KaloCyte

Transfusion Therapy Where Blood is Not Available

IMPLE & FAST ON-SCENE RECONSTITUTION - ON-SITE or IN-ROUTE TRANSFUSION

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Blood loss after injury is responsible for over 25,000 lost lives each year in the US alone, and every minute of delay in replacing lost blood increases mortality by 5%. ErythroMer will be supplied as a freeze-dried powder, shelfstable without refrigeration, and packaged as a unit equivalent to one unit of RBCs-"just add water" for rapid use at the point of care or en route. prevents aggregation and improves biocompatibility.

LYOPHILIZATION & STABILITY



Lyophilized for extended shelf-life at ambient temperature

Designed for field use: rapid reconstitution with IV saline in minutes Lyophilization process and cryoprotectants maintain the physiochemical properties and product attributes (effective oxygen transport, no disruption of normal vascular tone, retention of Hb payload, preservation of Hb oxidative state with minimal metHb formation)

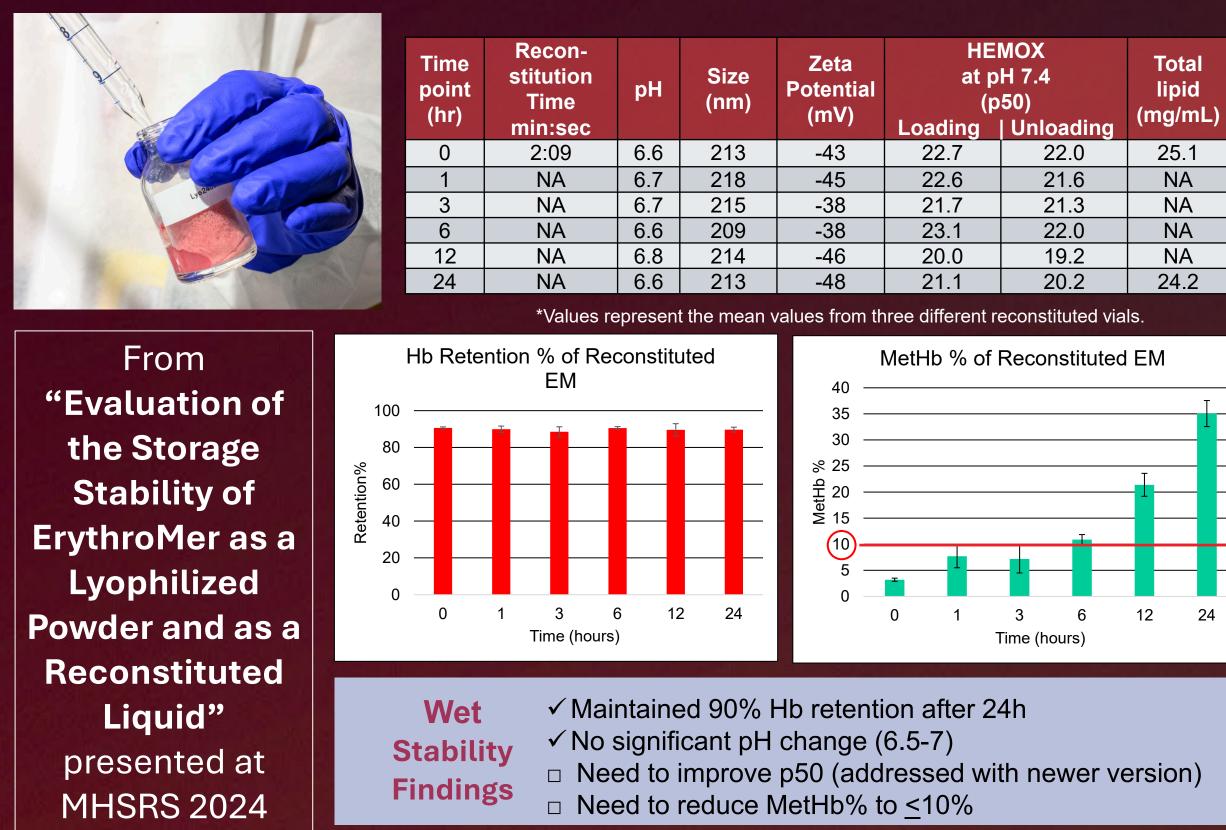


High Hb Payload Retention (>90%)

