

## Particle Therapy Patient Statistics (per end of 2020)

(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	765	Dec-20
Austria	Wiener Neustadt (MedAustron)	C-ion	2019	99	Dec-20
Belgium	Louvain-la-Neuve	p	1991 (-1993)	21	1993
Belgium	Uni Leuven PTC, Leuven	p	2020	12	Dec-20
Canada	Vancouver (TRIUMF)	$\pi^-$	1979 (-1994)	367	1994
Canada	Vancouver (TRIUMF)	p	1995 (-2017)	204	2017
Czech Rep.	Prag (PTCCZ)	p	2012	6052	Dec-20
China	Wanjie (WPTC)	p	2004	1829	Dec-20
China	Lanzhou	C-ion	2006 (-2013)	213	2013
China	Shanghai (SPHIC)	p	2014	200	Dec-20*
China	Shanghai (SPHIC)	C-ion	2014	3000	Dec-20*
China	Wuwei (WHITC)	C-ion	2019	150	Dec-20*
Denmark	Aarhus (DCPT)	p	2019	250	Dec-20*
France	Nice (CAL)	p	1991	7110	Dec-20
France	Orsay (CPO)	p	1991	10698	Dec-20
France	Caen (Cyclad)	p	2019	281	Dec-20
Germany	Darmstadt (GSI)	C-ion	1997 (-2009)	440	2009
Germany	Berlin (HZB)	p	1998	3963	Dec-20
Germany	Munich (RPTC)	p	2009 (-2019)	4000	2019
Germany	HIT, Heidelberg	p	2009	2841	Dec-20
Germany	HIT, Heidelberg	C-ion	2009	3793	Dec-20
Germany	WPE, Essen	p	2013	2520	Dec-20
Germany	UPTD, Dresden	p	2014	1222	Dec-20
Germany	MIT, Marburg	p	2015	700	Dec-20*
Germany	MIT, Marburg	C-ion	2015	530	Dec-20*
India	Apollo (Chennai)	p	2018	300	Dec-20
Italy	Catania (INFN-LNS)	p	2002	350	Dec-20
Italy	Pavia (CNAO)	p	2011	1402	Dec-20
Italy	Pavia (CNAO)	C ion	2012	1815	Dec-20
Italy	Trento (APSS)	p	2014	1300	Dec-20*
Japan	Chiba	p	1979 (-2002)	145	2002
Japan	Tsukuba (PMRC, 1)	p	1983 (-2000)	700	2000
Japan	Chiba (HIMAC)	p	1994	180	Dec-20*
Japan	Chiba (HIMAC)	C ion	1994	14300	Dec-20*
Japan	Kashiwa (NCC)	p	1998	3800	Dec-20*
Japan	Hyogo (HIBMC)	p	2001	6352	Dec-20
Japan	Hyogo (HIBMC)	C ion	2002	3119	Dec-20
Japan	WERC	p	2002 (-2009)	62	2009
Japan	Tsukuba (PMRC, 2)	p	2001	6269	Dec-20
Japan	Shizuoka (PTCC)	p	2003	2588	Dec-20
Japan	Koriyama-City (STPTC)	p	2008	5700	Dec-20*
Japan	Gunma (GHMC)	C ion	2010	4560	Dec-20
Japan	Ibusuki (MMRI)	p	2011	4047	Dec-20
Japan	Fukui City (Prefectural Hospital)	p	2011	1485	Dec-20

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Japan	Nagoya (Nagoya PTC)	p	2013	3100	Dec-20*
Japan	Tosu (Saga-HIMAT)	C ion	2013	5000	Dec-20*
Japan	Nagano (Aizawa PTC)	p	2014	500	Dec-20*
Japan	Hokkaido (Univ.Hospital PBTC)	p	2014	531	Dec-20
Japan	Kanagawa (i-Rock)	C-ion	2015	1541	Dec-20
Japan	Kobe PTC	p	2017	500	Dec-20*
Japan	Tsuyama Chuo PTC, Okayama	p	2016	500	Dec-20*
Japan	Hakuhokai Group PTC, Osaka	p	2017	250	Dec-20*
Japan	Narita Memorial PC, Toyohashi	p	2018	200	Dec-20*
Japan	Osaka Heavy Ion Therapy	C-ion	2018	650	Dec-20*
Japan	Hokkaido Ohno, Sapporo	p	2018	250	Dec-20*
Japan	Takai Hospital, Tenri	p	2018	250	Dec-20*
Japan	Nagamori Memorial H., Kyoto	p	2019	200	Dec-20*
Poland	Krakov (IFJ PAN)	p	2011	687	Dec-20
Russia	Dubna (JINR, 1)	p	1967 (-1996)	124	1996
Russia	Moscow (ITEP)	p	1969	4368	Dec-20*
Russia	St. Petersburg	p	1975 (-2018)	1386	2018
Russia	Dubna (JINR, 2)	p	1999	1299	Dec-20
Russia	St. Petersburg	p	2018	600	Dec-20*
Russia	MRRC, Obninsk	p	2018	430	Dec-20
South Africa	Capetown (iThemba LABS)	p	1993 (-2017)	524	2017
South Korea	Ilsan, Seoul (KNCC)	p	2007	3762	Dec-20
South Korea	Seoul (Samsung PTC)	p	2015	3433	Dec-20
Spain	Quironsalud PTC, Madrid	p	2019	90	Dec-20*
Spain	CUN PTC, Madrid	p	2020	80	Dec-20
Sweden	Uppsala (1)	p	1957 (-1976)	73	1976
Sweden	Uppsala (2)	p	1989 (-2014)	1431	2014
Sweden	Uppsala (The Skandion Clinic)	p	2015	1238	Dec-20
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	4054	Dec-20
Taiwan	Taipei (Chang Gung Memorial)	p	2015	2933	Dec-20
The Netherlands	Groningen (UMC PTC)	p	2018	705	Dec-20
The Netherlands	Delft (Holland PTC)	p	2018	300	Dec-20*
The Netherlands	Maastricht (ZON PTC)	p	2019	110	Dec-20*
United Kingdom	Clatterbridge	p	1989	3896	Dec-20
United Kingdom	Manchester (NHS)	p	2019	392	Dec-20
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	21800	Dec-20*
USA, IN.	Bloomington (MPRI, 1)	p	1993 (-1999)	34	1999
USA, CA.	UCSF - CNL	p	1994	2211	Dec-20
USA, MA.	Boston (NPTC)	p	2001	11496	Dec-20
USA, IN.	Bloomington (IU Health PTC)	p	2004 (-2014)	2200	2014
USA, TX.	Houston (MD Anderson)	p	2006	10000	Dec-20*

