

Supplementary Figure 1. PRISMA flow diagram

Supplementary Ta	ble 1. Descriptions of cell and gene therapies
Gene therapy medicines	These therapies involve the replacement of damaged genes, introduction of new genes or the inactivation of mutated genes. ¹ A vector, usually a modified virus which has lost its pathogenic ability, is used as a vehicle to insert a new gene into the target cells. Viruses are often used because of their ability to incorporate foreign genetic material with the host cell genome. Once inside the cells, the gene has to be 'switched on' before it functions and leads to the production of the required therapeutic protein which results in the treatment of the disease (See Figure 1). In some diseases such as sickle cell disease, it is crucial that the old stem cells with the defective gene are eliminated prior to the administration of genetically modified autologous stem cells.
Somatic-cell therapy medicines	These contain modified cells or tissues with altered biological characteristics, or cells or tissues not intended to be used for the same essential functions in the body. ² These cells may be donated by another individual (allogeneic), or derived from the patient's own tissue (autologous) or from another species (xenogeneic). Autologous somatic cell therapy has the lowest possibility of triggering immune reactions which may be life threatening.
Tissue- engineered medicines	These contain modified cells or tissues that can be used to repair, regenerate or replace human tissue. ² The technologies combine human tissue or cells (viable or non-viable, allogeneic or autologous) with synthetic biomaterials and may provide benefits to patients in terms of longevity, biocompatibility, and performance. ³ The most widespread existing application is skin systems for treatment of conditions such as chronic wound healing in diabetic patients with ulcers; burns; and cancer. ³

Supp	lementary Table 2. Medline search
Cell a	ind gene therapy
1	exp "Cell- and Tissue-Based Therapy"/
2	exp Genetic Therapy/
3	Regenerative Medicine/
4	Tissue Engineering/
5	exp Gene Transfer Techniques/
6	exp stem cells/
7	exp Multipotent Stem Cells/
8	Induced Pluripotent Stem Cells/
9	exp Stromal Cells/
10	stem cell research/
11	(advanced-therapy medicinal products or advanced therapy medicinal products or
	atmp\$).tw.
12	regenerative medicine\$.tw.
13	advanced therap\$.tw.
14	(gene-therapy medicinal products or gene therapy medicinal products or
	(gene anere), meaning present of gene anere), meaning present of
15	(cell-therapy medicinal products or cell therapy medicinal products or ctmps).tw.
16	(tissue engineered product\$ or tissue-engineered product\$ or teps).tw.
17	(regenerative medicine advanced therap\$ or rmat\$).tw.
18	"human cells, tissues, and cellular and tissue-based products (HCT/Ps)", tw.
19	"human cells, tissues, and cellular and tissue-based product (HCT/P)", tw.
20	regenerative therap\$.tw.
21	("cell and gene therapy product" or "cell and gene therapy products" or cgtp or
	catos).tw.
22	or/1-21
23	(Tisagenlecleuce) or Kymriah or cart 19 or cart19 or "ctl 019" or ctl019) tw
24	(Axicabtagene ciloleucel or Yescarta or kte c19 or ktec19) tw
25	(Voretigene neparvovec-rzyl or Voretigene neparvovec?rzyl or Luxturna) tw
26	(Talimogene laherparepyec or Imlygic or oncovex or t vec).tw.
27	(Strimvelis or ask 2696273 or ask2696273).tw.
28	Holoclar tw
29	MACLtw.
30	(Provenge or sinuleucel t or apc 8015 or apc8015) tw
31	(Glybera or alipogene tiparyoyec or "amt 011" or amt011 or aav1 lpls447x) tw
32	
33	Spherox tw
34	or/23-33
35	22 or 34
Patie	nt, carer and public filter (adapted SIGN Patient Issues filter)
36	(patient\$ or consumer\$ or public) adi2 (decisi\$ or decid\$)) ti ab
37	"Patient Acceptance of Health Care"/
38	exp attitude to health/
30	Patient Preference/
40	"natient satisfaction" ti
41	exp health education/
42	natient education as topic/
42	health knowledge attitudes practice/
44	linformed choice" ti ab
45	"shared decision making" ti ab
46	("focus aroun" adi3 (natients or narents or famils or shouses or public)) ti ab
47	Consumer Advocacy/
48	natient advocacy/
40	evp professional-patient relations/
43	