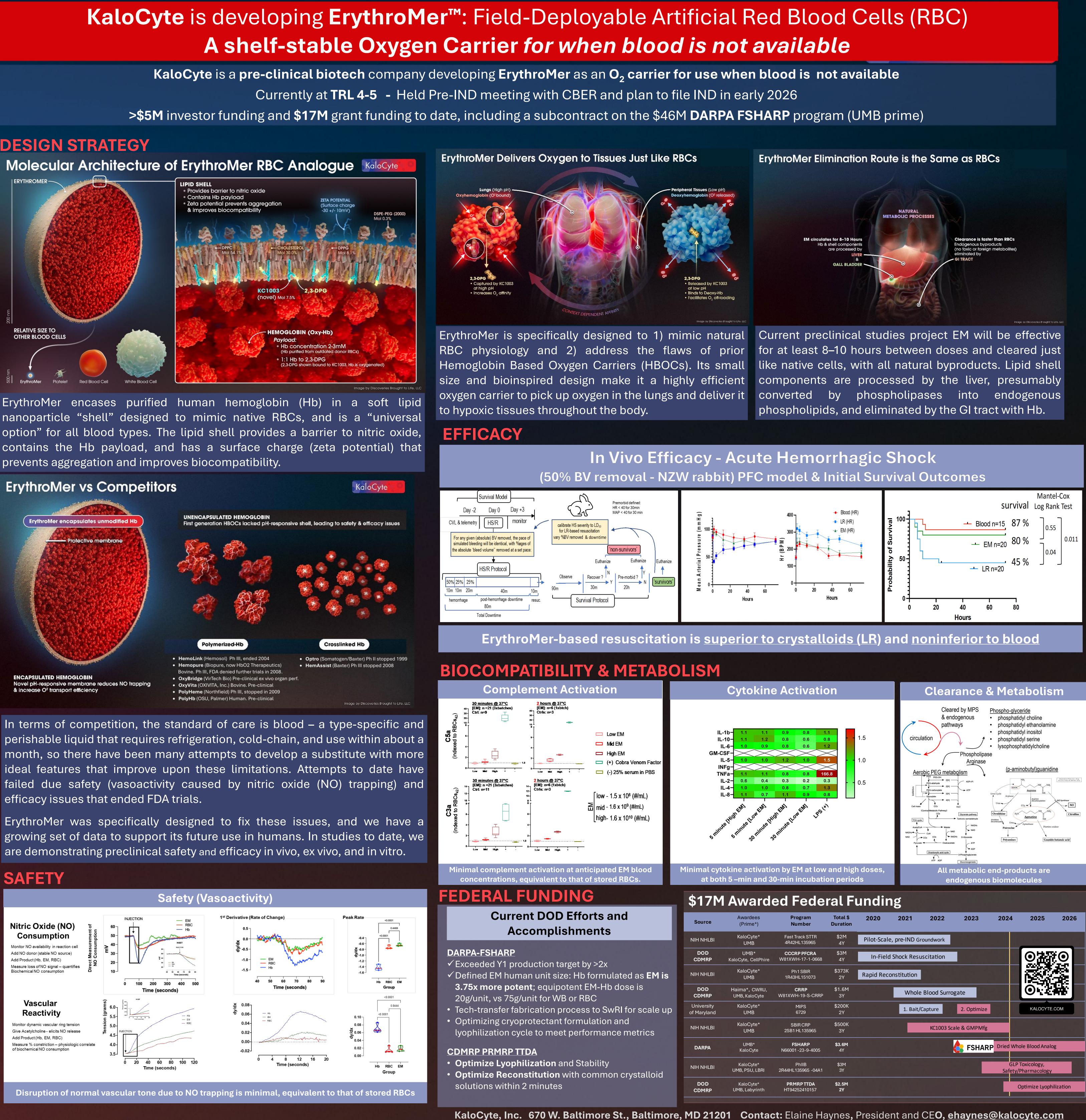
- ✓ Rapid Reconstitution time (3-5 min at RT)
- ✓ Low metHb % (<5% at 28 days)</p>

✓ Vial headspace O2 and moisture levels below limit of detectability

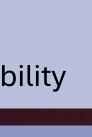
Characterization of Reconstituted "Wet EM"



