

## Online Appendix Figure 1 Levels of retinopathy and maculopathy in the Liverpool Diabetic Eye Study

Level	Definition
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### Retinopathy

10	No retinopathy
20	Hemorrhages or microaneurysms < ETDRS standard photograph 2A †
30	Hemorrhages or microaneurysms ≥ ETDRS standard photograph 2A, and/or 1-6 cotton wool spots
40	Hemorrhages/ microaneurysms ≥ ETDRS standard photograph 2A and/or ≥ 6 cotton wool spots and/or 1 quadrant venous changes and/or IRMA < ETDRS standard photograph 8A
50	IRMA ≥ ETDRS standard photograph 8A and/or 2 or more quadrants venous changes and/or pre-retinal hemorrhage in absence of proliferation
60	Fibrovascular proliferation and/or proliferative retinopathy
70	Diabetic Retinopathy Study high risk characteristics
71	Tractional retinal detachment
72	No fundal view due to vitreous blood
90	Ungradeable due to any other reason e.g. media opacity

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### Maculopathy

0	No maculopathy
1	Questionable: < 50% certainty of presence of exudate
2	Exudate >1 disc diameter from fixation
3	Circinate ring of exudate within macula >1 disc area in size but not within 1 disc diameter of fixation
4	Exudates within 1 disc diameter of fixation and/or presence of clinically significant macular edema

8 Exudates due to other diseases e.g. vein occlusion, choroidal neovascularisation

90 Ungradeable

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† Definition of any diabetic retinopathy:  $\geq 1$  haemorrhage or microaneurysm in either eye. Flame shaped hemorrhages associated with hypertension are discounted. IRMA = intraretinal microvascular abnormalities. ETDRS = Early Treatment Diabetic Retinopathy Study.

Regression of retinopathy: retinopathy graded according to the lesions present. If new vessels have regressed completely after treatment the grader grades the lesions which remain. Peripheral scatter laser scars do not, in themselves, constitute proliferative retinopathy.