## Supplement

List of included studies provided in pages 21-26 of this supplement.

Table: Summary of digital health innovations (DHI) implemented for non-communicable disease (NCD) management in COVID-19 pandemic era.

SL No	Author last name	DHI	Summary of DHI	Communication medium/device	Non-digital/ non-remote component of DHI (if any)				Financial aspects	Targeted NCD	Comparis on
Menta	al health (Incl	uding neurological & neur	odevelopmental disorders)								
1	Banks2021	Telemedicine Low-cost high Value E- care (LoVE)-virtual clinics	Telemedicine. Low-cost high Value E-care (LoVE)- virtual clinics. OPD clinic appointments over telephone calls, emails.	Telephonic calls, Emails	-		No online platform	Unclear	Unclear	Chronic epilepsy	Pre- pandemic data
2	Budhwani2 021 <sup>2</sup>	Virtual care management Part of Women's Virtual	Part of Women's Virtual. Virtual care and virtual registration, scheduling, check-in, management. Video and phone.	Video and phone	Option of in-person visits	with option of in- person	Zoom, EPIC Electronic medical record (EMR) portal integrated MyHealthRecord		Billing codes for phone & video visits	Mental health	Pre- pandemic data
3	Carroll202 1 <sup>3</sup>	Teleheath outpatient consultation and rehabilitation services	Teleheath video conference and call- consultations/ review, therapy, rehab, group and individual, interdisciplinary assessment.	Videoconference and call	-	Remote	MS teams, call	Unclear	Unclear	Mental health	None
4	Cooper202 1 <sup>4</sup>	Telemedicine Cognitive well-being intervention	cognitive well-being	Step-counting watch, food package, video call	Non-perishable food delivery; a step-counting watch; session materials provided to participants before intervention start	Both	Zoom		Initial £18 worth food package provided to participants	Dementia	None
5	d'Arma202 1 <sup>5</sup>	"Virtual Instrument fOr healthy Lifestyle Adherence" Healthy lifestyle promotion	"Virtual Instrument fOr healthy Lifestyle Adherence" lifestyle promotion (multiple intervention domains). Computer or phone.	Computer or phone	-		VIOLA app (Virtual Instrument fOr healthy Lifestyle Adherence)	Unclear	Unclear	Multiple sclerosis	None
6	Davenport 2021 <sup>6</sup>	Pre-clinic triage	Person-centred care: Data collection, storage,	Unclear	-		InnoWell platform	Unclear	Unclear	Mental health	None

			scoring, transmission, self- management, early intervention, shared decision making, routine outcome monitoring. Personalised, measurement-based care model of care.								
7	Di Lorito2021 <sup>7</sup>	Tele-rehabilitation	Tele-rehabilitation- Video patient consultation.	Video	-	Remote	Q-health	Secure access by one- time use code	Unclear	Dementia	None
8	20218	VA Caring for Our Nation's Needs Electronically.	VA Caring for Our Nation's Needs Electronically behavioural therapy, psychoeducation & support. Telehealth	Phone	-	Remote	Qualtrics, VA WebEx and/or VA video connect (VVC)	(HIPAA)-compliant	Health Insurance Portability and Accountabilit y Act (HIPAA)	Mental health	None
9		FOCUS program Virtual continuity of care including rehabilitation and support	FOCUS program. Virtual multidisciplinary continuity of care visits by telephone/online tele-health platforms. Monitoring, management, guidance, assistance, rehabilitation, recovery support.	Mobile phones and tablet computers		Remote with option of in- person	Zoom		Limited mobile phones and tablet computers, with data plans, mobilized from public and corporate donors.	Mental health	None
10		Virtual/remote partial hospital program (PHP) Stepping down from In- patient care management	hospital program (PHP)	Email, video, videoconferencing, patient package	Evaluation of patient by inpatient team	Both	Zoom	Unclear	Unclear	Mental health	None

