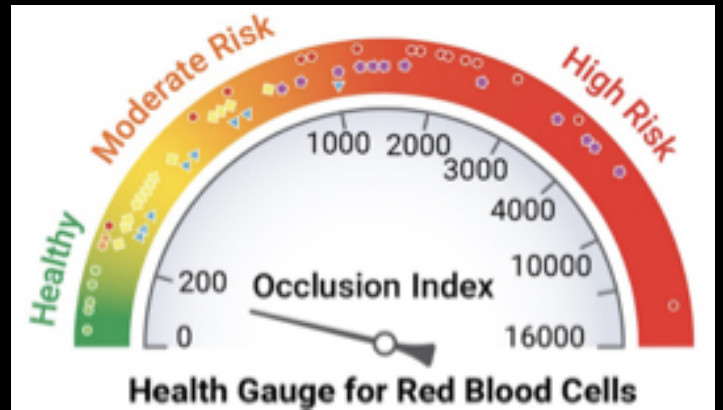
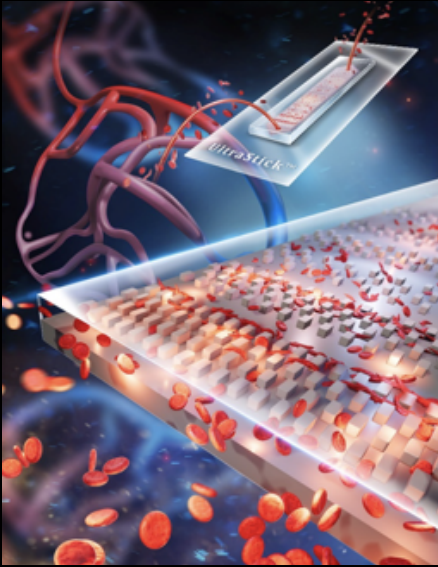


OcclusionChip



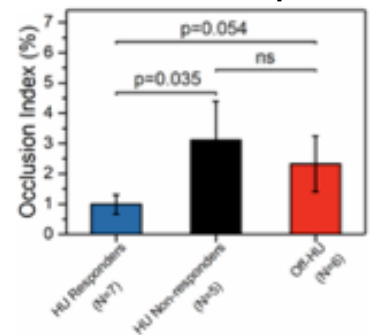
About Assessing microvascular occlusion mediated by red blood cells

Microvasculature Mimicking	Circulatory Diseases	Adhesion & Deformability	Sample
A gradient of microcapillary networks Side passageways mimicking the arteriovenous anastomoses	A universal parameter for assessment of RBC deformability in many circulatory diseases (RBC health gauge): Occlusion Index (OI)	The OcclusionChip can be functionalized with adhesion proteins for simultaneous adhesion & deformability measurements	Isolated RBCs at near physiologic hematocrit level (20%)

Typical Uses

- Clinical Assay
- Personalized Medicine
- Research
- Drug Development

Treatment Response



Highlights

Targeted Therapies

Drugs that target RBC sickling/deformability (e.g., Voxelotor) in SCD

Curative Therapies

NHLBI-supported multi-site study to assess RBC mediated microcapillary occlusions before and after a gene-based therapy for curative intent¹

Based on publications: Lab on a Chip, 2020; Microcirculation, 2020

1. <https://curesickle.org>



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"Disrupting disease through better diagnostics"¹

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