












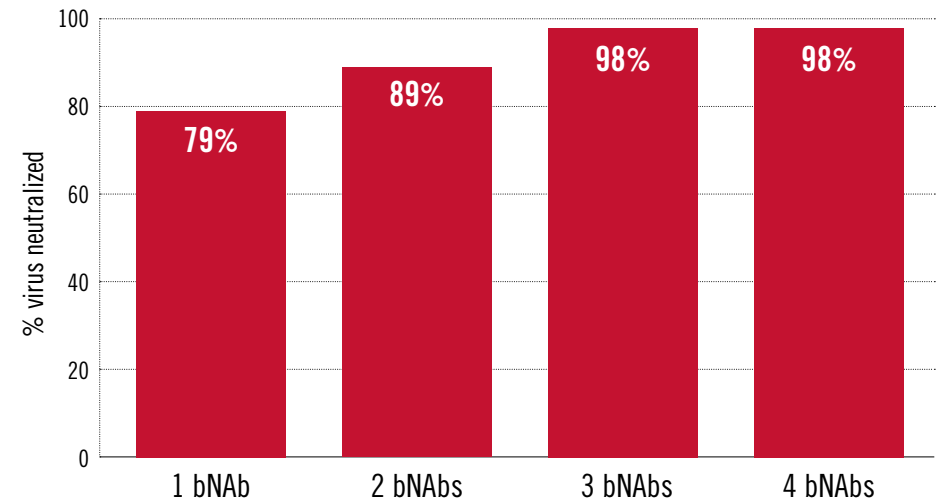
BROADLY NEUTRALIZING ANTIBODY COMBINATIONS

As with antiretroviral combinations used in treatment to control the virus, passive immunization of broadly neutralizing antibodies to protect against HIV will likely require two or more bNAb that target different parts of the virus. There are many factors to consider when selecting bNAb combinations, including how many bNAbs and which ones work best together. Here we outline the bNAb combinations being explored in early clinical studies.

bNAb Cocktails: Two or more antibodies in a regimen		
Regimen	Status	Research Institution
	Phase I, Ongoing	Rockefeller University
	Phase I, Planned	NIAID
	Phase I, Suspended	NIAID
	Phase I, Planned	CAPRISA, NIAID
	Phase I, Ongoing	BIDMC, IAVI, NIAID
	Phase I, Planned	CAPRISA, BIDMC, NIAID
	Phase I, Ongoing	BIDMC, IAVI
	Phase I, Ongoing	BIDMC, IAVI, NIAID
	Phase I, Planned	Columbia University











Multispecific: Parts of two or more antibodies on a single antibody		
Regimen	Status	Research Institution
	Phase I, Planned	Sanofi, NIAID
	Phase I, Ongoing	Aaron Diamond AIDS Research Center (ADARC)

Combining bNAbs to broaden neutralization*



Different antibodies have different neutralizing activities. Modeling and preclinical studies suggest that combining bNAbs may lead to broader neutralization compared to giving bNAbs alone, and multispecific antibodies might perform better than combinations. Clinical trials will validate whether these differences are seen in humans, and guide selection of best antibodies and combinations types.

*Data: Kong et al., 2015

KEY				
				
10-1074	10E8VLS	3BNC117	CAP256LS-VRC26.25	PGDM1400
				
VRC07-523L	PGT121	VRC01	Ibalizumab (iMab)	10E8.4