1. James, Oparil (256) (6.99, 2015-2018) 2. Stone, Robinson (257) (6.64, 2015-2018) 3. Cleeman (258) (5.73, 2007-2013) 4. Wilson, D'Agostino (251) (5.55, 1999-2008) 5. Garg, Adhikari (259) (5.09, 2010-2013) 6. LeCun, Bengio (260) (4.93, 2017-2021) 7. Craig, Dieppe (253) (4.93, 2015-2018) 8. Cabana, Rand (261) (3.73, 2011-2017) 9. (262) (3.61, 2017-2021)		1. Pashos, Normand (263) (28) 2. Krittanawong, Johnson (193) (15) 3. Wasimuddin, Elleithy (264) (14) 4. Davis, Abidi (265) (12) 5.Ting, Peng (266) (10) 6. Seetharam, Kagiyama (267) (10) 7. (268) (10)
Wearable technologies -heart rate variability -heart failure -smartphone seismocardiogram -HRV biofeedback -cardiovascular abnormalities	-S=169 -SS=0.982 -MY (ref)=2002 -YR (ref)=1961-2019 -MY (citing)=2017 -YR (citing)=1991-2021	1. Allen (269) (95) 2. Camm (270) (91) 3. Pantelopoulos and Bourbakis (271) (48) 4. Inan, Migeotte (272) (42) 5. Shaffer and Ginsberg (273) (41) 6. Rajendra Acharya, Paul Joseph (274) (41) 7. Patel, Park (275) (33) 8. (276) (29) 9. Tamura, Maeda (277) (28) 10. Schäfer and Vagedes (278) (26)	1. (270) (10.35, 2002-2010) 2. Hamilton and Tompkins (279) (7.31, 2010-2017) 3. Tamura, Maeda (277) (6.41, 2016-2021) 4. Lee, Chen (280) (5.75, 2008-2014) 5. (281) (4.22, 2008-2011) 6. Hung and Zhang (282) (4.22, 2008-2011) 7. Patel, Park (275) (3.77, 2014-2021)	1. Akselrod, Gordon (283) (0.08) 2. Carroll, Turner (284) (0.07) 3. Rajendra Acharya, Paul Joseph (274) (0.06) 4.Billman (285) (0.03)	1. Sloan and Bigger (286) (30) 2. Chow and Yang (287) (21) 3. Rapalis, Petrėnas (288) (15) 4. (289) (14) 5. Blum, Rockstroh (290) (14) 6. Sufi and Khalil (291) (13) 7. Sufi, Khalil (292) (13) 8. (293) (12) 9. Gratze, Fortin (294) (12) 10. Vogel, Auinger (295) (11)
Radiology in patients with CIEDs -Undergoing radiotherapy -radiologists consensus statement -magnetic resonance -Canadian Association	-S=160 -SS=0.988 -MY (cited)=2009 -YR (ref)=1982-2020 -MY (citing)=2018 -YR (citing)=2010-2021	1. Indik, Gimbel (296) (75 2. Brignole, Auricchio (297) (72) 3. Crossley, Poole (298) (71) 4. Russo, Costa (299) (63) 5. Kalin and Stanton (300) (60) 6. Hurkmans, Knegjens (301) (55) 7. Nazarian, Hansford (302) (50) 8. Wilkoff, Bello (303) (46) 9. Beinart and Nazarian (304) (42) 10. Epstein, Abraham (305) (40)	1. Nazarian, Hansford (302) (9.96, 2015-2019) 2. Wilkoff, Bello (303) (8.81, 2012-2018) 3. Levine, Gomes (306) (7.59, 2010-2018) 4. Sommer, Naehle (307) (7.38, 2015-2018) 5. Gimbel, Bello (308) (7.38, 2015-2018) 6. Higgins, Gard (309) (6.99, 2015-2018) 7. Kalin and Stanton (300) (6.79, 2014-2018) 8. Roguin, Schwitter (310) (6.43, 2010-2015) 9. Cohen, Brinton (311) (6.2, 2014-2018) 10. Roguin, Zviman (312) (6.07, 2008-2017)		1. Indik, Gimbel (313) (43) 2. Yeung, Chacko (314) (32) 3. Muthalaly, Nerlekar (315) (32) 4. Nyotowidjojo, Skinner (316) (23) 5. Zecchin, Severgnini (317) (22) 6. Kalb, Indik (318) (22) 7. Jung, Jäckle (319) (22) 8. Ipek and Nazarian (320) (20) 9. Shah, Patel (321) (20) 10. Miften, Mihailidis (322) (20)
