

## Particle Therapy Patient Statistics (per end of 2013)

| WHERE        |                                   | PARTICLE | FIRST (-LAST)<br>PATIENT | PATIENT<br>TOTAL | DATE OF<br>TOTAL |                    |
|--------------|-----------------------------------|----------|--------------------------|------------------|------------------|--------------------|
| COUNTRY      | SITE                              |          |                          |                  |                  |                    |
| Belgium      | Louvain-la-Neuve                  | p        | 1991 (-1993)             | 21               | 1993             | ocular tumors only |
| Canada       | Vancouver (TRIUMF)                | $\pi^-$  | 1979 (-1994)             | 367              | 1994             | ocular tumors only |
| Canada       | Vancouver (TRIUMF)                | p        | 1995                     | 175              | Dec-13           | ocular tumors only |
| Czech Rep.   | Prag (PTCCZ)                      | p        | 2012                     | 140              | Dec-13           |                    |
| China        | Wanjie (WPTC)                     | p        | 2004                     | 1078             | Dec-13           |                    |
| China        | Lanzhou                           | C ion    | 2006                     | 213              | Dec-13           |                    |
| England      | Clatterbridge                     | p        | 1989                     | 2446             | Dec-13           | ocular tumors only |
| France       | Nice (CAL)                        | p        | 1991                     | 4936             | Dec-13           | ocular tumors only |
| France       | Orsay (CPO)                       | p        | 1991                     | 6432             | Dec-13           | 5082 ocular tumors |
| Germany      | Darmstadt (GSI)                   | C-ion    | 1997 (-2009)             | 440              | 2009             |                    |
| Germany      | Berlin (HMI)                      | p        | 1998                     | 2312             | Dec-13           | ocular tumors only |
| Germany      | Munich (RPTC)                     | p        | 2009                     | 1811             | Dec-13           |                    |
| Germany      | HIT, Heidelberg                   | C ion    | 2009                     | 1368             | Dec-13           |                    |
| Germany      | HIT, Heidelberg                   | p        | 2009                     | 503              | Dec-13           |                    |
| Germany      | WPE, Essen                        | p        | 2013                     | 32               | Dec-13           |                    |
| Italy        | Catania (INFN-LNS)                | p        | 2002                     | 293              | Nov-12           | ocular tumors only |
| Italy        | Pavia (CNAO)                      | p        | 2011                     | 76               | Dec-13           |                    |
| Italy        | Pavia (CNAO)                      | C ion    | 2012                     | 105              | Dec-13           |                    |
| Japan        | Chiba                             | p        | 1979 (-2002)             | 145              | 2002             | ocular tumors only |
| Japan        | Tsukuba (PMRC, 1)                 | p        | 1983 (-2000)             | 700              | 2000             |                    |
| Japan        | Chiba (HIMAC)                     | C ion    | 1994                     | 8073             | Dec-13           | 377 with scanning  |
| Japan        | Kashiwa (NCC)                     | p        | 1998                     | 1226             | Mar-13           |                    |
| Japan        | Hyogo (HIBMC)                     | p        | 2001                     | 4223             | Dec-13           |                    |
| Japan        | Hyogo (HIBMC)                     | C ion    | 2002                     | 1935             | Dec-13           |                    |
| Japan        | WERC                              | p        | 2002 (-2009)             | 62               | 2009             |                    |
| Japan        | Tsukuba (PMRC, 2)                 | p        | 2001                     | 2967             | Dec-13           |                    |
| Japan        | Shizuoka                          | p        | 2003                     | 1590             | Dec-13           |                    |
| Japan        | Koriyama-City                     | p        | 2008                     | 2306             | Dec-13           |                    |
| Japan        | Gunma                             | C ion    | 2010                     | 985              | Dec-13           |                    |
| Japan        | Ibusuki (MMRI)                    | p        | 2011                     | 919              | Dec-13           |                    |
| Japan        | Fukui City (Prefectural Hospital) | p        | 2011                     | 428              | Dec-13           |                    |
| Japan        | Nagoya PTC, Nagoya, Aichi         | p        | 2013                     | 199              | Dec-13           |                    |
| Japan        | Tosu (Saga-HIMAT)                 | p        | 2013                     | 62               | Dec-13           |                    |
| Poland       | Krakow                            | p        | 2011                     | 39               | Dec-13           | ocular tumors only |
| Russia       | Dubna (1)                         | p        | 1967 (-1996)             | 124              | 1996             |                    |
| Russia       | Moscow (ITEP)                     | p        | 1969                     | 4320             | Dec-13           |                    |
| Russia       | St. Petersburg                    | p        | 1975                     | 1386             | Dec-12           |                    |
| Russia       | Dubna (JINR, 2)                   | p        | 1999                     | 995              | Dec-13           |                    |
| South Africa | iThemba LABS                      | p        | 1993                     | 521              | Dec-13           |                    |
| South Korea  | Ilisan, Seoul (NCCR)              | p        | 2007                     | 1266             | Dec-13           |                    |
| Sweden       | Uppsala (1)                       | p        | 1957 (-1976)             | 73               | 1976             |                    |
| Sweden       | Uppsala (2)                       | p        | 1989                     | 1356             | Dec-13           |                    |
| Switzerland  | Villigen PSI (Piotron)            | $\pi^-$  | 1980 (-1993)             | 503              | 1993             |                    |
| Switzerland  | Villigen PSI (OPTIS 1)            | p        | 1984 (-2010)             | 5458             | 2010             | ocular tumors only |
| Switzerland  | Villigen-PSI, incl OPTIS2         | p        | 1996                     | 1581             | Dec-13           | 695 ocular tumors  |
| 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                     | 17829            | Dec-13           |                    |
| IN., USA     | Bloomington (MPRI, 1)             | p        | 1993 (-1999)             | 34               | 1999             | ocular tumors only |
| USA, CA.     | UCSF - CNL                        | p        | 1994                     | 1621             | Dec-13           | ocular tumors only |
| USA, MA.     | Boston (NPTC)                     | p        | 2001                     | 7345             | Dec-13           |                    |
| USA, IN.     | Bloomington (IU Health PTC)       | p        | 2004                     | 1927             | Dec-13           |                    |
| USA, TX.     | Houston (MD Anderson)             | p        | 2006                     | 4746             | Dec-13           |                    |
| USA, FL      | Jacksonville (UFPTI)              | p        | 2006                     | 5085             | Dec-13           |                    |
| USA, OK.     | Oklahoma City (ProCure PTC)       | p        | 2009                     | 1364             | Dec-13           |                    |
| USA, PA.     | Philadelphia (UPenn)              | p        | 2010                     | 1750             | Dec-13           |                    |
| USA, IL.     | CDH Warrenville                   | p        | 2010                     | 1329             | Dec-13           |                    |
| USA, VA.     | Hampton (HUPTI)                   | p        | 2010                     | 767              | Dec-13           |                    |
| USA, NY.     | New Jersey (ProCure PTC)          | p        | 2012                     | 512              | Dec-13           |                    |
| USA, WA      | Seattle (SCCA ProCure PTC)        | p        | 2013                     | 86               | Dec-13           |                    |
| USA, MO.     | St. Louis (S. Lee King PTC)       | p        | 2013                     | 1                | Dec-13           |                    |

Total for all facilities (in operation and out of operation):

2054 He  
1100 pions  
13119 C-ions  
433 other ions  
105743 protons  
**122449 Grand Total**