			planning, medication management, therapy sessions, vocational counselling, 1 family meeting (encouraged)								
11		Medminder "Jon" version electronic pillbox Take home medicine management	Commercially available Medminder "Jon" version electronic pillbox. Takehome medicine management: alerts/audio & visual prompts, preprogrammed time windows & auto unlock at medication time. Staff reprogrammable, monitoring (e.g. suspected tampering). support & counselling.	Pillbox, Telephonic call	In-person refill visits, nurse monitoring, prescription cards	Both		server (without patient identifiers) via an autonomous cellular signal independent from patient cellular access.	Monthly pillbox lease costs covered by Johns Hopkins Bayview Medical Center (\$40.00/ pillbox; ~\$1.00/day). HIPAA- compliant	Substance abuse disorder	None
12	Kim2021 <sup>12</sup>	Exercise management strategy	Remotely supervised technology-based, reinforcing, and multimodal exercise management strategy. Recorded videoguided exercise, reminders. Individualized monitoring and management.	Smartphone, Videos	For app install on smartphones and information provision.	Both	Customized app	Unclear	Unclear	Parkinsonism	None
13		Telehealth exposure- based Intensive outpatient program (IOP)	Telehealth exposure- based IOP (includes all initial assessment & intake procedures). Individual multidisciplinary meetings, group meetings. Meals eaten in group setting &/or with individual therapists.	unclear	-	Remote	Zoom	Unclear	Unclear	Eating disorders	None
14		Clinical telemedicine using hybrid face robot Cognitive engagement and mental health support delivery		(Clinician room) laptop with robot's control, Bluetooth wireless microphone (Patient room in clinic) Tablet with hybrid face robot, webcam to	-	In-person	Hybrid face robot. Voice system with cloud-based Al support	Unclear	Low cost	Dementia	None

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			representation. Voice system with cloud-based Al support. Telemedicine at SCARF with a dementia patient. Robotic affective communication (Wizard of Oz).	capture participant's emotions 2 phones: Troubleshoot 2-way voice communication							
15	15	Telemedicine program Virtual mental health and behavioural change intervention	Telemedicine program: Virtual mental health and behavioural change intervention. Individual and group classes and therapy including yoga. Live, synchronous, 2-way interaction between HABIT dyads and HABIT staff.	Computer/ laptop with web camera and microphone	-		Mayo Clinic's Video Anyplace Telemedicine program via Zoom; supported by Mayo Clinic's Connected Care Video Support Team.		HIPAA- compliant. Other details unclear	Mild cognitive impairment	Pre- pandemic face to face treatment model
16	Looi2021 <sup>16</sup>	Telepsychiatry consultations and psychotherapy	Telepsychiatry consultations- individual and group psychotherapy video and telephone consultations. Videos and articles, discussions, instructions and support, medication management	Video and telephone	Option of in-person visit	Remote with option of in- person	Video & telephone/audio software platforms	challenges	Medicare benefits schedule	Mental health/ psychiatry	In-person consultati on from July 2018 to June 2019
17	Mesika202 1 <sup>17</sup>	Telehealth psychotherapy	Telehealth meetings, group therapy (including dance therapy), activity and psychotherapy.  Mobile phone videos, online and outdoor therapy.	Voice call, voice conference call, and video	Initial in-person interview, outdoor group sessions within the hospital (e.g. basketball field and the gardens)	Both	WhatsApp	Unclear	Unclear	Chronic post - traumatic stress disorder (PTSD)	Treatment as usual group (Or Standard care)
18	Malka2021	Telepsychiatry therapy & support	Telepsychiatric visits, follow up, maintenance care, tele-clinic therapy.	Computer	-	Remote	version 2.0.0	Details unclear; only that it was approved by Ministry	Unclear	Adult depression	None
19	Motolese2 021 <sup>19</sup>	Remote patient monitoring (RPM)	Remote patient monitoring self-evaluation, monitoring, email and video instruction (in app). Smartphone-based neurological tests (iOS and Android). Phone call, email.	Smartphone-based neurological tests (iOS and Android), Phone call, email, video	-		HomeTM smartphone application	Anonymized app data. Secure transmission (using HTTPS); Azure for data store and processing	Unclear	Parkinsonism	None

