

EXECUTIVE SUMMARY

SCREENING FOR DIABETIC RETINOPATHY

HEALTH TECHNOLOGY ASSESSMENT UNIT MEDICAL DEVELOPMENT DIVISION MINISTRY OF HEALTH MOH/PAK

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INTRODUCTION

Diabetic retinopathy is a microvascular complication of both insulin dependent (type I) and non-insulin dependent (type II) diabetes. The diagnosis of diabetic retinopathy is through either examination of the fundus of the eye or by fundus photography.

OBJECTIVE

To determine the effectiveness, cost effectiveness and feasibility of screening for diabetic retinopathy.

RESULTS, CONCLUSIONS AND RECOMMENDATIONS

- 1. It is recommended that there be a screening programme for diabetic retinopathy for all diabetic patients.
- 2. Screening should include assessment of vision and retinal examination (ophthalmoscopy) with or without photography. Photography could be carried out using non-mydriatic fundus cameras (conventional or digital). The local cost of a conventional fundus camera is approximately RM 100, 000 per unit, while a digital camera would cost about RM 120, 000.
- 3. Initial screening be carried out by primary healthcare providers, followed by retinal photography by trained personnel (technicians, optometrists or ophthalmologists) technicians. Fundus photographs or fundal digital images should subsequently be read by trained readers or ophthalmologists.