50	((patient\$ or consumer\$ or parent\$ or famil\$ or spouse\$ or carer\$ or public) adj
	(attitude\$ or involvement or desir\$ or perspective\$ or activation or view\$ or
	preference\$ or experience\$ or knowledge\$ or understand\$ or awareness\$)).ti,ab.
51	exp decision making/
52	exp communication/
53	vignette*.ti,ab.
54	"focus group\$".ti,ab.
55	focus groups/
56	exp empirical research/
57	narration/
58	(meta-ethnography or metaethnography).ti,ab.
59	grounded theor*.ti,ab.
60	hermeneutic.ti,ab.
61	(inductive adj2 (analys* or grounded or reasoning)).ti,ab.
62	(ethnograph* or ethnological or ethnomethodol* or ethnonursing research).ti,ab.
63	qualitative.ti.
64	exp qualitative research/
65	(qualitative adj (research or stud* or data)).ab.
66	exp Community Participation/
67	Public Opinion/
68	or/36-67
69	35 and 68
70	limit 69 to yr="2009 -Current"

Supplementary Table 3. Data extraction form							
Study title							
Authors							
Year of Publication							
Study type							
Aim of study							
Time period/duration of study							
Country of study							
Source of funding							
Participant group studied							
Number of participants							
Age range							
Gender							
Socioeconomic Status							
Educational level							
Current health status							
Type of therapy being studied							
Standard care							
Results (levels of knowledge and							
awareness; views; opinions;							
expectations; experiences; factors							
influencing any of the foregoing)							
Author conclusions							
Study quality							
Any other observations							

Supplementary Table 4. Characteristics and critical appraisal of included studies									
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
Aked et al. (2017) ⁴	Sweden	Stem cell	Patients	Ischaemic stroke	84 (54 males, 30 females)	20-75; median 68	Quantitative questionnaire	 Response rate 78% Sample size <100 91% had no/slight disability (Modified rankin scale) (potential recruitment bias) Detailed information on socioeconomic status Funding sources reported (non-pharmaceutical, charities). Authors stated that there were no competing financial interests. 	
Allum et al. (2017) ⁵	Europe; USA; Canada	Stem cell	Public	Not applicable	25,000 Europeans, 2,000 Canadians, 1,200 US citizens	<u>></u> 18	Re-analysis of existing survey data	 Sample size >100 Detailed information about the surveys Detailed information on data analysis Funding sources reported (non-pharmaceutical). Funder was stated to have no role in the project. Authors declared no competing interests. 	
Benjaminy et al. (2014) ⁶	Canada	Gene therapy	Patients; clinicians; patient advocates	Choroideremia	41 (20 male patients, 15 clinicians, 6 patient advocates)	Patients >18	Semi-structured interviews	 Response rate unreported Some patients were recruited via patient advocacy groups Limited information on participant socioeconomic status Detailed information on data collection and analysis Unclear whether saturation was achieved Member checking of data analysis was conducted Funding sources reported (non- pharmaceutical, charities). Authors declared no competing interests. 	
Blendon et al. (2016) ⁷	US	Gene therapy	Public	Not applicable	Not available	Not available	Review of public opinion polls	 Data from 17 polls was reviewed Demographic information not available due to study method Limited information on data collection and analysis provided 	