20	Nicholas20 21 <sup>20</sup>	BRACE project Telehealth therapy	Part of BRACE project. Telehealth service delivery via videoconferencing. Therapy, risk assessment, management. Computer or smartphone with microphone, video.	Videoconferencing. Computer or smartphone with microphone, video	In-person review in clinical exceptions	Remote unless in- person required	Unclear	Unclear	Unclear	Mental health	Pre- pandemic data
21	21	Palliative Hospital- Centered Spiritual and Psychological Telehealth System	Palliative Hospital- Centered Spiritual and Psychological Telehealth System, a mobile palliative care team, synchronic videoconferences.	Videoconferences, 2 Ipads, 2 smartphones with camera & audio	At least one in-person assessment and information delivery	Both	Zoom, WhatsApp	Anonymous electronic database	Unclear	Mental health/ life-limiting illness	None
22		Teleconsultation, therapy and support	Teleconsultation: disease review, prescription, medication and adverse effects management, advice, counsel, treatment, follow-up teleconsultations were not arranged follow-ups. telephone calls, SMS, text, picture, video messages-Multiple modes for compliance, to avoid errors/ misinterpretation/	Telephone calls, SMS, text, picture, video messages- Multiple modes for compliance, to avoid errors/ misinterpretation	-	Remote	WhatsApp	Unclear	Unclear	Child epilepsy, other neurological disorders with epilepsy	None
23	Paul2020 <sup>23</sup>	Tele-psychotherapy	Tele-psychotherapy sessions, VR headset for simulation and data collection. Activity engagement between sessions.	VR headset	-	Remote	Zoom	Unclear	Unclear	Major depressive disorder	None
24	Peralta202 0 <sup>24</sup>	Teleconsultation	Special telephone service with exclusive line with telephonic contacts & schedules of specialists: free care and referral through calls, video calls, or text message.	Calls, video calls, or text message	In-person evaluation when required	Remote unless in- person required	*462 emergency operations center	Unclear	Free, without requiring a specific contract with a telephone carrier	Mental health	None
25		Ultra-brief psychological interventions (UBPI)	Ultra-brief psychological interventions (UBPI) modified. Virtual PFA for	Phone	-	Remote	Web-based platform, COVID-	Unclear	Unclear	Mental health	None

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		Tele-mental health and psychosocial support service. Hotlines.	psychological interventions based on 'look, listen and link'.				care web chat portal				
26	Pollard202 1 <sup>26</sup>	Telehealth therapy	Telehealth service delivery of ABA treatment. synchronous videoconferencing. 3 models: techniciandelivered, caregiverassisted, caregiverimplemented telehealth model.	Smartphone, computer, and tablet	-		Not specfied/Unclear	,,	Patient insurance plan. HIPAA compliant. Provision of technology &/or Wi-Fi for some.	Autism spectrum disorders	Telehealt h model prior to direct treatment telehealth model
27	2021 <sup>27</sup>	Adult transitions program tele behavioural therapy and support	Adult Transitions Program (ATP). Tele-therapy programme: video teleconferencing individual and group-based interventions for targeted symptom management, recovery support, discussion, therapy/ behavioural interventions.	Smartphone, laptop, or computer, videoconferencing	In-person session when required	Remote unless in- person required	Zoom	HIPAA-approved encrypted software	HIPAA compliant. Other details unclear	Transdiagnost ic psychiatric conditions	None
28	2020 <sup>28</sup>	24/7 National Helpline for psychosocial support and mental health services	24/7 National Helpline for Psychosocial Support and Mental Health Services. Crisis helpline for psychosocial support. IVRS telephone call with professional support, call forwarding, follow-up. Linkage with network of local resources and professionals as needed. they need.	Telephone		Remote	IVRS phone call	Unclear	Free	Mental health	None
29	29	Cognitive-behavioral therapy for suicide prevention (BCBT-SP) Clinical video telehealth (CVT)	Clinical video telehealth (CVT) for cognitive- behavioral therapy for suicide prevention (BCBT- SP). Video/ phone sessions: targeted behavioural intervention, maintenance.	Video/ phone	-		Clinical video telehealth	Unclear	Unclear	Mental health	None

30	Sennott20 20 <sup>30</sup>	Telehealth outreach well- being support	Tele-outreach to supplement care. Telephonic needs assessment, scheduling, referrals, resources.	Telephone		Remote	Unclear	Unclear	No-cost services	Parkinsonism	None
31	Shah2021 <sup>3</sup>	Teleconsultations and management	Online Text-based intervention for identification and management (including contingency management), discussion.	Telephone, text	-		could be assessed by only one of the	Authorized access. International best ethics practices- compliant management of physical abuse complaints	Unclear	Attention deficit hyperactivity disorder (ADHD)	None
32	Sharma20 20 <sup>32</sup>	Tele-mental health learning services	Real-time interactive videoconferencing. Online program for clinic-to-clinic and at home services. Didactic self-administered modules, post-test on the. Clinic-to-clinic observation of TMH session.	Phone	-		Direct-to- consumer (DTC) platforms, hospital's learning center	Unclear	Unclear	Child psychiatry	None
33	Sun2021 <sup>33</sup>	Mindfulness for growth and resilience mindfulness-based learning mHealth	Mindfulness-based mHealth "Mindfulness for Growth and Resilience". Videoconferencing experiential & group meetings, didactic learning videos, audio recordings, journaling option. Tailored text responses. Asynchronous group communication and discussion (messaging-based group).	Text, picture, audio- based messages			Zoom, WeChat- based mini- program	Unclear	Unclear	Mental health	Social support- based mhealth Zoom and WeChat
34	Tunuguntla 2021 <sup>34</sup>	Yoga of Immortals (YOI) therapy	Yoga of Immortals (YOI) intervention:	Mobile	-		Yoga of Immortals (YOI) app	Unclear	Unclear	Insomnia	None

