## A Summary of Research Studies Included in the Review

Author (Year) Country	Sample Size	Age Range (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)	QualSyst Score (%)
Intervention Name		Mean/ Median Age (years)				
Randomised Co	1		T	T		Laa
Sabel et al., 2016 Not Reported	N =13	7-17 Mean age: 12.5±2.9	Physical Activity	Nintendo Wii	Physical Activity Levels Physical Functioning	96
Not Reported						
Mendoza et al., 2017 USA Not Reported	N =59	14-18 Mean age: 16.6±1.5	Physical Activity	Fitbit Flex Facebook Support Group	Feasibility Physical Activity Quality of Life Motivation Facebook Engagement	62
Kunin-Batson et al., 2016 USA Not Reported	N =52	15-28 Mean age: 21.3±3.9	Cancer Knowledge and Understanding	Website e-Journal Messaging System	Cancer Knowledge  Anxiety  Multidimensional Health Locus of Control	65
Jones et al., 2010 USA Conquering Cancer Network	N =65 I =35 C =30	12-18  Mean age: 14.8±1.96	Education	CD-ROM	Frequency and Duration of Use  Multidimensional Health Locus of Control  Quality of Life  Self-Efficacy  Avoidance  Coping Strategies  Approach Help  Cancer Knowledge	69

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Author (Year)  Country  Intervention Name	Sample Size	Age Range (years) Mean/ Median Age (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)	QualSyst Score (%)
Akard et al., 2015 Not Reported Not Reported	N =28	7-17 Mean age: Parents =36 Children =11	Symptom Management Quality of Life	Digital Story Telling	PedsQL V4.0	81
Beale et al., 2007; Kato et al., 2008 USA, Canada, Australia Re-Mission	N =375 I =197 C =178	13-29 Mean age: I =15.79 C =16.06	Cancer Knowledge Adherence to Treatment	Video Game (Re-Mission)	Treatment Adherence Self-Efficacy Cancer Knowledge Perceived Stress Health Locus Control Quality of Life FACT-G	81, 100
Burns et al., 2009 USA SMART Study	N =12	11-24 Mean age: 17.5	Building Resilience	Therapeutic Music Video	Feasibility Symptom Experience Symptom Related Risk Individual Risk Individual Protective Resilience Quality of Life	73
Emmons et al., 2013 USA, Canada	N =374 I =132 C =242	18-55 Mean age: 32±7.9	Smoking Cessation	Website	Smoking Cessation  Quit Attempts	92

Author (Year)	Sample Size	Age Range (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)	QualSyst Score (%)
Country		Moor /				
Intervention Name		Mean/ Median Age (years)				
PFH-2					Readiness to	
11112					Change	
Huang et al., 2014	N =38	10-16	Obesity Treatment	Website	Weight	79
USA		Median age: 13		SMS	BMI-Z	
Fit4Life					Physical Activity	
rit4Lile					Diet	
					Psychological Behaviours	
Rabin et al.,	N =18	18-39	Physical	Website	Feasibility and	46
2011		Mean age:	Activity		Acceptability	
USA		32.17			Physical Activity	
Not Reported					POMS	
					Fatigue	
Valle et al.,	N =86	21-29	Physical	Facebook	Physical Activity	68,58
2013; Valle et al., 2015		Mean age: 31.7	Activity		вмі	
USA		31.7			FACT-G	
Not Reported						
Non-Randomis	ed Controlle	d Trials				
Wint et al., 2002	N =30	10-19	Pain	VR Glasses	Pain	71
LICA	I =17	Mean age:			VR Evaluation	
USA	C =13	13.6				
VR Glasses						
Single-Group R	epeated Me	asures				
Seitz et al.,	N =20	20-36	PTSD	Website	Intervention	85, 85
2014a; Seitz et al., 2014b		Mean age:			Satisfaction	
Not Reported		27.3±4.8			PTSF Symptoms	
Onco-STEP					Anxiety	
					Depression	

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Hardy et al., 2011 USA Captain's Log	N =9	10-17 Mean age: 13.3±2.4	Memory Attention Behavioural Function	Game	Fear Feasibility Working Memory Index Digit Span Letter Numbering Sequencing Inattention Index	50
Gilliam et al., 2011 USA Not Reported	N =12	6-18 Mean age: 12.75	Physical Function Quality of Life	Website	Adherence Endurance Strength Functional Mobility Quality of Life	73
Berg et al., 2014 USA Not Reported	N =24	18-34 Mean age: 23.38	Health Promotion Behaviours	e-Mail	Intervention Acceptability and Feasibility	77
Baggott et al., 2012 USA mOST	N =11	13-21 Mean age: 18.2±2.9	Symptom Management	Арр	Feasibility Adherence	94
Rodgers et al., 2013; Rodgers et al., 2014 USA EAT!	N =16	11-18	Symptom Management	Арр	Memorial Symptom Assessment Scale Albumin Prealbumin	43