Activity tracking -Validation study -energy expenditure -heart rate -apple watch -physical activity	-S=156 -SS=0.972 -MY (ref)=2011 -YR (ref)=1974-2019 -MY (citing)=2018 -YR (citing)=2010-2021	1. Widmer, Collins (323) (53) 2. Garber, Blissmer (324) (52) 3. Moher, Liberati (325) (46) 4. Bravata, Smith-Spangler (326) (45) 5. Shcherbina, Mattsson (327) (44) 6. Egger, Smith (328) (36) 7. Haskell, Lee (329) (34) 8. Wallen, Gomersall (330) (33) 9. Martin, Feldman (331) (30) 10. Evenson, Goto (332) (28)	1. Evenson, Goto (332) (8.12, 2017-2021) 2. Higgins (333) (7.52, 2012-2015) 3. Graves, Ridgers (334) (7.13, 2013-2016) 4. Haskell, Lee (329) (6.85, 2014-2018) 5. Deutsch, Borbely (335) (5.66, 2011-2015) 6. Germano, Hoes (336) (5.16, 2014-2018) 7. Lanningham-Foster, Foster (337) (4.86, 2011-2014) 8. Ferguson, Rowlands (338) (4.6, 2016-2019) 9. Graf, Pratt (339) (4.32, 2011-2014)	1. Wang, Blackburn (340) (0.03 2. Egger, Smith (328) (0.02) 3. Dooley, Golaszewski (341) (0.02) 4. Bunn, Navalta (342) (0.02)	1. Fuller, Colwell (343) (26) 2. Müller, Wang (344) (22) 3. LeBlanc, Chaput (345) (18) 4. Nelson and Allen (346) (18) 5. Chow and Yang (287) (18) 6. Shrestha, Kukkonen-Harjula (347) (15) 7. Nelson, Low (348) (14) 8. Ringeval, Wagner (245) (13) 9. Lobelo, Kelli (349) (12) 10. Budig, Höltke (350) (12)

			10. Moher, Liberati (325) (4.28, 2016-2021)		
Bypass surgery -coronary artery bypass surgery -distance medicine technology -electronic communication -early recovery telehealth intervention -high disease burden	-S=145 -SS=0.987 -MY (cited)=1997 -YR (ref)=1968-2008 -MY (citing)=2007 -YR (citing)= 1997-2021	1. Ware and Sherbourne (351) (25) 2. Krumholz, Parent (352) (24) 3. (353) (18) 4. Rosamond, Flegal (354) (18) 5. Vinson, Rich (355) (14) 6. Thompson, Buchner (356) (14) 7. Stewart, Marley (357) (11) 8. McMurray and Stewart (358) (7) 9. Hailey, Roine (359) (7)	1. Krumholz, Parent (352) (11.62, 2003-2013) 2. Shah, Der (353) (11.4, 2003-2008) 3. Vinson, Rich (355) (8.56, 2003-2009) 4. Rosamond, Flegal (354) (7.73, 2009-2015) 5. Stewart, Marley (357) (6.5, 2003-2010) 6. Ware and Sherbourne (351) (4.89, 2003-2009) 7. McMurray and Stewart (358) (4.41, 2006-2009) 8. Hailey, Roine (359) (4.31, 2004-2009)		1. Balas, Jaffrey (360) (32) 2. Barnason, Zimmerman (361) (30) 3. Barnason, Zimmerman (362) (30) 4. LaFramboise, Todero (363) (19) 5. Brennan, Moore (364) (19) 6. Fonarow, Abraham (365) (13) 7. Louis, Turner (366) (13) 8. Zimmerman and Barnason (367) (13) 9. Artinian, Harden (368) (12) 10. Strömberg (369) (10)
Cardiac resynchronisation therapy -left ventricular -device therapy -sudden cardiac death	-S=136 -SS=0.927 -MY (ref)=2007 -YR (ref)= 1992-2018 -MY (citing)=2016 -YR (citing)=2001-2021	1. Brignole, Auricchio (370) (136) 2. Moss, Zareba (371) (133) 3. Bardy, Lee (372) (127) 4. Cleland, Daubert (373) (98) 5. Bristow, Saxon (374) (92) 6. Moss, Hall (375) (62) 7. Priori, Blomström-Lundqvist (376) (52) 8. Moss, Hall (377) (49) 9. Moss, Schuger (378) (44) 10. Tang, Wells (379) (43)	1. Epstein, Dimarco (380) (9.1, 2011-2017) 2. Moss, Hall (377) (5.78, 2009-2015) 3. Tang, Wells (379) (5.67, 2013-2017) 