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								 Funding source reported (non- pharmaceutical). Authors declared no competing interests. 	
Bubela et al. (2012) ⁸	Canada	Stem cell	Media (newspaper articles)	Not applicable	13,249 newspaper articles, 3,404 clinical trials		Word frequency analysis	 Extensive search of databases Detailed information on data collection and analysis Funding sources reported (non- pharmaceutical). Authors declared no competing interests. 	
Chung et al. (2014) ⁹	Korea	Stem cells	Patients; carers	Parkinson's disease	963 patients, 267 carers 580 male patients, 383 female patients, 143 male carers, 124 female carers	Mean: 70 patients, 65 carers	Questionnaire	 Response rate unreported Sample size >100 Detailed demographic information provided Detailed information on data analysis Funding source unreported. Authors declared no competing interests. 	
Clover et al. (2012) ¹⁰	Ireland	Stem cell/tissue engineering	Patients	Burns	279 (142 males, 137 females) (139 plastic surgery patients and 140 nonplastic surgery patients)	18-89	Quantitative questionnaire	 Response rate 93% Sample size >100 Modified version of a previously validated questionnaire Ethnicity, educational and financial status unreported Funding source unreported. Authors declared no competing interests. 	
Cunningham (2018) ¹¹	UK	Stem cell	Patients; carers	Stroke	66 (31 male, 22 female stroke patients; 6 female, 7 male carers)	Patients: 40- 75; Carers: Unspecified	Focus group (conversation café)	 Response rate unreported Sample size appears to be adequate Ethnicity, educational and financial status unreported Funding source unclear ("sponsored by trial recruiters"). No statement on competing interest was provided. 	
Dasgupta et al. (2014) ¹²	USA	Stem cell	Patients	Not available	26 (10 males, 16 females)	20-81 (Mean 53.8)	Focus group	 Response rate unreported Sampling appears to be convenience rather than purposive 	

Supplementary Table 4. Characteristics and critical appraisal of included studies										
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal		
								 Information about health conditions not collected Unclear if saturation was achieved Detailed demographic information provided Funding source reported (non-pharmaceutical). No statement on competing interest was provided. 		
Eijkholt et al. (2012) ¹³	Canada	Stem cell	Friends and family; patients	Spinal cord injury	50 (9 family and friends; 41 HCPs)	Not reported	Focus groups and interviews	 Response rate unreported Small sample of family/friend Patients not included Very limited information on participant characteristics Details of the data analysis not provided Funding source reported (non-pharmaceutical). Authors declared no competing interests 		
Einsiedel et al. (2009) ¹⁴	Canada	Stem cell	Patients; public; caregivers	Not specified	76	Not reported	Focus groups	 Response rate unreported Detailed information on recruitment, data collection and analysis Limited information on demographics provided Unclear if data saturation was achieved Funding source reported (non- pharmaceutical). No statement on competing interests was provided. 		
Evans et al. (2011) ¹⁵	USA	Stem cell	Public	Not applicable	2,295 cases	Not reported	Quantitative questionnaire	 Response rate unreported No information on recruitment process Sample size >100 No information on participants' demographic characteristics Detailed information on data analysis Funding source unreported. Authors declared no competing interests. 		
Hodges et al. (2012) ¹⁶	Australia	Stem cell	Patients (pregnant women)	General and 15 specific disorders	150	18-40+ (Modal age 26-30)	Quantitative questionnaire	 Response rate 80% Questionnaire was initially piloted Sample size >100 		

Supplementary Table 4. Characteristics and critical appraisal of included studies									
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
								 Detailed information on demographics provided Most of the participants were well educated (potential selection bias) Funding source reported (non-pharmaceutical). No statement on competing interests was provided. 	
Horch et al. (2016) ¹⁷	Canada	Stem cell	Public (firefighters)	Not applicable (Discussed use for burns)	149 (144 males, 5 females)	24-63 (mean 41)	Mixed methods; quantitative online survey followed by a qualitative semi- structured interview	 Survey response rate 14% Sample size >100 Detailed information on demographics provided Funding sources reported (non-pharmaceutical). Funders' role not specified. No statement on competing interests was provided. 	
Hudson et al. (2011) ¹⁸	Europe	Gene therapy	Public	Not applicable	Approximately 25,000	Not reported	Quantitative survey	 Response rate unreported Sample size >100 No information on participants' demographic characteristics Limited information on data analysis Funding source unreported. No statement on competing interests was provided. 	
Jacob et al. (2015) ¹⁹	Canada; USA	Stem cell	Patients	Individuals with spinal cord injury (ISCIs)	18 ISCIs (15 males, 3 females)	20 – 76+	Qualitative interviews	 Response rate unreported Detailed information was provided on patient characteristics, recruitment, data collection and analysis Unclear if data saturation was achieved Funding source reported (non- pharmaceutical). Authors declared no competing interests. 	
Jannetta et al. (2010) ²⁰	UK	Gene therapy	Patients	Cystic fibrosis	12 (7 males, 5 females)	19-53	Qualitative interviews	 Response rate 29%* Detailed information was provided on methodological approach, recruitment, data collection and analysis Funding source unreported (PhD thesis) 	
Kim et al. (2013) ²¹	South	Stem cell	Patients	Ischaemic	250 (175	23-90 (Mean	Surveys and brief	 Survey response rate 80% 	

