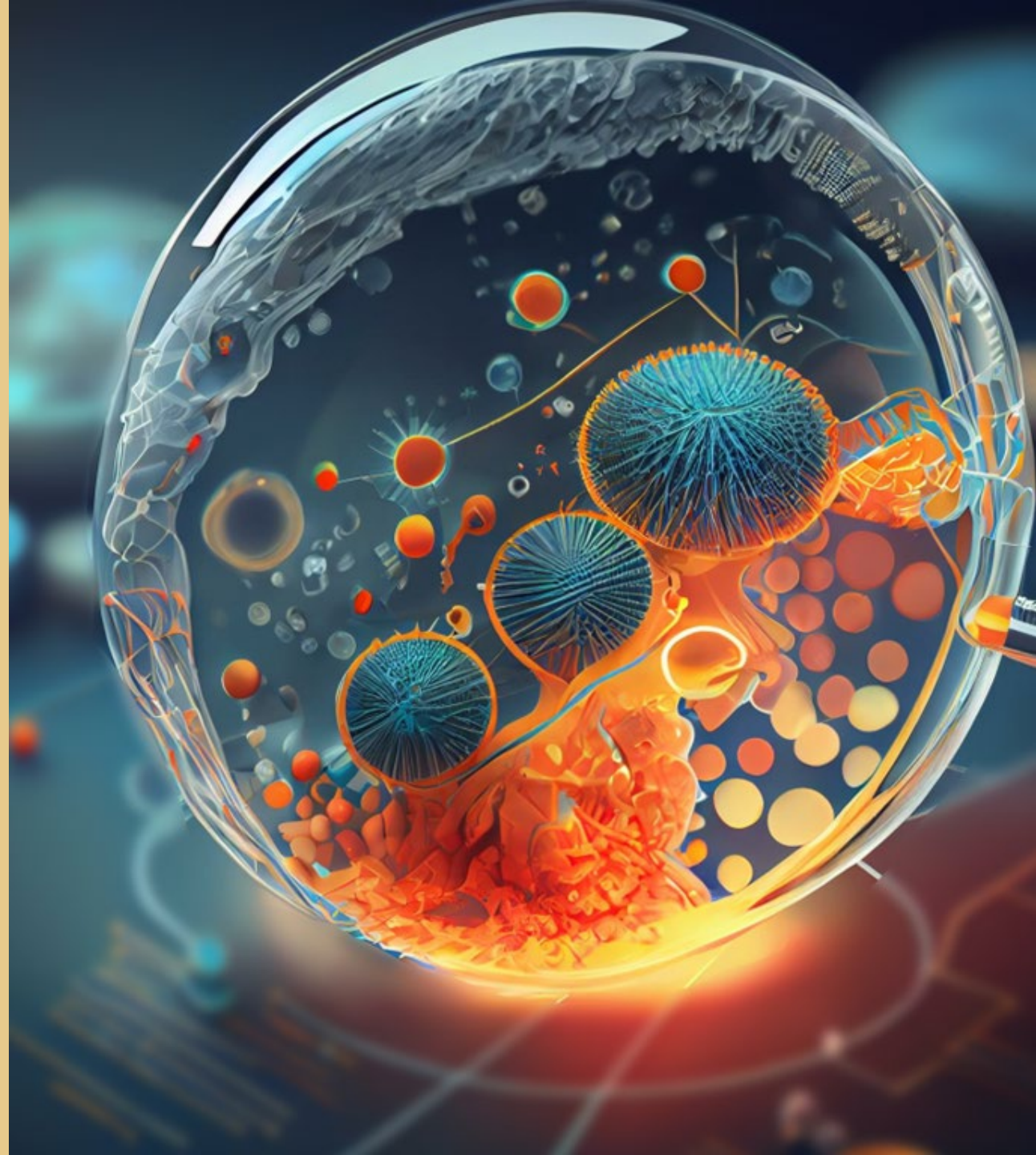


# Visibility & education

Introduction: What is Precision Therapy



## Precision Therapy: How to create awareness and continuous education

- 16:30 - 16:45 'Introduction' - J Vormoor (Netherlands)
- 16:45 – 16:55 “Why there is a need for raising awareness & education” (short introductory talk with slides, incl. questions) – **K Döhner (Germany)**
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# What is precision therapy?

