



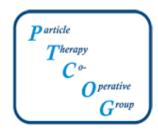


TREATMENT EFFICIENCY SUBCOMMITTEE

Co-chairs:

Frank Emert - Heng Li - Sung Yong Park

SC Meeting, June 12, 2024, 10:45 – 11:30, Singapore





GOOD CLINICAL PROTON PRACTICE (GCPP)

- ➤ Initiative launched under PTCOG Treatment Efficiency Subcommittee
- Ultimate goal to be an independent PTCOG subcommittee

Current members:

Robabeh Rahimi¹, Frank Emert², Kuang Ling Chen³, Estelle Batin⁴, Xing Li³, Mark Zakhary¹, Alessandra Bolsi²

¹Maryland University, ²Paul Scherrer Institute, ³Inova, ⁴Ohio State University

Actively recruiting new members

GCPP:: Challenge & Idea



The challenge

- Proton therapy is one of the most innovative treatment strategies in oncological external beam radiation therapy.
- As such, it is subject to a **highly dynamic research and development process**, which generally drives the ongoing adaptation to the state of the art in science and technology.
- This represents a **key challenge for** the establishment and dissemination of **consistent and up-to-date clinical PT treatment standards** within a heterogeneous landscape of proton therapy centers with different levels of development and experience.

The idea

GCPP was founded with the idea to support and supplement proton therapy

- ✓ in such a way that it contributes to the establishment and dissemination of consistent, high-level standards across all (available) PT centers.
- ✓ to enable effective and efficient patient treatments in its broad clinical application.
- ✓ to establish an exchange platform between interested centers regardless of their institutionalized level of development or experience to develop, discuss and document these standards.

GCPP:: Objectives & Consequence



The objectives

GCPP is (partially) oriented on the concept of (Good Clinical Practice) (GCP),

- > which has proven itself internationally for many years as a methodological framework for the design, conduct and analysis of clinical trials.
- > in the sense that apart from ethical regulations each clinical EBRT (including PT) trial requires scientifically well-founded implementation and standardized execution.
- whereby in the case of a clinical proton or particle study the focus is on ensuring standardized, reproducible treatment conditions in addition to the radio-oncological therapy concept for a specific indication.

The consequence

These conditions must be realized through the **application of complex quality assurance procedures**, **compliance with defined irradiation techniques and concepts**, whereby they are generally **based on guaranteed, mostly medical-physical environmental requirements**.

GCPP:: Name & Business Approach



The name

Since evidence-based clinical studies in various forms related to the technological implementation and compliance with **GCP** guidelines continue to be the gold standard for establishing new, improved treatment procedures - especially within EBRT - this provided the motivation for the extended naming to **GCPP** in the field of proton and particle therapy along the mentioned criteria.

The business approach

- ✓ GCPP is **not intended to hinder normal competition** between clinical facilities, which ensures that patients can freely choose their treatment facility.
- ✓ GCPP aims to support the joint long-term success of proton therapy as a radiotherapy method by providing the best possible organizational support for the corresponding treatment outcomes under known, documented application conditions in communication and exchange between many participants on a voluntary basis.

GCPP:: First application example

The couch notes

