INTRODUCTION
Exudative retinal detachments occur as a result of fluid flow alterations and breakdown of the blood retinal barrier which is seen in inflammatory, infectious and neoplastic disease states in addition to abnormal vasculature. Ischaemic central retinal vein occlusion (CRVO) is uncommonly associated with exudative detachments (1, 2). We report a case of exudative retinal detachments secondary to ischaemic CRVO which resolved with conservative management.

Case Report
A 64-year old hypertensive male was referred to hospital for a shallow left retinal detachment. He had a history of bilateral ischaemic CRVO sequentially in his right and left eye in 2001 and 2002 respectively and was known to have hypercholesterolaemia, hypertension, angina, cardiac arrhythmias and was a chronic smoker. He had undergone multiple sessions of panretinal photocoagulation bilaterally for neovascularization.

His visual acuity was 6/36 and 6/18 in the right and left eyes respectively when he presented with the exudative retinal detachment. He also had mild nuclear sclerosis and macular ischaemia bilaterally. There was no associated traction, retinal tears, holes or degeneration associated with this detachment. He had no signs of ocular inflammation. The detachment occurred in an area that had previously being lasered (Fig. 1).

He was managed conservatively. Two months post presentation, a new non-communicating exudative detachment developed in the inferior temporal retina just outside the temporal arcades. However, his vision remained unchanged as the macula was not involved in this detachment and he had well-developed collateral vessels (Fig. 2). The exudative detachments spontaneously resolved five months after presentation.

DISCUSSION
Exudative retinal detachment complicates 0.6% of all retinal vascular occlusions [central, hemispheric and branch] (1–3). The detachments are usually located in the posterior pole and are associated with marked retinal oedema. Collateral de-

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Spontaneous Resorption of Exudative Retinal Detachments Associated with Ischaemic Central Retinal Vein Occlusion
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Fig. 1: Black arrows indicate multiple laser burns within elevated retina. Red arrows indicate the edge of the exudative detachment. Note the associated resolving retinal haemorrhages and arteriosclerotic vessels.

Fig. 2: Red free photograph showing collateral circulation indicated by black arrows.

The fluid movement across the retinal pigment epithelium (RPE) due to active transport, oncotic forces and hydrostatic pressure maintains the attachment to the
neurosensory retina. Breakdown of these mechanisms from inflammation can result in exudative retinal detachments.

Weinberg et al reported five cases of exudative retinal detachment associated with CRVO, four of the five were treated with laser and resolved; however, all five cases had poor visual outcomes. Savant et al recently reported poor visual outcomes despite photocoagulation for exudative detachments following CRVO. This may occur due to neovascular glaucoma in 40–56% of cases, which signifies the presence of significant ischaemia (3, 4).

Laser treatment assists in resolution of retinal oedema due to the loss of the mechanical barrier produced by intact RPE which allows the oncotic forces of the choriocapillaries to diminish pre-existing subretinal fluid (5).

The index case had multiple risk factors for central retinal vein occlusion and compromised retinal circulation. It demonstrates that exudative detachments associated with vascular leakage due to ischaemic damage can spontaneously resolve with good result. This may be associated with the improved vascular flow from collateral circulation.

REFERENCES