4. Abraham, Fisher (381) (5.49, 2003-2011) 5. McMurray, Solomon (382) (5.43, 2017-2021) 6. Bristow, Saxon (374) (5.2, 2009-2017) 7. Bardy, Lee (372) (5.02, 2008-2013) 8. Cleland, Daubert (373) (5.02, 2007-2015) 9. McAnulty, Halperin (383) (4.75, 2015-2018) 10. Moss, Zareba (371) (4.7, 2008-2013)	1. Bristow, Saxon (374) (0.03)	1. Hussein and Wilkoff (384) (23) 2. Alvarez, Cronin (162) (19) 3. Tseng, Kunze (385) (17) 4. Linde, Bongiorni (386) (16) 5. Sandhu, Levy (387) (15) 6. Gopinathannair, Cornwell (388) (14) 7. Ng Chee and Mela (389) (13) 8. Chia and Foo (390) (13) 9. Boriani, De Ponti (391) (12) 10. Saad, Hentschel (392) (120
Cardiac reactivity (gaming) *--physiological reactivity* *-type-a-behaviour pattern*	-S=119 -SS=0.996 -MY (ref)=1981 -YR (ref)=1959-1990 -MY (citing)=1991 -YR (citing)=1990-1992 *Oldest*	1. Krantz and Manuck (393) (13) 2. Dembroski, MacDougall (394) (4) 3. Keys, Taylor (395) (4) 4. Houston, Smith (396) (4)	1. Krantz and Manuck (393) (8.74, 1990-1996)	1. Krantz and Manuck (393) (0.02)	1. Lundberg, Rasch (397) (38) 2. Svebak, Knardahl (398) (37) 3. Larkin, Zayfert (399) (34) 4. Larkin, Manuck (400) (27)

Heart failure telemonitoring *-wireless telemonitoring* *-principal components analysis* *-cardiac abnormalities*	-S=119 -SS=0.989 -MY (ref)=2000 -YR (ref)=1975-2018 -MY (citing)=2017 -YR (citing)=1992-2021 *Computer based stuff*	1. Pan and Tompkins (401) (186) 2. Goldberger, Amaral (402) (156) 3. Moody and Mark (403) (78) 4. Oresko, Jin (404) (35) 5. Hochreiter and Schmidhuber (405) (29) 6. Kiranyaz, Ince (406) (28) 7. Miao, Cheng (407) (19) 8. Gradl, Kugler (408) (18) 9. Acharya, Oh (409) (17) 10. Luz, Schwartz (410) (17)	1. Oresko, Jin (404) (5.02, 2013-2018)	1. Pan and Tompkins (401) (0.03)	1. Factor, Gelernter (411) (30) 2. Mamaghanian, Khaled (412) (17) 3. Ibaida, Khalil (413) (16) 4. Mamaghanian, Khaled (414) (16) 5. Wasimuddin, Elleithy (264) (15) 6. Ryan, Sullivan (415) (12) 7. Faezipour, Saeed (416) (10) 8. Kanoun, Mamaghanian (417) (10) 9. Ryan, O'Sullivan (418) (9) 10. Faezipour, Saeed (419) (9)
Gamification -Xbox gaming platform -congestive heart failure -African American -organised program -lifesaving treatment	-S=113 -SS=0.968 -MY (ref)=2001 -YR (ref)=1964-2011 -MY (citing)=2007 -YR (citing)=2004-2011	1. Adams Jr, Fonarow (420) (17) 2. Grady, Dracup (421) (15) 3. Massie and Shah (422) (10) 4. Haddad, Hunt (423) (10) 5. Rosamond, Flegal (424) (8) 6. Finkelstein and Cha (425) (6) 7. Stewart, Pearson (426) (6)	1. Grady, Dracup (421) (5.99, 2005-2012) 2. Massie and Shah (422) (5.73, 2005-2011) 3. Rosamond, Flegal (424) (4.72, 2007-2011) 4. Stewart, Pearson (426) (3.87, 2005-2008)		1. Finkelstein and Wood (427) (20) 2. Finkelstein and Wood (428) (16) 3. Finkelstein and Dennison (429) (14) 4. Finkelstein, Cha (430) (14) 5. Fonarow, Abraham (431) (14) 6. Baker, Persell (432) (13) 7. Kleinpell and Avitall (433) (13) 8. Finkelstein, Wood (434) (12) 9. Fonarow, Abraham (365) (12) 10. Müller-Nordhorn and Willich (435) (12)