Supplementary Table 4. Characteristics and critical appraisal of included studies									
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
	Korea			stroke	males, 75 females)	63)	qualitative interviews	 Sample size >100 Detailed information on demographics provided Information was not provided on the aim and findings of the interviews Funding source reported (non-pharmaceutical). Authors declared no competing financial interests. 	
King et al. (2010) ²²	USA	Stem cell	Patient; Public; HCPs	HIV/AIDs	47 (16 religious leaders, 8 HCPs, 12 patients; 11 community workers) 23 males, 24 females	Mean range 39-52	Focus groups and surveys	 Response rate unreported Detailed information on recruitment, data collection and analysis Detailed information on demographics provided Unclear if data saturation was achieved Funding source reported (non- pharmaceutical). No statement on competing interests was provided. 	
King et al. (2018) ²³	Scotland	Stem cell	Patient; Public	Patients had conditions such as thalassaemia and myelodysplasia	15 interviewees, size of focus groups unreported	Unreported	Ethnographic study; 15 interviews and 12 focus groups	 Response rate unreported Very limited information on participant characteristics Detailed information on methodological approach Limited information on the qualitative analysis provided Funding source reported (non- pharmaceutical). No statement on competing interests was provided. 	
Nelissen et al. (2016) ²⁴	Belgium	Stem cell	Patients; public	Cancer	2008 (621 patients with cancer, 1387 non-diagnosed public). 602 males, 1406 females	16-88 (75% between 21 and 60)	Cross sectional survey	 Sample size >100 Detailed information on demographics provided Detailed information on the qualitative analysis provided Funding source reported (non-pharmaceutical). Authors declare no conflict of interest. 	
Nelles et al. (2015) ²⁵	Germany	Gene therapy	Patients	Genetic eye disease (RPE65	5 (1 male, 4 females)	19-28	Quantitative questionnaires and qualitative	 Very small sample size* Response rate 55.5% Ethnicity, educational and financial 	

Supplementary Table 4. Characteristics and critical appraisal of included studies									
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
				deficiency)			interviews	 status unreported* Limited information on the qualitative analysis conducted Funding source unreported. Authors declare no conflict of interest. 	
Nisbet et al. (2014) ²⁶	USA	Stem cell	Public	Not applicable	Not available	Not available	Review of opinion polls	 Data from a number of polls was reviewed Demographic information not available due to study method Limited information on data collection and analysis provided Funding source unreported. No statement on competing interests was provided. 	
Peay et al. (2018) ²⁷	USA	Gene therapy	Patients; carers	Duchenne Muscular Dystrophy	6 adult patients with DMD, 17 parents of individuals with DMD	Adult patients 21–26, individuals represented by parents 5– 32.	Qualitative interviews	 Recruitment through advocacy organisation Response rate unreported Small patient sample size* Limited information on patients' socio-economic status* Detailed information on data collection and analysis Patient advocacy charity and pharmaceutical funding stated. Funders were not involved in data collection and analysis but were involved in interpretation and generation of conclusions. Authors declared no conflicts of interest. 	
Rachul et al. (2015) ²⁸	USA; Canada	Stem cell	Public	Not applicable	Not available	Not available	Qualitative analysis of news media articles and readers' comments	 Although five sport websites and two newspaper websites were searched, study populations may not fully represent sampling population (potential selection bias) Demographic information not available due to study method Detailed information on data collection and analysis provided 	