- **Targeted Therapy** – Refers to treatments that specifically target **genetic mutations** or molecular markers in cancer cells.
- **Molecularly Targeted Therapy** – Emphasizes the **molecular basis** of the therapy.
- **Genomic Medicine** – Focuses on the use of **genomic information** to guide treatment decisions.
- **Biomarker-Driven Therapy** – Based on the use of **specific biomarkers** to guide treatment.
- **Stratified Medicine** – Involves **grouping patients** based on genetic or molecular characteristics to tailor treatment.
- **Personalized Medicine** – Tailoring treatment to the individual characteristics of each patient.
- **Individualized Therapy** – Highlights the customization of treatment for each patient.

# What is precision therapy?

## Precision medicine

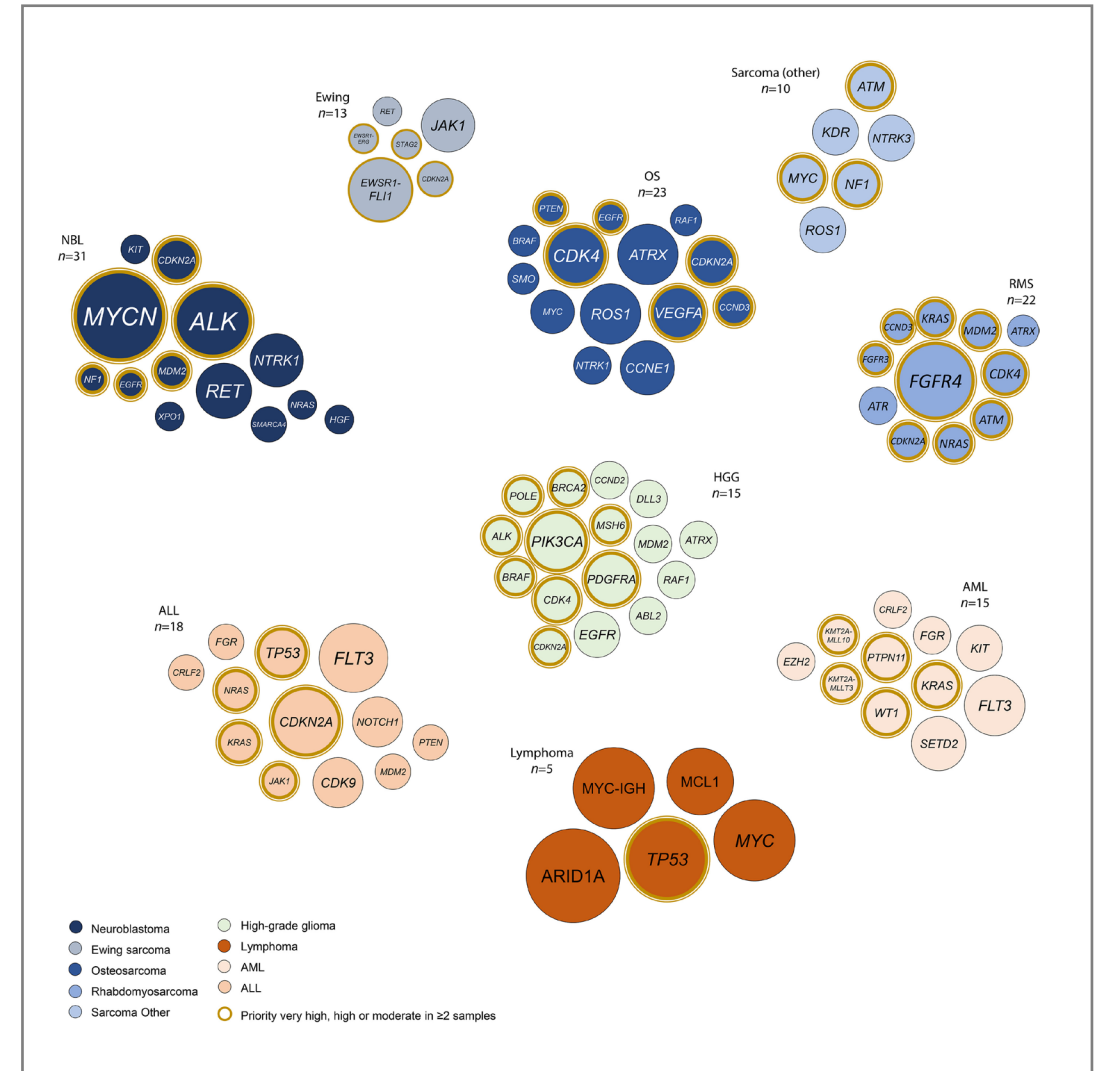
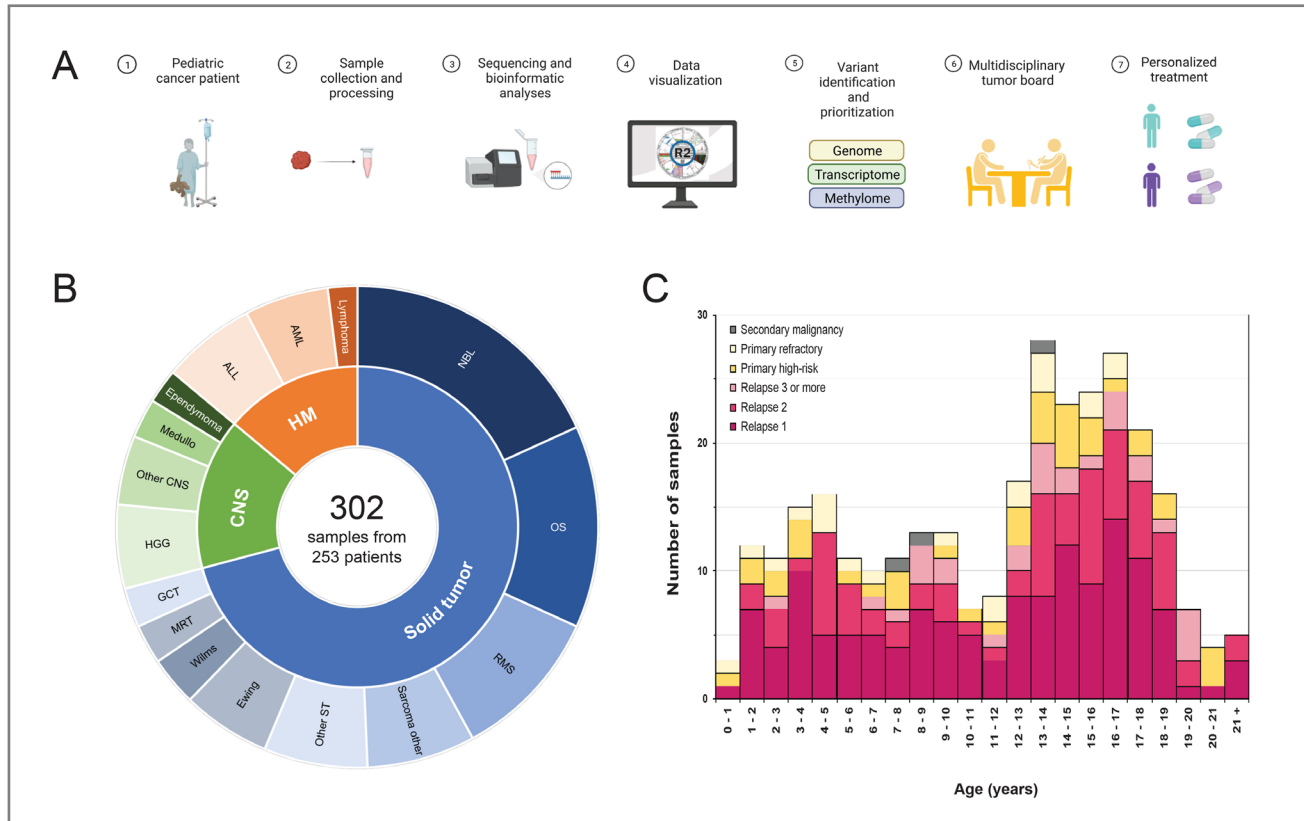
A form of medicine that uses information about a person's genes, proteins, environment, and lifestyle to prevent, diagnose, or treat disease.