Author (Year)  Country  Intervention Name  Jibb et al., 2017; Stinson	Sample Size	Age Range (years) Mean/ Median Age (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)  Acceptability and Usability Competency Feasibility	QualSyst Score (%)
et al., 2013 Canada Pain Squad+		Mean age: 14.2±1.7			Pain	
Cross-Sectiona		up Studies				
Hooke et al., 2016 USA FitBit	N =17	8-15 Mean age: 8.69	Physical Activity Fatigue	FitBitR	Validity and Reliability Responsiveness	68
Stinsen et al., 2015b Canada PainSquad	Study 1 N =92 Study 2 N =14	8-18  Mean age:  Study 1 13.1±2.9  Study 2 14.8±2.8	Pain	Арр	Acceptability  Compliance	100
Lai et al., 2015 USA SyMon-SAYS	N =57	7-21 Mean age: 11.9	Fatigue	Website	Feasibility Acceptability	80
Kniijnenburg et al., 2013 Netherlands DCOG	N =98	17-55 Mean age: 31	Medical Decision Making	Website	Usability Website Content	60
Kesler et al., 2011 USA	N =25	7-19 Mean age: 12.6	Cognitive Function	Computer Program	Compliance Cognitive Function	77

Author (Year)	Sample Size	Age Range (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)	QualSyst Score (%)
Country		Mean/				
Intervention Name		Median Age (years)				
No Reported						
Wiklander et al., 2017	N =23	18-43	Sexual Problems	Website	Demand	80
Sweden		Mean age: 30	Fertility		Acceptability	
Fex-Can					Preliminary Efficacy	
					Functionality	
Blaauwbroek et al., 2012	N =73	19-56	Information Provision	Website	Website Evaluation	64
Netherlands		Mean age: 38				
SCP						
Cantrell and Conte, 2008	N =6	21-39	Psychosocial Function	Website	Intervention Evaluation	35
USA		Mean age: Not Reported				
HIP						70
Macpherson et al., 2014	N =72	13-29 Median	Symptom Management	App	Feasibility and Acceptability	70
USA		age:				
C-SCAT		Adolescent 15				
		Adults 22				
McLaughlin et al., 2011	N =14	18-29	Social Support	Арр	Social Support	85
USA					Bridging Social Capitol	
LIFE Community						
Suzuki and Beale, 2006	N =21	13-22	Purpose of Website use	Website	Cancer-Related Information	50
USA		Mean age: 19.3±2.4			Dissemination	

Author (Year) Country	Sample Size	Age Range (years)	Key Target Behaviour	Intervention Platform	Outcome Measure(s)	QualSyst Score (%)
Intervention Name		Mean/ Median Age (years)				
					Interpersonal Connection	
Wu et al., 2011	N =40	13-20	Monitoring Symptoms	Website	Completion Rates	73
USA						
ESRA-CAF						
Platform Deve	lopment					
Phelps et al., 2016 Not Reported	N =12	15-23	VR Counselling System Development	VR	System Development System Pilot	55
C:EVOLVE						
Winterling et al., 2017	N =13	20-41	Website Development	Website	Co-Design Success	60
Sweden						
Fex-Can						
Qualitative Stu	dies					
Donovan et al., 2014 USA	N = Not Reported	15-39	Social Support	Website	Types of Social Support	70
Not Reported						
Gonzalez- Morkos et al., 2014	N =6	15-18	Social Therapy	Live Webcasting	User Experience and Satisfaction	70
USA						
TI Webcast						
Griffiths et al., 2015	N =12	16-30 Mean	Website Development and Usage	Website	Experience of Using Realshare	45
Not Reported Realshare		21.08±4.15	75.05		Acceptability	

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Stinson et al., 2015a Canada Teens Taking Charge: Managing Cancer Online	N =22	12-18 Mean age: 15.2±1.8	Self- management	Website	User Satisfaction  Design  Content  Functionality and Features  Sociability  Desire	75
Mixed-Method	s Studies					
Ameringer et al., 2015 Not Reported mOST	N =72	13-29 Mean age: 18.5	Symptom Management	Арр	Symptoms Symptom Clusters	95

Note. SD = Standard Deviation, I = Intervention Group, C = Control Group, BMI –
Body Mass Index, VR = Virtual Reality, CD-ROM = Compact Disc Read-Only
Memory, PTSD = Post-Traumatic Stress Disorder