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USA, FL	Jacksonville (UFHPTI)	p	2006	9274	Dec-20
USA, OK.	Oklahoma City (ProCure PTC)	p	2009	3300	Oct-20*
USA, PA.	Philadelphia (UPenn)	p	2010	7177	Dec-20
USA, IL.	Chicago (NW Chicago PTC)	p	2010	4767	Dec-20
USA, VA.	Hampton (HUPTI)	p	2010	4100	Dec-20*
USA, NY.	New Jersey (ProCure PTC)	p	2012	5100	Dec-20*
USA, WA	Seattle (SCCA ProCure PTC)	p	2013	3326	Dec-20
USA, MO.	St. Louis (S. Lee King PTC)	p	2013	1079	Mar-21
USA, TN.	Knowville (Provision Cares PTC)	p	2014	3599	Dec-20
USA, CA.	San Diego (Californoa PCTC)	p	2014	4699	Dec-20
USA, LA.	Shreveport (Willis Knighton)	p	2014	854	Dec-20
USA, FL.	Jacksonville (Ackerman CC)	p	2015	1500	Dec-20*
USA, MN.	Rochester (Mayo PBTC)	p	2015	4100	Dec-20*
USA, NJ.	Brunswick (Laurie PC)	p	2015	720	Dec-20*
USA, TX.	Irving (Texas Center for PT)	p	2015	2800	Dec-20*
USA, TN.	Memphis (St.Jude Red Frog)	p	2015	1300	Dec-20*
USA, AZ.	Phoenix (Mayo PBTC)	p	2016	2350	Dec-20*
USA, MD.	Baltimore (Maryland PTC)	p	2016	2791	Dec-20
USA, OH.	Cincinnati (Children's PTC)	p	2016	1850	Dec-20*
USA, FL.	Orlando (Orlando Health PTC)	p	2016	800	Dec-20*
USA, OH.	Cleveland (UH Sideman PTC)	p	2016	580	Dec-20*
USA, MI.	Detroit (Beaumont Health PTC)	p	2017	600	Dec-20
USA, FL.	Miami (Baptist Hospitals PTC)	p	2017	900	Dec-20*
USA, GA.	Atlanta (Emory PTC)	p	2018	1026	Dec-20
USA, D.C.	Washington (MedStar PTC)	p	2018	450	Dec-20*
USA, TN.	Nashville (Provision Care PTC)	p	2018	600	Dec-20*
USA, OK.	Oklahoma (Stephenson CC)	p	2019	250	Dec-20*
USA, MI.	Flint (Mc Laren PTC)	p	2019	200	Dec-20*
USA, NY.	New York (New York PTC)	p	2019	500	Dec-20*
USA, DC.	Washington (Johns HopkinsPC)	p	2019	336	Dec-20
USA, FL.	Delray Beach (SFPTI)	p	2019	150	Dec-20*
USA, FL.	Jacksonville (UFHPTI)	p	2019	100	Dec-20*
USA, VA.	Inova Schar Cancer I, Fairfax	p	2020	80	Dec-20*
USA, AL.	Univ. of Alabama PTC, Birmingham	p	2020	70	Dec-20*
USA, FL.	UM Sylvester Dvoskin, Miami	p	2020	20	Dec-20*
USA, MA.	Gordon Browne, Boston	p	2020	60	Dec-20*
<b>Summary, 1954-2020</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>39210</b>	1994-2020
			<b>Other ions</b>	<b>433</b>	1975-1992
			<b>Protons</b>	<b>249297</b>	1954-2020
			<b>Grand Total</b>	<b>292094</b>	1954-2020

\*= estimated or not yet confirmed

n.a.= no data available