Out-of-hospital cardiac arrest -first responder -cardiopulmonary resuscitation -citizen responded -cardiovascular care science	-S=110 -SS=0.988 -MY (ref)=2010 -YR (ref)=1988-2020 -MY (citing)=2020 -YR (citing)=2000-2021	1. Ringh, Rosenqvist (436) (54) 2. Zijlstra, Stieglis (437) (36) 3. Hasselqvist-Ax, Riva (438) (32) 4. Perkins, Handley (439) (31) 5. Pijls, Nelemans (440) (31) 6. Brooks, Simmons (441) (25) 7. Sasson, Rogers (442) (25) 8. Berglund, Claesson (443) (25) 9. Caputo, Muschietti (444) (24) 10. Monsieurs, Nolan (445) (21)	1. Brooks, Simmons (441) (7.25, 2017-2021) 2. Rumsfeld, Brooks (446) (5.51, 2017-2021)		1. Berg, Cheng (447) (32) 2. Greif, Bhanji (448) (27) 3. Semeraro, Greif (449) (27) 4. Sarkisian, Mickley (450) (27) 5. Scquizzato, Pallanch (451) (16) 6. Derkenne, Jost (452) (15) 7. Lyznicki, Williams (453) (15) 8. Matinrad, Granberg (454) (13) 9. Folke, Andelius (455) (13) 10. Metelmann, Metelmann (456) (13)
Software analysis of cardiac output -ventricular volume -quantitative gated SPECT software -segmental wall motion -ejection fraction	-S=108 -SS=0.996 -MY (ref)=1989 -YR (ref)=1958-2013 -MY (citing)=2007 -YR (citing)=1992-2020	1. Bland and Altman (457) (98) 2. Agatston, Janowitz (458) (10) 3. Germano, Kiat (459) (10) 4. Critchley and Critchley (460) (4) 5. DePuey, Nichols (461) (4)	1. Germano, Kiat (459) (5.89, 1998-2009)	1. Bland and Altman (457) (0.06) 2. Devereux, Pickering (462) (0.02) 3. Alderman, Ooi (463) (0.02)	1. Prisant, Bottini (464) (54) 2. Burker, Fredrikson (465) (15) 3. Lum and Coel (466) (7) 4. Knollmann, Helmig (467) (7)

Supplementary Methods Search query for WoS

TI=((heart OR cardiovascular OR cardiac OR cardiorespiratory OR cardiopulmonary OR cardiometabolic OR stroke OR myocardial OR coronary) AND (“health technology” OR “health technologies” OR “healthcare technology” OR “healthcare technologies” OR “electronic healthcare” OR “digital healthcare” OR “health tech” OR "mobile application*" OR "mobile app*" OR “digital device*” OR “electronic device*” OR “web-based” OR “web based” OR cybermedicine OR cybertherapy OR “online community” OR “online platform*” OR webinar* OR telehealth OR telemedicine OR “telehealth app*” OR “telemedicine app*” OR robot OR “videogame*” OR “video game*” OR “computer game*” OR wii OR gamification OR “immersive technology” OR VR/AR OR “immersive technologies” OR “immersive tech” OR “virtual reality” OR “virtual realities” OR “augmented reality” OR “augmented realities” OR “mixed reality” OR “mixed realities” OR “smart speaker” OR “smart device*” OR avatar* OR chatbot* OR “voice search” OR “voice activation” OR ehealth OR “electronic health” OR “digital health” OR emedicine OR “electronic medicine” OR “digital medicine” OR mhealth OR “mobile health” OR “text message” OR “text messaging” OR “text-messaging” OR “short message service” OR SMS OR “video-assisted” OR “video health” OR Twitter OR “social media” OR “Youtube” OR “Instagram” OR “facebook” OR tiktok OR smartphone* OR “smart technology” OR “smart technologies” OR “smart sensor” OR “body sensor*” OR “wireless sensor*” OR “voice technology” OR “voice technologies” OR iphone OR ipad