

## Particle Therapy Patient Statistics (per end of 2018)

(Data collected by the Particle Therapy Co-Operative Group)

COUNTRY	WHERE SITE	PARTICLE	FIRST (-LAST) PATIENT	PATIENTS TOTAL	DATE OF TOTAL
Austria	Wiener Neustadt (MedAustron)	p	2017	297	Dec-18
Belgium	Louvain-la-Neuve	p	1991 (-1993)	21	1993
Canada	Vancouver (TRIUMF)	$\pi^-$	1979 (-1994)	367	1994
Canada	Vancouver (TRIUMF)	p	1995 (-2017)	204	Jul-05
Czech Rep.	Prag (PTCCZ)	p	2012	3551	Dec-18
China	Wanjie (WPTC)	p	2004	1444	Dec-18
China	Lanzhou	C-ion	2006	213	Dec-18
China	Shanghai (SPHIC)	p	2014	123	Dec-18
China	Shanghai (SPHIC)	C-ion	2014	723	Dec-18
China	Shanghai (SPHIC)	p&C-ion	2014	887	Dec-18
England	Clatterbridge	p	1989	3450	Dec-18
France	Nice (CAL)	p	1991	6394	Dec-18
France	Orsay (CPO)	p	1991	9476	Dec-18
Germany	Darmstadt (GSI)	C-ion	1997 (-2009)	440	2009
Germany	Berlin (HZB)	p	1998	3417	Dec-18
Germany	Munich (RPTC)	p	2009	3798	Dec-18
Germany	HIT, Heidelberg	p	2009	2186	Dec-18
Germany	HIT, Heidelberg	C-ion	2009	3016	Dec-18
Germany	WPE, Essen	p	2013	1471	Dec-18
Germany	UPTD, Dresden	p	2014	721	Dec-18
Germany	MIT, Marburg	p	2015	408	Dec-18
Germany	MIT, Marburg	C-ion	2015	322	Dec-18
Italy	Catania (INFN-LNS)	p	2002	350	Dec-18
Italy	Pavia (CNAO)	p	2011	837	Dec-18
Italy	Pavia (CNAO)	C ion	2012	1307	Dec-18
Italy	Trento (APSS)	p	2014	550	Dec-18*
Japan	Chiba	p	1979 (-2002)	145	2002
Japan	Tsukuba (PMRC, 1)	p	1983 (-2000)	700	2000
Japan	Chiba (HIMAC)	p	1994	150	Dec-18*
Japan	Chiba (HIMAC)	C ion	1994	12649	Dec-18
Japan	Kashiwa (NCC)	p	1998	3000	Dec-18*
Japan	Hyogo (HIBMC)	p	2001	5984	Dec-18
Japan	Hyogo (HIBMC)	C ion	2002	2897	Dec-18
Japan	WERC	p	2002 (-2009)	62	2009
Japan	Tsukuba (PMRC, 2)	p	2001	5490	Dec-18
Japan	Shizuoka (PTCC)	p	2003	2200	Dec-18*
Japan	Koriyama-City (STPTC)	p	2008	4600	Dec-18*
Japan	Gunma (GHMC)	C ion	2010	2711	Mar-18
Japan	Ibusuki (MMRI)	p	2011	2909	Dec-18
Japan	Fukui City (Prefectural Hospital)	p	2011	1015	Mar-18
Japan	Nagoya (Nagoya PTC)	p	2013	2000	Dec-18*
Japan	Tosu (Saga-HIMAT)	C ion	2013	2583	Mar-18
Japan	Nagano (Aizawa PTC)	p	2014	250	Dec-18*
Japan	Hokkaido (Univ.Hospital PBTC)	p	2014	328	Dec-18