			video and audio sessions (including yoga, exercises, sound therapy, meditation)								
35	Vukc* evic* Markovic2 020 <sup>35</sup>	Online expressive writing intervention	Expressive writing intervention sessions	Email	-	Remote	Online platform unclear	Password-protected data	Free support & materials	Mental health	Treatment as usual. Informal support through families, friends and networks
36	Weintraub 2021 <sup>36</sup>	Caroline County TeleMedicine mobile treatment unit (TM-MTU) initiative	Caroline County TM mobile treatment unit (TM- MTU) initiative patient- centered recovery support services. Integrated telemedicine (videoconferencing) & mobile services (remote buprenorphine prescription) Doctor-on-a-screen encounters conducted in treatment facilities in rural communities.  Screening, individual counselling, scheduling, follow-up. Point-to-point interactive video conferencing sessions. electronic prescription to a local pharmacy post-TM, self-pick up of medications.	Videoconference	Assessment and point-of- care test before appointment scheduling		Video conferencing. Epic Systems Corp (EPIC) and PatTrac databases. Modified recreational vehicle, backup power supply		HIPAA compliant. Fully covered by Medicare, Medicaid, private insurance schemes	Opioid use disorder	None
37	02137	Emergency department (ED) Call back Harm reduction services and addiction treatment	Emergency department (ED) Call back pilot project: Telephone calls, offered naloxone, harm reduction resources, peer recovery program, treatment	Telephone, text, mail, email	Home delivery of naloxone		No online platform	Unclear	Unclear	Opioid overdose	None

			referrals, service availability update								
38		Virtual Telepsychiatry Clinic consultations	Virtual Telepsychiatry Clinic. Initial telephone consultation. Phone calls and voice mails intimation. Videoconferencing for appointment.	Phone calls and voice mails	-	Remote	Epic's MyChart, Zoom	Unclear	Financially viable clinic	Mental health	None
Cardio	ovascular dis	ease									
1	021 <sup>39</sup>	Telemedicine consultations and management	Teleconsultations to assess care type, scheduling, prescription and drug management, home-based phlebotomy.		Urgent/ emergent in- patient elective diagnostic and therapeutic procedures. Stress tests cancelled due to COVID- 19 constraints		Probably no online platforms	Unclear	Free (covered by National health service budget)	Chronic heart failure	Standard of care
2		The Hellenic Educational Self-care and Support Heart Failure app [ThessHF app]	The Hellenic Educational Self-care and Support Heart Failure app [ThessHF app]. Patient-oriented mHealth app. App-directed alerts to contact providers, measurement, symptom tracking, measurement, education, reminder, gamification, visualization, in diabetics.		Perusal of app history patient visits to hospital	Both	ThessHF app	No user data transmitted (medico- legal challenges). No user data prior to app download	Unclear	Heart failure	None
3		Telerehabilitation and support	Telerehabilitation- home- based exercise, teleconsultation, telemonitoring training, education and motivation. Participant profile creation. Remote coach. Scheduled telephone feedback.		In-person walking tests evaluation, education at hospital. Lent web platform -compatible devices. Optional contact with physiotherapist at centre	Both	PolarFlow web platform	Shared password and access only to authorized persons; secure external hard drive.	Unclear	Coronary heart disease	None
4	21 <sup>42</sup>	Healing Hearts Together (HHT) Couple telepsychology	(HHT) couples-based	Email, camera & mic, smartphone/ laptop/ tablet/ chromebook/ desktop	In-person visits for assessments		Web-Based HHT Intervention and Research Protocol. Web-	Secure delivery of intervention. Hospital-approved	Unclear	Cardiovascula r disease	Regular care