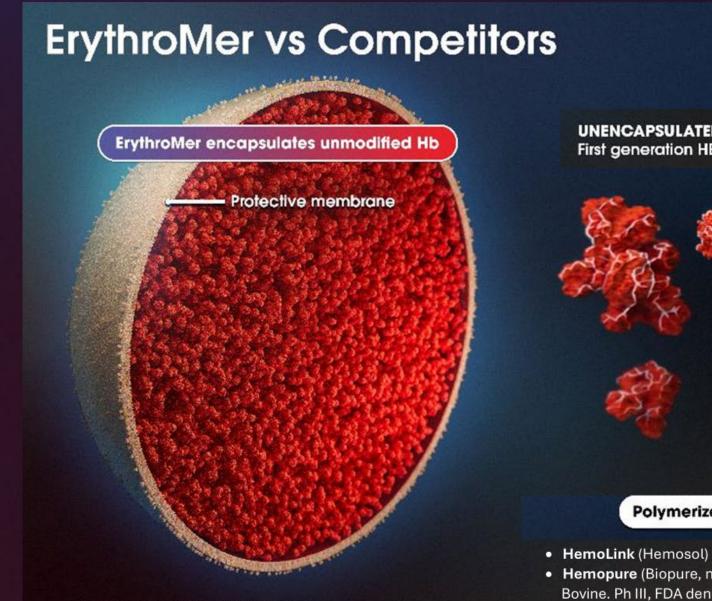


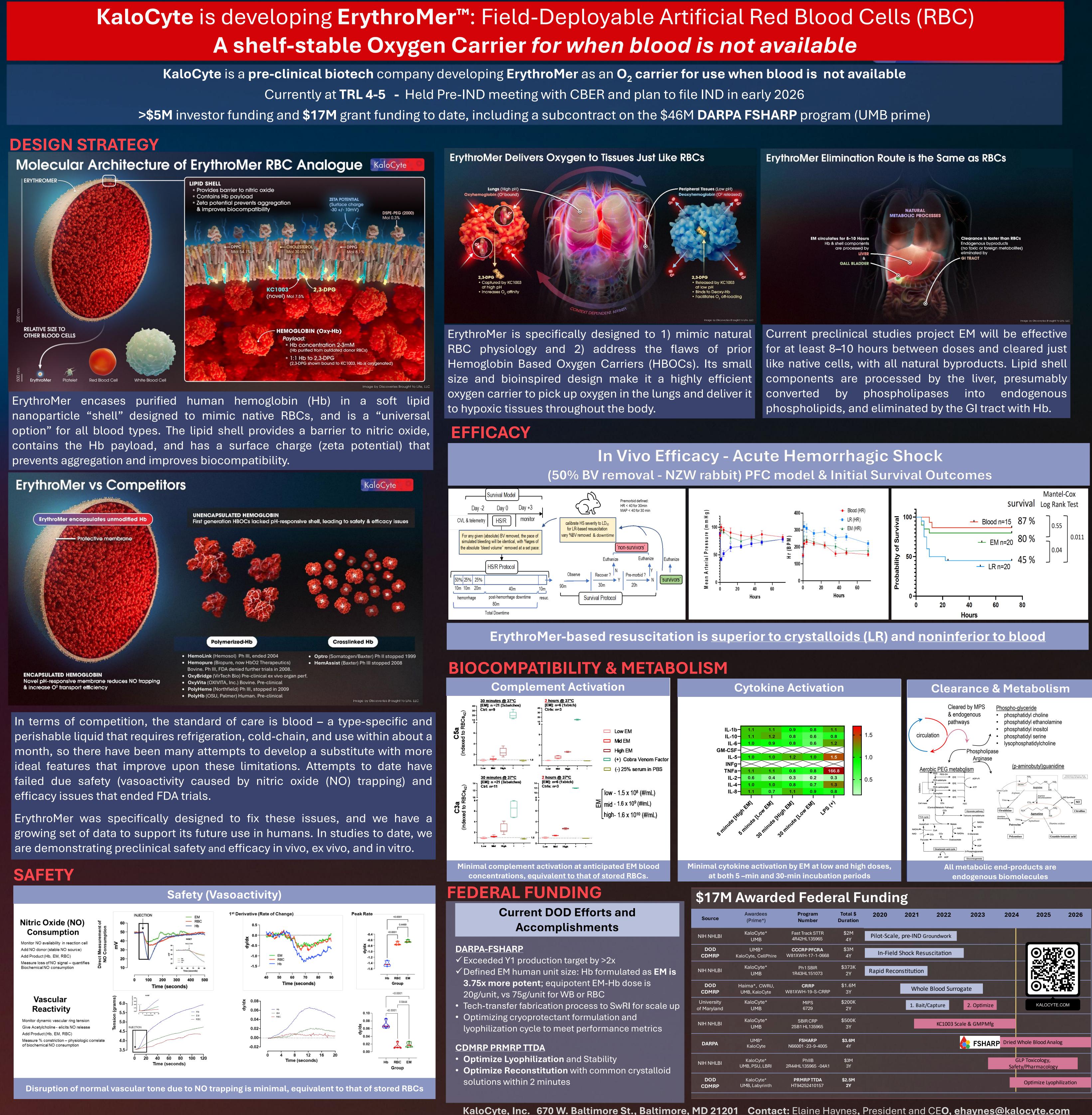












ees e*)	Program Number	Total \$ Duration	2020	2021	2022	2023	2024	2025	2026
te* 3	Fast Track STTR 4R42HL135965	\$2M 4Y	Pilot-Scal	e, pre-IND G	roundwork				
* ellPhire	CCCRP PFCRA W81XWH-17-1-0668	\$3M 4Y	In-Field	d Shock Resu	uscitation			0 27	
te* }	Ph1 SBIR 1R43HL151073	\$373K 2Y	Rapid Rec	onstitution					
CWRU, oCyte	CRRP W81XWH-19-S-CRRP	\$1.6M 3Y		Whole	e Blood Surro	gate		\bigcirc	¥
te* 3	MIPS 6729	\$200K 2Y		1. Bait/	Capture	2. Optimize		KALOCYTE	СОМ
te* 3	SBIR CRP 2SB1 HL135965	\$500K 3Y			KC1003 Sc	ale & GMPMfg			
* /te	FSHARP N66001 -23-9-4005	\$3.6M 4Y				🔥 FSHAF	RP Dried Wh	ole Blood Analo	g
te* , LBRI	PhIIB 2R44HL135965 -04A1	\$3M 3Y						Toxicology, Pharmacology	
te* yrinth	PRMRP TTDA HT94252410157	\$2.5M 2Y						Optimize Lyoph	ilization