OR “mobile phone*” OR “cell phone*” OR “android phone*” OR “telemedical” OR “health tracker*” OR “fitness tracker*” OR “fitness watch” OR “apple watch” OR fitbit OR garmin OR “activity tracker*” OR “electronic prescribing” OR “E-prescription” or eprescription* OR evisit OR “E-visit” OR “health information technology” OR “health information technologies” OR “blockchain” OR “health wearables” OR “wearables" OR “wearable devices” OR “wearable technology” OR “wearable technologies” OR telecardiology OR telemonitored OR telemonitor OR telerehabilitation OR “health monitoring system” OR “healthcare monitoring system” OR “Internet of things” OR bluetooth“ OR electronic database” OR “texting” OR “software” OR “webpage” OR “website” OR “internet-based” OR “electronic medical record*” OR “personal health record*” OR “electronic health record*” OR “health monitoring device” OR “personal monitoring device” OR “home monitoring device” OR “fitness app*” OR “sleep tracking device” OR “sleep tracking app*”)) OR

((TI=(obesity OR diabetes OR nutrition OR “physical activity” OR “physical inactivity” OR diet OR dietary OR “blood pressure” OR hypertensive OR hypertension OR smoking OR alcohol OR overweight OR sedentary OR cholesterol OR triglycerides OR lipid* OR dyslipidemia OR dyslipidaemia OR stress OR hypercholesterolaemia) AND AB=(cardiovascular or cardiac)) AND TI=(“health technology” OR “health technologies” OR “healthcare technology” OR “healthcare technologies” OR “electronic healthcare” OR “digital healthcare” OR “health tech” OR "mobile application*" OR "mobile app*" OR “digital device*” OR “electronic device*” OR “web-based” OR “web based” OR cybermedicine OR cybertherapy OR “online community” OR “online platform*” OR webinar* OR telehealth OR telemedicine OR “telehealth app*” OR “telemedicine app*” OR robot OR “videogame*” OR “video game*” OR “computer game*” OR wii OR gamification OR “immersive technology” OR VR/AR OR “immersive technologies” OR “immersive tech” OR “virtual reality” OR “virtual realities” OR “augmented reality” OR “augmented realities” OR “mixed reality” OR “mixed realities” OR “smart speaker” OR “smart device*” OR avatar* OR chatbot* OR “voice search” OR “voice activation” OR ehealth OR “electronic health” OR “digital health” OR emedicine OR “electronic medicine” OR “digital medicine” OR mhealth OR “mobile health” OR “text message” OR “text messaging” OR “text-messaging” OR “short message service” OR SMS OR “video-assisted” OR “video health” OR Twitter OR “social media” OR “Youtube” OR “Instagram” OR “facebook” OR tiktok OR smartphone* OR “smart technology” OR “smart technologies” OR “smart sensor” OR “body sensor*” OR “wireless sensor*” OR “voice technology” OR “voice technologies” OR iphone OR ipad OR “mobile phone*” OR “cell phone*” OR “android phone*” OR “telemedical” OR “health tracker*” OR “fitness tracker*” OR “fitness watch” OR “apple watch” OR fitbit OR garmin OR “activity tracker*” OR “electronic prescribing” OR “E-prescription” or eprescription* OR evisit OR “E-visit” OR “health information technology” OR “health information technologies” OR “blockchain” OR “health wearables” OR “wearables" OR “wearable devices” OR “wearable technology” OR “wearable technologies” OR telecardiology OR telemonitored OR telemonitor* OR telerehabilitation OR “health monitoring system” OR “healthcare monitoring system” OR “Internet of things” OR bluetooth“ OR electronic database” OR “texting” OR “software” OR “webpage” OR “website” OR “internet-based” OR “electronic medical record*” OR “personal health record*” OR “electronic health record*” OR “health monitoring device” OR “personal monitoring device” OR “home monitoring device” OR “fitness app*” OR “sleep tracking device” OR “sleep tracking app*”)) OR

AB=((“heart disease” OR “heart attack” OR “heart failure” OR “heart arrythmia*” OR “heart valve” OR cardiovascular OR cardiac OR cardiorespiratory OR cardiometabolic) AND (“health technology” OR “health technologies” OR “healthcare technology” OR “healthcare technologies” OR “electronic healthcare” OR “digital healthcare” OR “health tech” OR "mobile application*" OR "mobile app*" OR “digital device*” OR “electronic device*” OR “web-based” OR “web based” OR Cybermedicine OR cybertherapy OR “online community” OR “online platform*” OR telehealth OR telemedicine OR “telehealth app*” OR “telemedicine app*” OR “videogame*” OR “video game*” OR “computer game*” OR wii OR gamification OR “immersive technology” OR VR/AR OR “immersive technologies” OR “immersive tech” OR “virtual reality” OR “virtual realities” OR “augmented reality” OR “augmented realities” OR “mixed reality” OR “mixed realities” OR “smart speaker” OR “smart device*” OR avatar* OR chatbot* OR “voice search” OR “voice activation” OR ehealth OR “digital health” OR emedicine OR “digital medicine” OR mhealth OR “mobile health” OR “text message” OR “text messaging” OR “text-messaging” OR “short message service” OR SMS OR “video-assisted” OR “video health” OR Twitter OR “social media” OR “Youtube” OR “Instagram” OR tiktok OR smartphone* OR “smart technology” OR “smart technologies” OR “smart sensor” OR “body sensor*” OR “wireless sensor*” OR “voice technology” OR “voice technologies” OR iphone OR ipad OR “mobile phone*” OR “cell phone*” OR “android phone*” OR “telemedical” OR “health tracker*” OR “fitness tracker*” OR “fitness watch” OR smartwatch OR “apple watch” OR fitbit OR garmin OR “activity tracker*” OR “electronic prescribing” OR “E-prescription” or eprescription* OR evisit OR “E-visit” OR “health information technology” OR “health information technologies” OR “blockchain” OR “health wearables” OR “wearables" OR “wearable devices” OR “wearable technology” OR “wearable technologies” OR telecardiology OR telemonitored OR telemonitor* OR telerehabilitation OR “health monitoring system” OR “healthcare monitoring system” OR “Internet of things” OR Bluetooth OR “health monitoring device” OR “personal monitoring device” OR “home monitoring device” OR “fitness app*” OR “sleep tracking device” OR “sleep tracking app*” OR smartwatch)) OR

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