### In cancer,

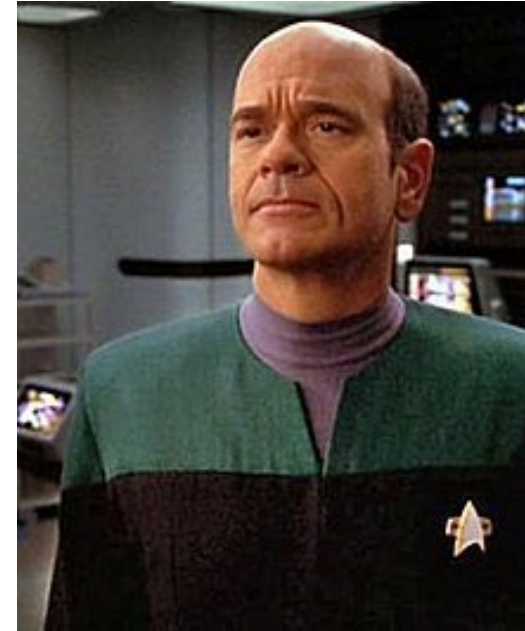
- precision medicine uses specific information about a person's tumor to help make a diagnosis, plan treatment, find out how well treatment is working, or make a prognosis.
- Precision medicine may also be used to help determine a person's risk of developing certain types of cancer.
- Examples of precision medicine include using targeted therapies to treat specific types of cancer, such as HER2-positive breast cancer, or using tumor marker testing to help diagnose cancer. Precision medicine is sometimes called personalized medicine.

***NCI definition***

# Implementation of paediatric precision oncology into clinical practice: The Individualized Therapies for Children with cancer program 'iTHER'