			videoconferencing. Electronic materials/resources, Didactic presentations, videos, group and couple discussions, Feedback, contingency planning, conflict resolution, exercises (homework), email, camera & mic, smartphone/ laptop/ tablet/ chromebook/ desktop.				collaborative	secure platform linked with hospital's secure EMR software.			
5	Li2020 <sup>43</sup>	Telemedicine consultation	Telemedicine consultation	Telephone call, video camera/video link or smart phone	-	Remote	Online platform unclear			Vascular patients	None
6		Telehealth consultations & support	Telehealth programme. Self-monitoring using device, nurse practitioner (NP)-led telephone support, consultation, guidance, reviews, follow ups.	Text, phone call	In-person option available. Provision of devices for self-monitoring.		Zoom, email, new electronic ePrescription and eLabform process		Funded devices for self- monitoring	Heart failure	None
7	21 <sup>45</sup>	Virtual Atrial Fibrillation (AF) self-management program.		smartphone, tablet, or computer.				secure video- conferencing platform	Unclear	Atrial fibrillation	None (Pre-post)
8	erg2021 <sup>46</sup>	Tele psychological consultations, counselling and support	Interactive live group session: education, dietary advice, option for website	telephonic/ Jitsi, podcasts	-		Rehabilitation centre website, Facebook, LinkedIn, Jitsi		Payment for service	Cardiac	None

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			journaling, telephonic/ Jitsi discussions, Psychological counselling: Interactive live group sessions & individual consultations, live group exercises with specialist, telephonic advice.								
9	Wali2021 <sup>47</sup>	Medly program Telemonitoring	Videoconferencing visits/ telephone calls. Medly program, smartphone, self- monitoring and -report with devices, self-report questions.	Videoconferencing visits/ telephone calls, smartphone	-	Remote	Medly app	Unclear		Health failure patients	None
10	$0^{48}$	Heart disease reversal program TeleManagement	Heart Disease Reversal Program- interdisciplinary lifestyle interventions. videoconferencing of consultation-referral within the EHR, group appointments, electronic sharing of materials and messaging of logs. Telephone screening. Education and guidance, stress management. Option of indoor home exercise (poor air quality due to California fires). consult/referral process via videoconferencing. group sessions, diet/ nutrition component, physical activity, stress management training, and medication management.	Videoconferencing			VA COVID Coach app, Cisco Webex when VA Video Connect faced tech barriers	Secure messaging	Unclear	Heart disease	None
11	9	Part of ReACT program Telemanagement & support	Part of ReACT program. Virtual multidisciplinary clinic for management. Online or telephone. Scheduling, remote interrogation, review of data including	Telephone	-		Zoom interface integrated with Epic EMR, WeChat-based mini-program	Unclear		Health failure patients with CRT devices	In-person visit group during the period of interventi on

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			medications, management. No physical exams/ tests								
Canc	er					'					
1		Tele-multidisciplinary clinic (MDC)	Tele-multidisciplinary clinic (MDC): Single supervised guided telehealth encounter at the clinic. Patient presence at clinic (to remove technological barriers) required for assisted remote encounter with multiple specialists.	Phone, desktop computer	Initial staging workup	In-person		Institutional platform with increased cybersecurity. Secure link.		Colon, rectal, anal, recurrent uroepithelial carcinoma cancers	None
2	51	Virtual care management system (VCMS) using Agile service design process	Virtual Care Management System (VCMS) using Agile service design process. Telephone or video appointment. Scheduling, documentation, rapid contextualization, order communication. Email, phone call, mail.	Email, phone call, mail, and video	Based on triage: in-person visit, reschedule or delay the visit.			Secure remote access (Citrix Receiver, Citrix Systems Inc, US)	Unclear	Cancer	None
3	52	"Virtual-Hybrid Approach to clinic" Telemedicine services		Smartphones, iPads, tablets, and video call	Physical patient visits eventually integrated		Telemedicine platforms integrated with Epic and /or using Doximity video call function	Unclear		Breast, lung, and hematologic cancers	None

