PARIHERA

Prevention of cancer invasion by blood filtration

Problem

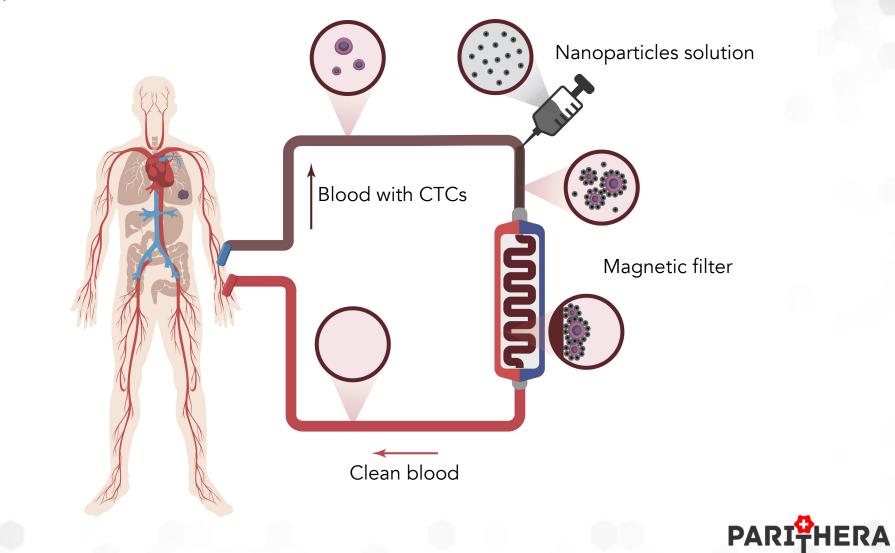
Over 90% of cancer patients die from metastases and none of the marketed therapies target **circulating tumor cells (CTCs)** the origin of metastases.





Solution

The procedure is comparable to dialysis but focuses on removing CTCs from the blood with magnetic nanoparticles.

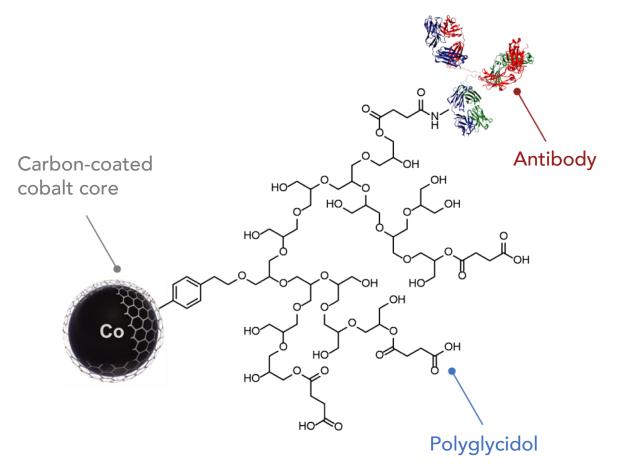


Our invention: A new generation of magnetic nanoparticles

Metallic core (Co or Fe) provides magnetic properties

Polymer layer (polyglycidol) provides antifouling properties

Antibody (application specific) provides specific binding to target cells





Results





The work was done as a collaboration between ETHZ and USZ.

ETH zürich

Developed magnetic nanoparticles



Tested procedure in blood samples





Time for questions





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