**Artificial Intelligence**  
*to support our  
molecular tumour boards ?*

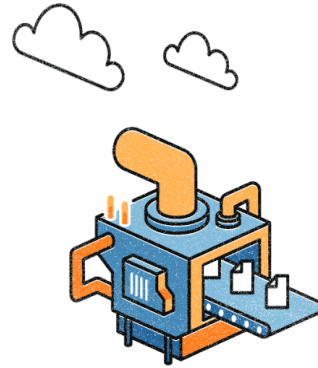


Emergency Medical Hologram (EMH)  
*Star Trek: Voyager*

Patient clinical data

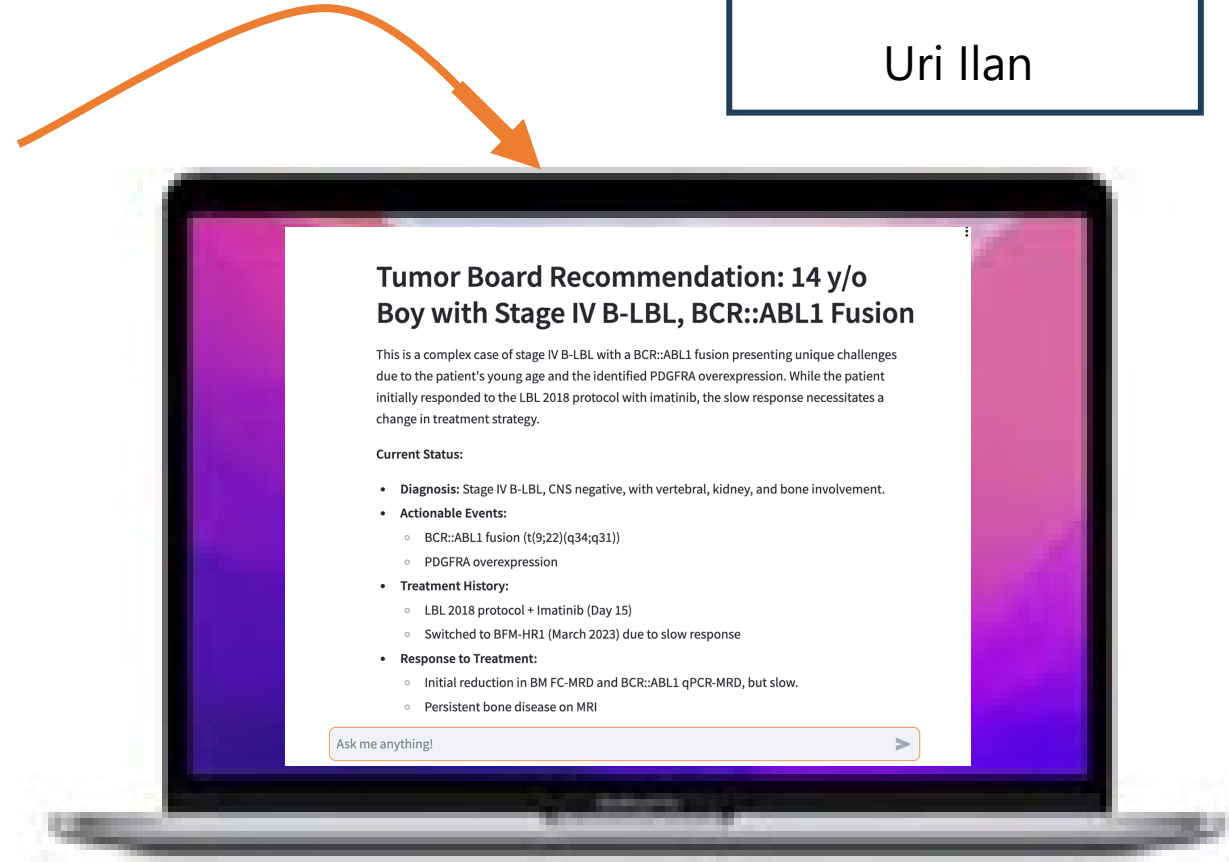


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Uri Ilan

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**There is more to Precision Therapy**  
*than molecular targeting*



# What is precision therapy?

**Precision therapy** refers to

- a personalized approach to treatment, primarily in the context of medical care, where **therapies are tailored to an individual's genetic makeup, lifestyle, environment, and specific characteristics of their disease.**
- It focuses on customizing treatments to target the unique molecular and genetic profiles of a patient, leading to more effective and efficient care.
- This approach is commonly used in fields like oncology, where precision medicine allows treatments like targeted therapies or immunotherapies to be directed at specific mutations or pathways involved in cancer development.

*ChatGPT*

# What is precision therapy?

**Key components of precision therapy** include:

- 1. Genomic profiling:** Identifying specific genetic mutations or abnormalities that can guide treatment decisions.
- 2. Targeted treatments:** Developing medications or therapies aimed at these specific genetic markers, rather than using a one-size-fits-all approach.
- 3. Personalized care:** Considering an individual's overall health, environment, and lifestyle to create a more effective treatment plan.
- 4. Ongoing monitoring:** Continuously assessing the patient's response to therapy to adjust the treatment plan as needed.