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4	Teleconsultation and medication management		Mobile, mobile phone camera (on demand) Android and iOS	Home delivery of medications		cancer center (SYSUCC) app for therapeutic	Unique staff ID & password, verification by automated drug rationality review system integrated into cloud-based HIS	Registration fee for Cloud SYSUCC increased from US \$7 to US \$70/ user during intervention	Cancer	None
5	Virtual mind-body program	Virtual mind-body program with live integrative medicine via videoconferencing. Registration, group therapy sessions (e.g., fitness, yoga, tai chi, dance & music therapy, meditation), feedback, discussion	Videoconferencing	-	Remote	Zoom, Patient messaging portal	Unclear	Unclear	Cancer	None
6	Tele-neuropsychology continuity of care		Telephone, computer, tablet, combination, and video conferencing	Option for in-person visits	Remote with option of in- person		Encrypted technology; stand-alone platform transitioned to software embedded in EMR portal; private and quiet space, patient destruction of written/or drawn items at session end.	Unclear	Cancer	In-person visits
7	STAYFit exercise management intervention		Computer, tablet, smartphone	-	Remote	Zoom	Unclear		Adult cancer survivors	Three groups (Hatha Yoga, Stretching -toning) with in- person sessions

8	1 <sup>57</sup>	Teleconsultation/ telemedicine based on clean and pandemic hospital	Telemedicine management based on telephonic assessment of COVID-19 risk-consultation, scheduling, referral. Based on 2 pandemic hospitals and 1 clean hospital separate teleconsultation/ telemedicine based on those receiving CT (clean hospital) and those not receiving CT (pandemic hospital).	Unclear	to pandemic hospital	Remote, both for certain patients	Unclear	Unclear	Unclear	Cancer	Admissio n data of previous year of pandemic
9	Knoerl202 1 <sup>58</sup>	Tele-yoga intervention	Virtual yoga intervention. Individualized, expert and self-guided (videos). discussions.	Telephonic, email, videos	Received yoga balls and blocks	Both		,	when attending yoga sessions at center	Breast, gastrointestin al, gynecological cancer survivors with chronic chemotherapy -induced peripheral neuropathy pain	Regular care
10	Lonergan2 020 <sup>59</sup>	Tele-clinic visits	Televisits via video conferencing platform with a pre-existing workflow.	Phone call, video conferencing	In-person visits for specific, urgent cases.	Both	Zoom	HIPAA compliant. Login required	HIPAA compliant. Other details unclear	Cancer	Pre- COVID video consultati on
11		Virtual pharmacy care model		Telephone, phone or laptop with video capabilities.	In-person interaction if not suitable for virtual interaction	Remote unless in- person required	Microsoft Visio software for workflow	Unclear	Unclear	Cancer	None
12	Myers Virtue2021	Tele-psychology		Telephone, phone or laptop with video capabilities		Remote with option of in- person	Unclear	Unclear	Unclear	Cancer	Referral data from the previous year of pandemic

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13		Remote patient symptom management	Remote patient symptom management via an ePRO digital remote monitoring tool. self-reported, real-time notification and triage, nurse tracking and follow up.	Email, smartphone, e- mail, text		Remote with option of in- person	Health Tracker, an ePRO platform, care coordination dashboard	Unclear	Unclear	Cancer	None
		Mayo Clinic COVID-19 RPM program	(RPM) program: Passively data collection, patient alerts, self-measurement,	Patient given cellular- enabled tablet preloaded with vended clinical RPM software, preconnected, Bluetooth-enabled devices	-	Remote	Tablet preloaded with vended clinical RPM software. integrated with the EHR (Epic). Resideo Life Care Solutions, WI	Unclear	Patient given cellular-enabled tablet preloaded with vended clinical RPM software, preconnecte d, Bluetoothenabled devices.	Cancer	Outpatien t data without RPM
15		Telehealth pre- and post- operative services	Virtual patient portal and telehealth services for pre- & post-operative consultation and patient evaluation.	Unclear	Same-day approach to breast reconstruction-novel same-day surgery protocol	Both	Virtual patient portal	Unclear	Unclear	Breast cancer	None
16	Steimer <sup>65</sup>	RPM program	RPM. Education, self- monitoring and entry, clinical recommendations, emergency calls.	Call	Patients provided devices, a configured Apple iPad to enter vital results. Option for in-person visit to emergency department	Both	dashboard for	Password-protected patient dashboard, secure portal	Established patients reimbursed by Centers for Medicare & Medicaid services	Cancer	None
17		Telemedicine visits & CPS intervention	Telemedicine visits. Virtual desktop access & other technology. CPS interventions: drug acquisition, medication optimization, drug information and safety, patient education	Virtual desktop access and other technology. Telephone	Certain medications shipped to patient directly	Remote	NS	Unclear	Unclear	Cancer	None
Diabet	tes			<u> </u>			<b>'</b>	·	·	<u> </u>	

