

QUESTION

Should medications vs. laser treatment be used for people with diabetic retinopathy in Friedreich ataxia?	
POPULATION:	people with diabetic retinopathy in Friedreich ataxia
INTERVENTION:	medications
COMPARISON:	laser treatment
MAIN OUTCOMES:	Visual acuity; Side effects;
BACKGROUND:	

ASSESSMENT

Problem		
Is the problem a priority?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input checked="" type="radio"/> Yes <input type="radio"/> Varies <input type="radio"/> Don't know 	<p>Incidence of diabetic retinopathy in FRDA unknown.</p>	<p>The Friedreich's ataxia Clinical Management Guideline Patient and Parent Advisory Panel were interviewed on the consequences, urgency and priority of the topic.</p> <p>2/7 indicated vision disturbance was probably serious, 4/7 indicated vision disturbance was serious, 1/7 indicated didn't know if serious.</p> <p>3/7 indicated vision disturbance was probably urgent, 3/7 indicated probably urgent, 1/7 indicated didn't know if urgent.</p> <p>3/7 indicated vision disturbance was probably a priority, 3/7 indicated priority, 1/7 indicated didn't know if a priority. (Aug 2020).</p>
Desirable Effects		
How substantial are the desirable anticipated effects?		
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Trivial <input type="radio"/> Small <input type="radio"/> Moderate <input type="radio"/> Large <input type="radio"/> Varies <input checked="" type="radio"/> Don't know 	<p>A search of three databases (CENTRAL, MEDLINE, EMBASE) identified no randomized, non-randomized controlled, cohort and case studies published from 2014 through to 03 July 2020. No further published evidence meeting the search criteria was identified in the Consensus Clinical Management Guidelines for Friedreich's ataxia, 2014.</p>	

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Large ○ Moderate ○ Small ○ Trivial ○ Varies ● Don't know 	<p>A search of three databases (CENTRAL, MEDLINE, EMBASE) identified no randomized, non-randomized controlled, cohort and case studies published from 2014 through to 03 July 2020. No further published evidence meeting the search criteria was identified in the Consensus Clinical Management Guidelines for Friedreich's ataxia, 2014.</p>	

Certainty of evidence

What is the overall certainty of the evidence of effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> ○ Very low ○ Low ○ Moderate ○ High ● No included studies 	<p>No published evidence.</p>	

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS									
<ul style="list-style-type: none"> ○ Important uncertainty or variability ○ Possibly important uncertainty or variability ● Probably no important uncertainty or variability ○ No important uncertainty or variability 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Outcomes</th> <th style="width: 33%;">Importance</th> <th style="width: 33%;">Certainty of the evidence (GRADE)</th> </tr> </thead> <tbody> <tr> <td>Visual acuity - not measured</td> <td>IMPORTANT^a</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Side effects - not measured</td> <td>IMPORTANT^a</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> <p>a. Identified as critical (2/6), important (3/6) and requiring more information</p>	Outcomes	Importance	Certainty of the evidence (GRADE)	Visual acuity - not measured	IMPORTANT ^a	-	Side effects - not measured	IMPORTANT ^a	-	
Outcomes	Importance	Certainty of the evidence (GRADE)									
Visual acuity - not measured	IMPORTANT ^a	-									
Side effects - not measured	IMPORTANT ^a	-									

	(1/6) by people with FA and critical by expert authors on the topic.	
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Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> Favors the comparison <input type="radio"/> Probably favors the comparison <input type="radio"/> Does not favor either the intervention or the comparison <input type="radio"/> Probably favors the intervention <input type="radio"/> Favors the intervention <input type="radio"/> Varies <input checked="" type="radio"/> Don't know 	No published evidence.	

Acceptability

Is the intervention acceptable to key stakeholders?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
<ul style="list-style-type: none"> <input type="radio"/> No <input type="radio"/> Probably no <input type="radio"/> Probably yes <input type="radio"/> Yes <input checked="" type="radio"/> Varies <input type="radio"/> Don't know 	No published evidence.	<p>The Friedreich's ataxia Clinical Management Guideline Patient and Parent Advisory Panel were asked if the intervention was acceptable (weighing up the balance between benefits, harms and costs).</p> <p>1/5 indicated medications for people with diabetic neuropathy were probably reasonable, 2/5 indicated reasonable, 2/5 indicated didn't know if reasonable. (Aug 2020).</p>

SUMMARY OF JUDGEMENTS

PROBLEM	JUDGEMENT						
	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies

JUDGEMENT							
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the intervention <input type="radio"/>	Conditional recommendation against the intervention <input type="radio"/>	Conditional recommendation for either the intervention or the comparison <input checked="" type="radio"/>	Conditional recommendation for the intervention <input type="radio"/>	Strong recommendation for the intervention <input type="radio"/>
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CONCLUSIONS

Recommendation

We suggest standard treatments for diabetic retinopathy be used as appropriate in individuals with Friedreich ataxia. There is insufficient evidence to recommend the use of medications over laser treatment for diabetic retinopathy in Friedreich ataxia.

Justification

There are no published studies supporting the use of medications or laser therapy in the management of diabetic retinopathy in Friedreich ataxia.

Subgroup considerations

This recommendation is for individuals with Friedreich ataxia with diabetic retinopathy.

Research priorities

Requirement to establish incidence of diabetic retinopathy in individuals with FRDA and the best management options.