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Japan	Kanagawa (i-Rock)	C-ion	2015	600	Dec-18*
Japan	Kobe PTC	p	2017	110	Dec-18
Poland	Krakow (IFJ PAN)	p	2011	394	Dec-18
Russia	Dubna (1)	p	1967 (-1996)	124	1996
Russia	Moscow (ITEP)	p	1969	4368	Dec-18
Russia	St. Petersburg	p	1975	1386	Dec-18
Russia	Dubna (JINR, 2)	p	1999	1279	Dec-18
South Africa	Capetown (iThemba LABS)	p	1993 (-2017)	524	2017
South Korea	Ilsan, Seoul (KNCC)	p	2007	2500	Dec-18*
South Korea	Seoul (Samsung PTC)	p	2015	1250	Dec-18*
Sweden	Uppsala (1)	p	1957 (-1976)	73	1976
Sweden	Uppsala (2)	p	1989 (-2014)	1431	2014
Sweden	Uppsala (The Skandion Clinic)	p	2015	681	Dec-18
Switzerland	Villigen PSI (Piotron)	$\pi^-$	1980 (-1993)	503	1993
Switzerland	Villigen PSI (OPTIS 1)	p	1984 (-2010)	5458	2010
Switzerland	Villigen-PSI, incl OPTIS2	p	1996	3366	Dec-18
Taiwan	Taipei (Chang Gung Memorial)	p	2015	1695	Dec-18
USA, CA.	Berkeley 184	p	1954 (-1957)	30	1957
USA, CA.	Berkeley	He	1957 (-1992)	2054	1992
USA, NM.	Los Alamos	$\pi^-$	1974 (-1982)	230	1982
USA, CA.	Berkeley	ions	1975 (-1992)	433	1992
USA, MA.	Harvard (HCL)	p	1961 (-2002)	9116	2002
USA, CA.	Loma Linda (LLUMC)	p	1990	20400	Dec-18*
USA, IN.	Bloomington (MPRI, 1)	p	1993 (-1999)	34	1999
USA, CA.	UCSF - CNL	p	1994	2052	Dec-18
USA, MA.	Boston (NPTC)	p	2001	10374	Dec-18
USA, IN.	Bloomington (IU Health PTC)	p	2004 (-2014)	2200	2014
USA, TX.	Houston (MD Anderson)	p	2006	8800	Dec-18*
USA, FL	Jacksonville (UFPTI)	p	2006	8053	Dec-18
USA, OK.	Oklahoma City (ProCure PTC)	p	2009	2725	Dec-18*
USA, PA.	Philadelphia (UPenn)	p	2010	5800	Dec-18*
USA, IL.	CDH Warrenville	p	2010	4000	Dec-18*
USA, VA.	Hampton (HUPTI)	p	2010	2500	Dec-18
USA, NY.	New Jersey (ProCure PTC)	p	2012	4000	Mar-19
USA, WA	Seattle (SCCA ProCure PTC)	p	2013	2300	Dec-18*
USA, MO.	St. Louis (S. Lee King PTC)	p	2013	800	Dec-18*
USA, TN.	Knowville (Provision Center)	p	2014	2200	Dec-18*
USA, CA.	San Diego (Californoa PCTC)	p	2014	2200	Dec-18*
USA, LA.	Shreveport (Willis Knighton)	p	2014	555	Dec-18
USA, FL.	Jacksonville (Ackerman CC)	p	2015	1050	Dec-18*
USA, MN.	Rochester (Mayo PBTC)	p	2015	2268	Dec-18
USA, NJ.	Brunswick (Laurie PC)	p	2015	350	Dec-18*
USA, TX.	Irving (Texas Center for PT)	p	2015	1300	Dec-18*
USA, TN.	Memphis (St.Jude Red Frog)	p	2015	450	Dec-18*
USA, AZ.	Phoenix (Mayo PBTC)	p	2016	1000	Dec-18*
USA, MD.	Baltimore (Maryland PTC)	p	2016	1425	Dec-18
USA, OH.	Cincinnati (Children's PTC)	p	2016	500	Dec-18*
USA, FL.	Orlando (Orlando Health PTC)	p	2016	390	Dec-18

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USA, OH.	Cleveland (UH Sideman PTC)	p	2016	200	Dec-18*
USA, MI.	Detroit (Beaumont Health PTC)	p	2017	150	Dec-18*
USA, FL.	Miami (Baptist Hospitals PTC)	p	2017	200	Dec-18*
<b>Summary, 1954-2018</b>			<b>PARTICLES</b>	<b>PATIENTS TOTAL</b>	<b>DATES OF TOTAL</b>
<b>Total of all facilities (in and out of operation):</b>			<b>He</b>	<b>2054</b>	1957-1992
			<b>Pions</b>	<b>1100</b>	1974-1994
			<b>C-ions</b>	<b>27905</b>	1994-2018
			<b>Other ions</b>	<b>433</b>	1975-1992
			<b>Protons</b>	<b>190036</b>	1954-2018
			<b>Grand Total</b>	<b>221528</b>	1954-2018

\*= estimated or not yet confirmed