

Prognostic factors for a change in eye health or vision: A rapid review

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Background

The general public are advised to have regular routine eye examinations to check their vision and ocular health; however **current UK guidance on how often to have eye examinations** (issued in 2002) is **not evidence-based**.

Aim

To provide an evidence base that provides **updated guidance on recall intervals** for Wales.

Evidence Base



2

Systematic reviews

9

Prospective cohort studies

3

Respective cohort studies

2

Longitudinal studies

2

Case-controlled studies

1

Cross-sectional study

Studies included from 2011 - 2023.

Key Prognostic Factors Identified



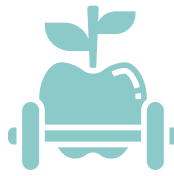
Demographic

e.g. age, sex,
ethnicity,
household net
worth



Ocular

e.g. intraocular
pressure,
family history
of glaucoma



Lifestyle / Behaviour

e.g. diet,
alcohol intake,
smoking



Systemic

e.g. hyper-
tension,
heart disease,
cholesterol



**Increased
length of time
between eye
examinations**

Study Findings

The **level of certainty for all prognostic factors is low** as there was generally only one study reporting for each individual outcome.

Studies were often **performed in specific populations**, meaning the **results cannot be applied to the general population**, particularly due to low study numbers per outcome.



Only two of the
studies reviewed
took place in the
UK

<40

Lack of evidence
relating to the
under 40s



Insufficient data to
make decisions
regarding future
provision of care

Research Implications and Evidence Gaps

This review should be used to **identify key prognostic factors for targeted research**.

Future research should be **narrower in focus to ensure usability**.

There are **large amounts of evidence on prevalence and prognostic factors for prevalent conditions, which did not meet the inclusion criteria** of this rapid review which looked at incident or changing conditions.