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1	020 <sup>67</sup>	Telemedicine consultation and medication management	tracking and coordination	Video/ audio calls over smartphones donated by telecom provider, landlines, remote clinics to patient door	In-person consultations at hospital. Remote clinic using hospital's home health care cars. Team downloads patients' data and adjusts settings.	Both	Upgraded EHR	Unclear	Smartphones donated by telecom provider, landlines,	Diabetes mellitus	None
2	1 <sup>68</sup>	Digital diabetes clinic using service design methods	service design methods. Remote consultations, scheduling, data upload and review, management,	Webcams with integrated microphones and speakers provided. Computer, tablets, smartphone cameras		Remote	[Jameda Gesellschaft mit beschränkter	Secure platform. Adapted to hospital's IT infrastructure and local data protection requirements		Pediatric diabetes mellitus	None
3	Fraticelli20 20 <sup>69</sup>	Web-based nutritional intervention	Web-based group interactions, feedback, one-to-one chat (when web platform not user friendly), self- measurement at home.	Unclear	In-person visits for outcome assessment	Both	Web-based platform	Access using personal credentials	reusable tools or material	Type 2 diabetes, impaired glucose regulation in overweight, obesity	In-person traditional face to face individual and group- based interventi on
4	Hanson20 20 <sup>70</sup>	Low carb program health app. Remote digital health intervention	and structured content.	Video conferencing sessions, telephonic, email, smartphone, print, videos, and	Offered initial in-person consultation. Physical "starter pack" for digitally excluded patient. Ongoing	Both	Low Carb Program App streamlined National health	Unclear	Unique code- enabled free app activation of		Data from group education al

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			program: education, strategies, visualization, self-monitoring, discussion board, searchable library, telephonic review, virtual meetups through coach- led video conferencing sessions, peer support networks, feedback. Self-monitoring data submission (via digital tools).)	podcasts. Telephone (esp. for digitally excluded patients	input & follow-up with hospital-based as part of usual care		service (NHS) approved medical device ("Software as a Medical Device"). Connection of their wearables to online platform		the app (downloaded from NHS App Library). No cost to patients		sessions between 2016 to 2019
5	Jiwani2020	Behavioral lifestyle intervention	Smartphone-based behavioral lifestyle intervention: Self-monitoring, goal setting, feedback, mindful eating, social support, rewards, problem-solving, relapse prevention, and handling holidays, support. Group sessions. Self-measurement and recording on Fitbit.	Fitbit, smartphone	In-person group sessions. Fitbit provided to all	Both	Webex, Fitbit app	Unclear	Unclear	Type 2 diabetes mellitus	None
6	Jones2020 <sup>72</sup>	Virtual co-management service Teleconsultations	Virtual co-management service. Automatic consults for COVID-19 patients. Telephonic patient/family interview. Electronic/telephone consultations, rounds.	Telephonic	-	Remote	Cisco Webex. Epic reports	Unclear	Unclear	Diabetes mellitus	Before implemen tation of DCT during May 2019 to January 2020
7	Leon- Vargas202 1 <sup>73</sup>	Remote diabetes management	Remote patient communication, device data review, visualization, information retrieval and transmission (via uploader using USB connection). Web, Mobile, and Uploader.	Web, mobile, and uploader. Smartphone (iOS or Android) and computer	In-person visits for screening and follow-up.	Remote		Random assignment of numeric username& password. Anonymised accounts.	cloud	Type 1 and Type 2 diabetes ellitus	None