*ChatGPT*

# What is precision therapy?

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*ChatGPT*

## Why precision therapy?

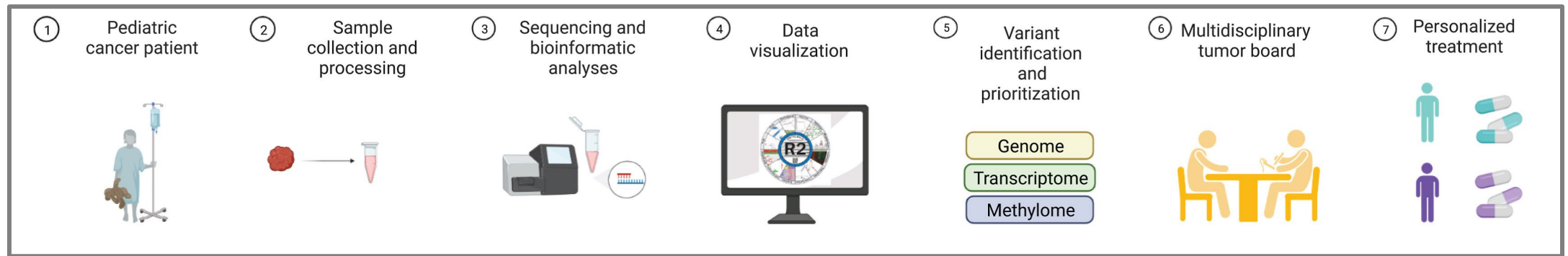
By focusing on individual differences in genetics, environment, and lifestyle, **precision therapy** promises

- more effective,
- efficient,
- and humane healthcare solutions.

Its implementation represents a significant step forward in transforming healthcare from a generalized approach to one that prioritizes the individual.

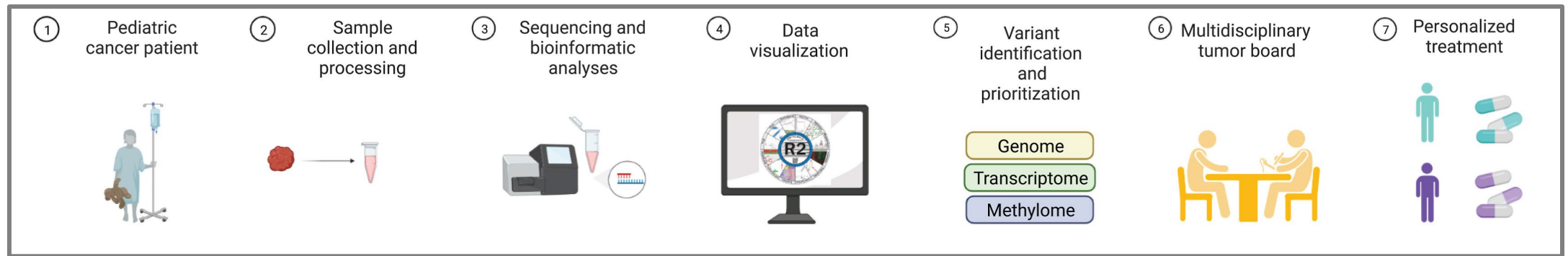
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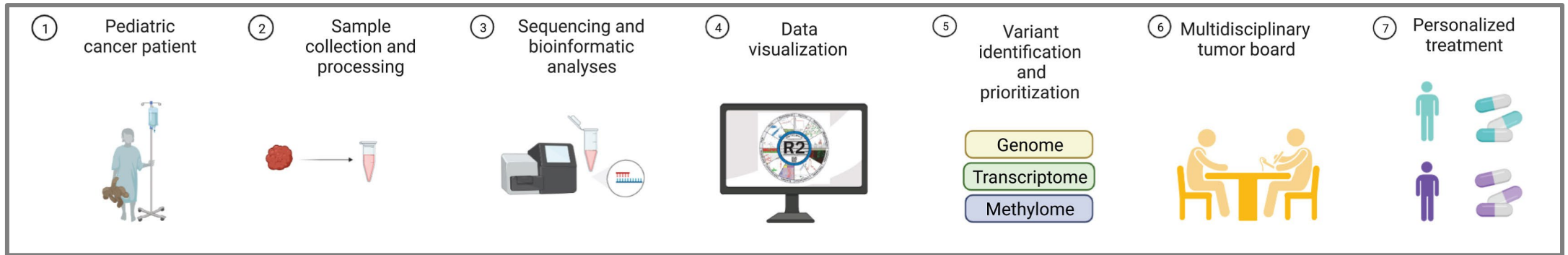
## Precision Therapy - Bottlenecks / Challenges