Supplementary Table 4. Characteristics and critical appraisal of included studies									
Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
								 Funding source reported (non- pharmaceutical). Authors declare no conflict of interest. 	
Robillard et al. (2013) ²⁹	Canada	Gene therapy	Public	Not applicable	Not available	Not available	Content analysis of social media platform (Yahoo! Answers)	 Difficult ascertaining whether study population represents sampling population (potential selection bias) Demographic information not available due to study method Framing of questions might have been leading (potential response bias) Interactions from only one social media platform was analysed (potential selection bias) Detailed information on data collection and analysis provided Funding source reported (non-pharmaceutical). Authors declare no conflict of interest. 	
Robillard et al. (2014) ³⁰	USA; Canada	Gene therapy	Public	Not applicable	467 complete and valid responses out of 560. Females 56%	19-69 (56% were 19-29)	Online survey	 Surveys were validated Final percentage analysed 83% Methods used by the private company for recruitment unclear Detailed information was provided on data analysis Younger age groups overrepresented Funding source reported (non- pharmaceutical). Authors declare no conflict of interest. 	
Shineha et al. (2018) ³¹	Japan	Stem cell	Public; scientists	Not applicable	3275 valid responses (2,160 public; 1,115 scientists)	Not available	Quantitative questionnaire	 Response rate 22.1% for scientists. Rate for general public unreported. Limited participant demographic information Limited information on data analysis Funding source reported (non- pharmaceutical). Authors declare no conflict of interest. 	
Sipp D. (2017) ³²	USA	Stem cell	Public	Not applicable	400 responses randomly	Not available	Content analysis	 Difficult ascertaining whether study population represents sampling 	

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Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal	
					sampled from a set of 6962			 population (potential selection bias) Demographic information not available due to study method Framing of questions might have been leading (potential response bias) Limited information on data analysis Funding source reported (non- pharmaceutical). Authors declared no competing interests. 	
Stewart et al. (2015) ³³	UK	Stem cell	Patients	Plastic surgery	50 (15 males, 35 females)	22-88 (Mean age 45.4)	Qualitative interviews and questionnaire	 Response rate unreported Limited information about socio- economic status of participants Limited information on questionnaire development Limited information on data analysis Funding and conflict of interest were stated as 'none'. 	
Strong H et al. (2017) ³⁴	USA	Gene therapy	Patients	Sickle cell	42 (20 males, 22 females)	18-58 (mean 27)	Focus groups	 Response rate 54% Detailed information on demographics provided Detailed information on data collection and analysis provided Funding sources reported (non-pharmaceutical). Funders not involved in the project. Authors declared no competing interests. 	
Tanner et al. (2017) ³⁵	Australia	Stem cell	Patients; carers; clinicians; patient advocates	Up to eight diverse conditions	71 (Patients and/or carers who travelled for overseas treatment = 24; Patients contemplating travelling = 27; HCPs/ scientists = 20)	Unreported	Qualitative interviews	 Very limited information on participants characteristics Current health status of patients not reported Response rate unreported Detailed information on recruitment procedure Limited information on data analysis Unclear if saturation was achieved and sample size adequate. Findings may be less specific due to the diversity of conditions. 	

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Author	Country	Type of therapy	Participants	Condition	Sample size	Age range (years)	Design/method	Critical appraisal
								 Funding source reported (non- pharmaceutical). Authors declared no competing interests.
Vicsek et al. (2011) ³⁶	Hungary	Stem cell	Media newspaper articles; public	Not applicable	326 articles, 56 focus group participants	25-60	Qualitative content analysis and focus groups	 Response rate (focus group) unreported Limited participant demographic information Limited information on data analysis Unclear if saturation was achieved and sample size adequate. Funding sources reported (non- pharmaceutical). Funders' role not specified. No statement on competing interests was provided.
Wang et al. (2017) ³⁷	China	Gene therapy	Public; clinicians	Not applicable	13,201 valid responses (11,036 general public, 2,165 clinicians) Females (44.2% clinicians, 42.0% public)	18-50	Online survey	 Sample size >100 Completion rate 97.3% Detailed information on demographics provided Recruitment done through social media, personal promotion (potential selection bias) Funding sources reported (non-pharmaceutical). Authors declared no competing interests.
Wright et al. (2016) ³⁸	UK	Stem cell	Patients	Possible post- obstetric incontinence	70	16-50	Quantitative questionnaire with some free text response options	 Response rate 92% Sample size <100 Ethnicity, educational and financial status unreported Funding sources reported (non-pharmaceutical). Authors declared no competing interests.

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