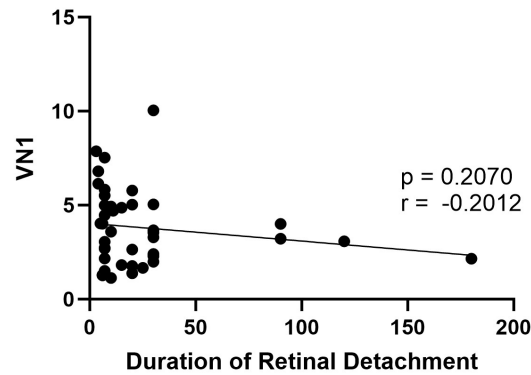
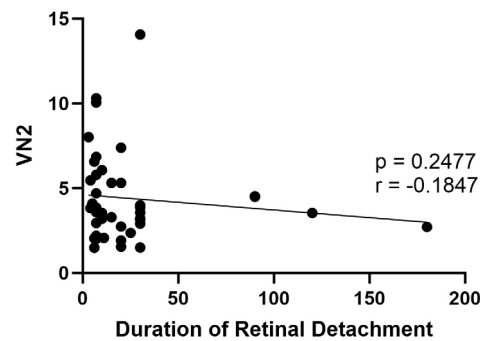


Appendix 1

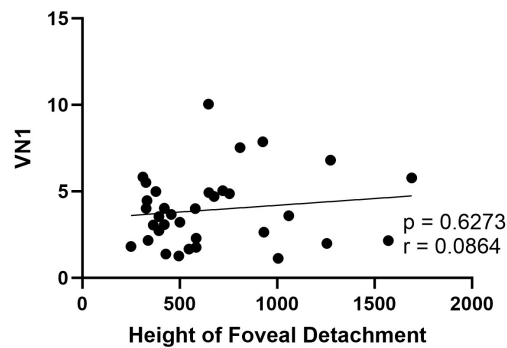
(I) VN1 FC *vs.* duration of retinal detachment: $r=-0.2012$, $P=0.2070$.



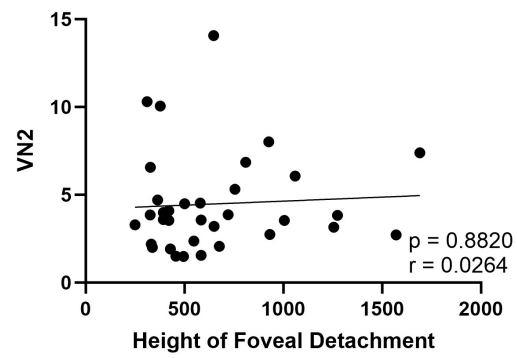
(II) VN2 FC *vs.* duration of retinal detachment: $r=-0.1847$, $P=0.2477$.



(III) VN1 FC *vs.* height of foveal detachment: $r=0.0864$, $P=0.6273$.



(IV) VN2 FC *vs.* height of foveal detachment: $r=0.0264$, $P=0.8820$.



Appendix 2

(I) Results of within-network FC after global signal regression.

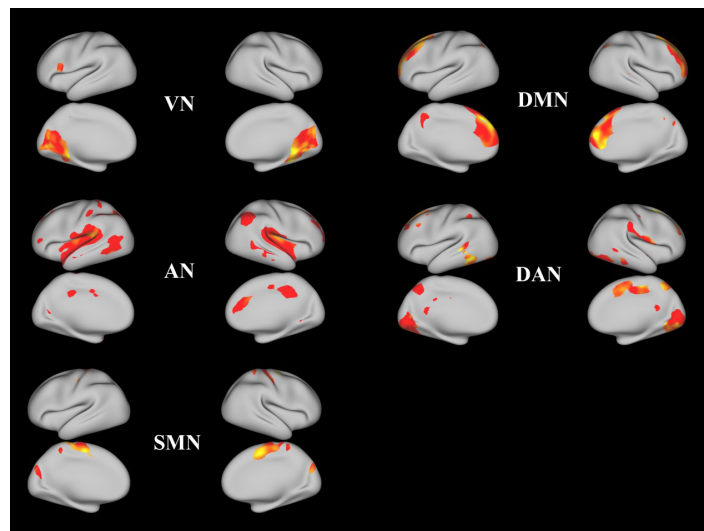


Figure S1 Surface distribution of brain regions showing significant within-network FC differences between RRD patients and HCs following global signal regression. AN, auditory network; DAN, dorsal attention network; DMN, default mode network; FC, functional connectivity; HCs, healthy controls; RRD, rhegmatogenous retinal detachment; SMN, sensorimotor network; VN, visual network.

(II) Results of between-network FNC after global signal regression:

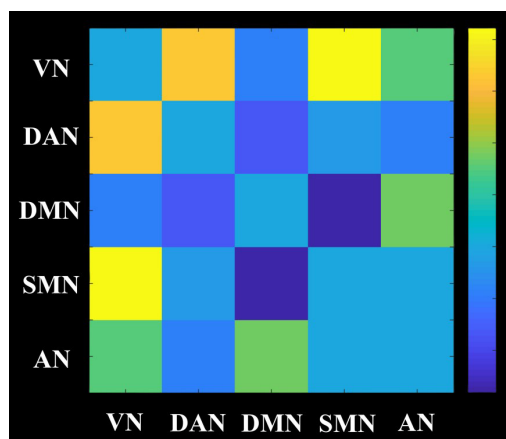


Figure S2 Between-group differences in FNC among five cortical resting-state networks following global signal regression. The matrix diagram illustrates the connectivity strength between pairs of networks. A significant increase in FNC was detected between the VN and SMN in the patient group compared to the healthy control group ($P=0.038$, $t=2.112$). AN, auditory network; DAN, dorsal attention network; DMN, default mode network; FNC, functional network connectivity; SMN, sensorimotor network; VN, visual network.

Table S1 FC changes within cortical resting-state networks between RRD patients and HCs following global signal regression

Brain networks	Brain regions	Vertices	MNI			<i>t</i> value
			X	Y	Z	
VN	R_Visual_22	3,375	12.884	−38.996	−2.224	2.742
DMN	R_Default_40	6,025	30.731	15.345	51.172	3.607
AN	R_Auditory_13	8,810	35.351	−17.456	18.419	1.676
DAN	L_DorsalAttn_14	5,860	−47.957	−52.392	−12.111	2.312
SMN	L_SMhand_9	26	−35.555	−22.033	43.413	1.932

AN, auditory network; DAN, dorsal attention network; DMN, default mode network; FC, functional connectivity; HCs, healthy controls; L, left; MNI, Montreal Neurological Institute; R, right; RRD, rhegmatogenous retinal detachment; SMN, sensorimotor network; VN, visual network.