- Availability / funding for in depth molecular characterisation
- Access to specialised medical care
  - Inequalities across Europe
  - Social inequalities
  - Up-to-date information on open clinical trials
  - Barriers towards patient referrals
- Access to molecular tumour boards with the right expertise (rare diseases)
- Limited availability and efficacy of targeted drugs

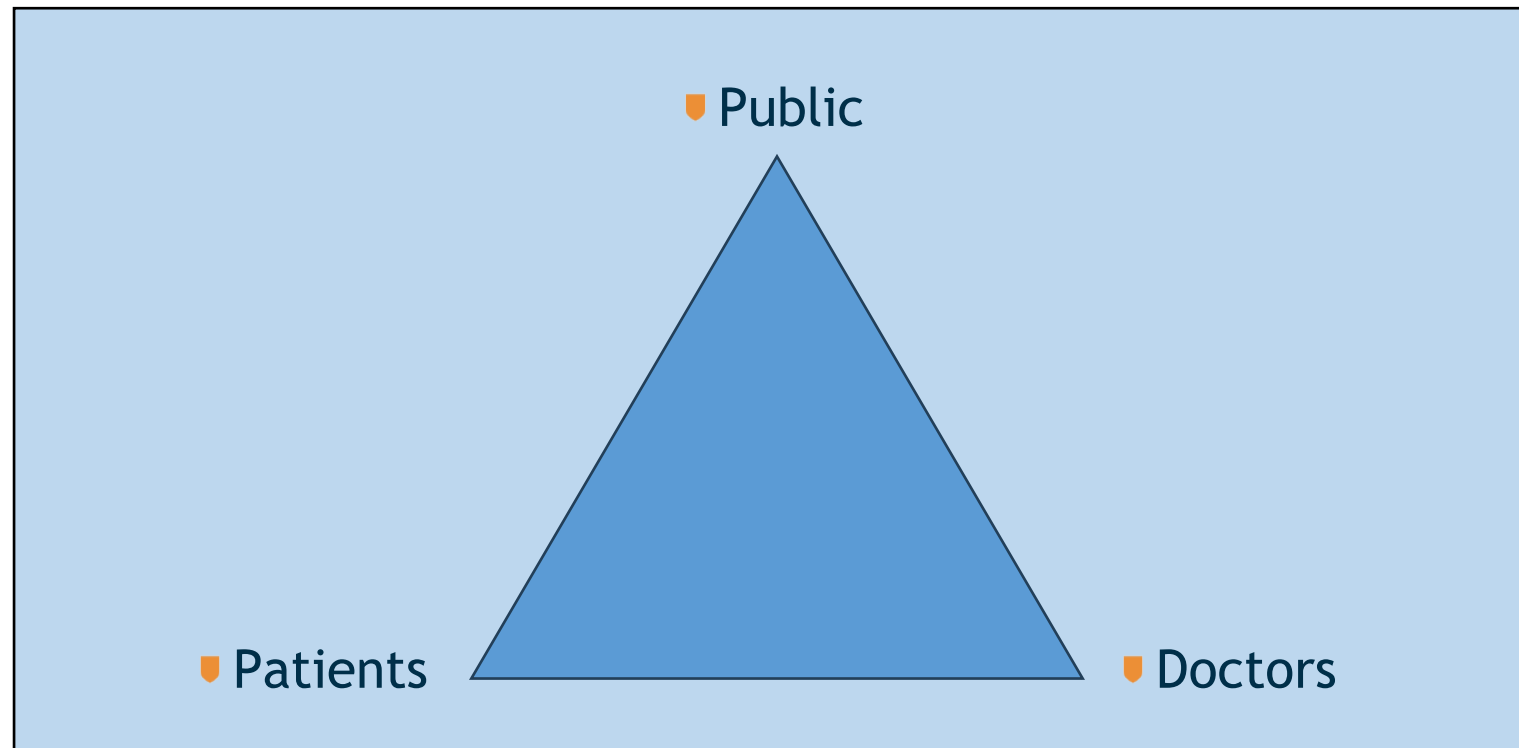


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## Precision Therapy - Bottlenecks / Challenges



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 eha **Sf**(PM)

Thank you

