

B Assessment of the eye health system for diabetic eye care services in Ormo

Service delivery

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
Education about diabetes and the eye	Yes	Yes	No
Education about managing diabetes	No	Yes	Not actively
Screening for diabetes	In all health centres	Yes	Yes - only for high risk cases
Diagnosis of sight threatening diabetic retinopathy (STDR)	Retinal imaging in two health centres	No - symptomatic cases referred to eye clinic	Opportunistic. Long waiting time - over 8 weeks for an appointment.
Treatment for STDR <ul style="list-style-type: none"> • Laser treatment • AntiVEGF injections • Vitreoretinal (VR) surgery 	Only referral	Only referral	Yes - lasers and antiVEGF. VR surgery - referred to national level

Human resources

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
Category of health professional available to care for people with diabetes	Primary health workers, nurses	Nurses, endocrinologists, physicians	Ophthalmologists, nurses, ophthalmic clinical officers (OCOs)
Trained to educate people with diabetes about eye complications	No except in two health centres	Inadequate	Yes
Trained to undertake diabetic retinopathy (DR) screening/grading	Nurse screener/grader in two health centres	None	Opportunistic screening by ophthalmologists
Continuing training opportunities for DR screening	Largely not available	None	Through external non-governmental organisation (NGO) partner.

Technology

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
Biomedical tests <ul style="list-style-type: none"> HbA1C Blood glucose Blood pressure 	Blood glucose, blood pressure	Available – blood glucose and HbA1C Blood pressure	Available – blood glucose and HbA1C
Ophthalmic/retinal examination <ul style="list-style-type: none"> Slitlamp Direct ophthalmoscope Retinal imaging 	Retinal imaging in 2 centres	None	Slitlamp Direct ophthalmoscope Retinal imaging
Treatment options <ul style="list-style-type: none"> Laser treatment AntiVEGF injections Vitreoretinal (VR) surgery 	None	None	2 lasers. Anti-VEGF (sometimes) VR only in capital city

Health information management systems

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
Database of people with diabetes <ul style="list-style-type: none"> None Paper Electronic 	Paper form in 2 health centres	Paper	Paper
Information recorded in databases <ul style="list-style-type: none"> Risk factors Eye examinations Level of DR Follow up 	Level of DR in 2 health centres	Risk factors Follow up	Risk factors Eye examinations Level of DR Follow up
Available call and recall <ul style="list-style-type: none"> None Systematic Ad hoc mHealth messaging 	None	None	None
Statistics collected and monitored <ul style="list-style-type: none"> Numbers screened Number referred to eye clinic Numbers treated for STDR Numbers not returning 	Numbers screened Number referred to eye clinic	Number referred to eye clinic	Numbers screened Number referred to eye clinic Numbers treated for STDR

Nationally agreed indicators <ul style="list-style-type: none"> • None • Number of STDR cases referred • Number of patients recalled for screening at regular intervals. 	None	None	None
Communications methods with patients <ul style="list-style-type: none"> • Personal record books, • Information cards • mHealth: text messaging reminders using mobile phones 	Personal record books	Personal record books	Personal record books

Leadership and governance

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
Main stakeholders in diabetes and DR services <ul style="list-style-type: none"> • Government • INGO 	Government INGO	Government	Government INGO
Leadership for DR services <ul style="list-style-type: none"> • Yes / no / clinical lead 	No	No	Clinician lead
Diabetes <ul style="list-style-type: none"> • As a priority • Has a national plan • Programme with coverage 	As a priority	As a priority	As a priority
Guidelines for DR management <ul style="list-style-type: none"> • None • Formulated but not used • Available and followed occasionally • Available and fully implemented 	Available and followed occasionally	Available and followed occasionally	Available and followed occasionally

Finances

Action	District health centres	Diabetes clinics	Eye clinics (public and private)
DR screening	100% NGO funded in 2 health centres	-	80% out of pocket for patient 20% Government subsidy
Laser treatment	-	-	80% out of pocket for patient 20% Government subsidy
Anti-VEGF	-	-	80% out of pocket for patient 20% Government subsidy