8		Tele-monitoring for remote care continuity Remote glucose control system	Tele-monitoring for remote care continuity. Remote glucose control system (Flash Glucose control).	Phone, mail, email	-	Remote	LIBREVIEW° platform	Unclear	Unclear	Type 1 and type 2 diabetes mellitus	Diabetes patients on insulin but non- users of LIBREVIE W platform
9		Massive Open Online Course for self- management	MOOC for self-management of diabetes. Structured education with interactive content, discussion boards, goal setting, assessments, surveys, summary course emails. Facebook and Twitter livestream with professionals. Registration, progress tracking, personalized certificates. developed using LearnDash WordPress LMS plugin software, and in line with web content accessibility guidelines (WCAG level AA).	Unclear	-		MyWay Digital Health Ltd (MWDH) portal, Facebook, Twitter, GravityForms	Site's privacy policy	Free, open access	Type 2 diabetes mellitus	None
10	Zeller Jr.2021 <sup>76</sup>	Diabetes Reporting Telemedicine support	Telemedicine. Diabetes Reporting. Initial online visit with specialist. Online conferences on support (psychological, technological). Group sessions.	Unclear	-		Diabetes Reporting (peer- reviewed software)	Unclear	Unclear	Type 1 diabetes mellitus	Type 1 diabetes patients from Exchange registry in the 3 months period prior to the survey
Chron	nic respirato	ry disease									
1	021 <sup>77</sup>	Home-based virtual pulmonary rehabilitation program with RPM	Home-based virtual multidisciplinary pulmonary rehabilitation program.		Participants provided with monitoring	Both	Zoom, optional mobile app, email	Anonymized data (random six-digit identifier) authorized	Unclear	Chronic lung disease	None

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			RPM system integrated with video-conferencing, connected smart devices. Real-time access to/monitoring of health data and adherence. Safety checklist. Mobile app for motivation and reminder.		devices prior to program commencement		web-dashboard, mobile app	access to patient data; no recording of session for preserving privacy. Encrypted retained data.			
2	Philip2020 <sup>7</sup>	Singing for lung health (SLH) intervention	Singing for lung health (SLH): online singing exercise sessions	Compact disc also given	-	Remote	Zoom	Unclear		Chronic obstructive pulmonary disease (COPD)	Regular services
Chron	nic liver dise	ease									
1	Motz2021 <sup>79</sup>	Telehealth exercise management	Telehealth exercise training programs. Outdoor/ at-home training, real-time direct supervision and feedback, fitness activity trackers with heart rate monitors, dietary counselling. Mobile device.	Mobile device	-		Audio-visual telehealth platform	Unclear		Non-alcoholic fatty liver disease	None
Multip	ole NCD don	nains									
1	Kesavadev 2021 <sup>80</sup>	Telemedicine for patient management/ in-patient level care	Telemedicine for patient management. Group educational webinars/ sessions. Virtual COVID in-patient (VCIP) care. Virtual at-home inpatient-level care. Targeted audiovideo consultations, assessment, review, therapy, follow-up, home self-monitoring, training, psychotherapeutic counselling, referrals.		Home delivery of devices, medications. Home laboratory tests.	Remote	WhatsApp (group with care team), Zoom	Unclear	Unclear	Multiple NCDs/ comorbidities	None
2	021 <sup>81</sup>	Neuro-telemedicine services, including tele- visits and tele- neurorehabilitation	multidimensional, neuro- telemedicine services,	Video conferencing platforms, voice or video-call, resources via email. Computer with AV equipment.	-		Teams; Microsoft 365. online dyslexia platform (RIDInet,	protection regulations	No regulation or pricing for certain adult patients	neurological	None

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			tele-neurorehabilitation using video conferencing platforms continuity of care. consultation, rehab, monitoring, coaching, support, remote assessment, follow up, specialized management. voice or video-call, resources via email. computer with AV equipment.	2 monitors (physicians, whenever possible)- 1 -to see patient, 2nd - electronic clinical record prep, & to see documents, history etc.			Trainer app). Not used insecure platforms despite requests- emails, phone calls, WhatsApp, text messages	platform. Password- protected documents to certain patients (password conveyed verbally during televisit). Sharepoint system (Microsoft 365) with regulated access- privacy and data protection			
3	Songserm pong2021 <sup>8</sup> 2	Teleconsultations	Telemedicine. NCD clinic text-messaging accounts. 24/7 online real-time/ asynchronous teleconsultations. Facebook page for patient inquiries & follow-up.	Text	Option to: -Medication pick-up by patient/ relative at district hospital and HPH -Drive-through facility at district hospital providing prescribed medications from a window - Home delivery of devices, medicines - Home monitoring by community health volunteers (CHVs)	Remote with option of in- person	LINE, Facebook			Hypertension and diabetes	None
4	Wu2020 <sup>83</sup>	Telehealth for palliative care family conferences with shared decision making	Telehealth-based family conferences, multidisciplinary team. Shared decision making & the value, acknowledge, listen, understand, and elicit (VALUE) integration. Team talk, option talk (treatment discussion, symptom management, discharge planning), decision talk (advanced care planning), evaluation.	Smartphone		Remote	Video software	Unclear	Unclear	Cancer and stroke	None

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