



Evidence Implementation Training Program (EITP)

**Pre-operative education in patients undergoing
surgical procedures in ophthalmology settings**

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Audit Question:

What is the compliance with the best evidence-based practice in regards to provide education and information among patients who are treated with intravitreal anti-VEGF injections in the National Health Treatment Program of Neovascular Age-Related Macular Degeneration?

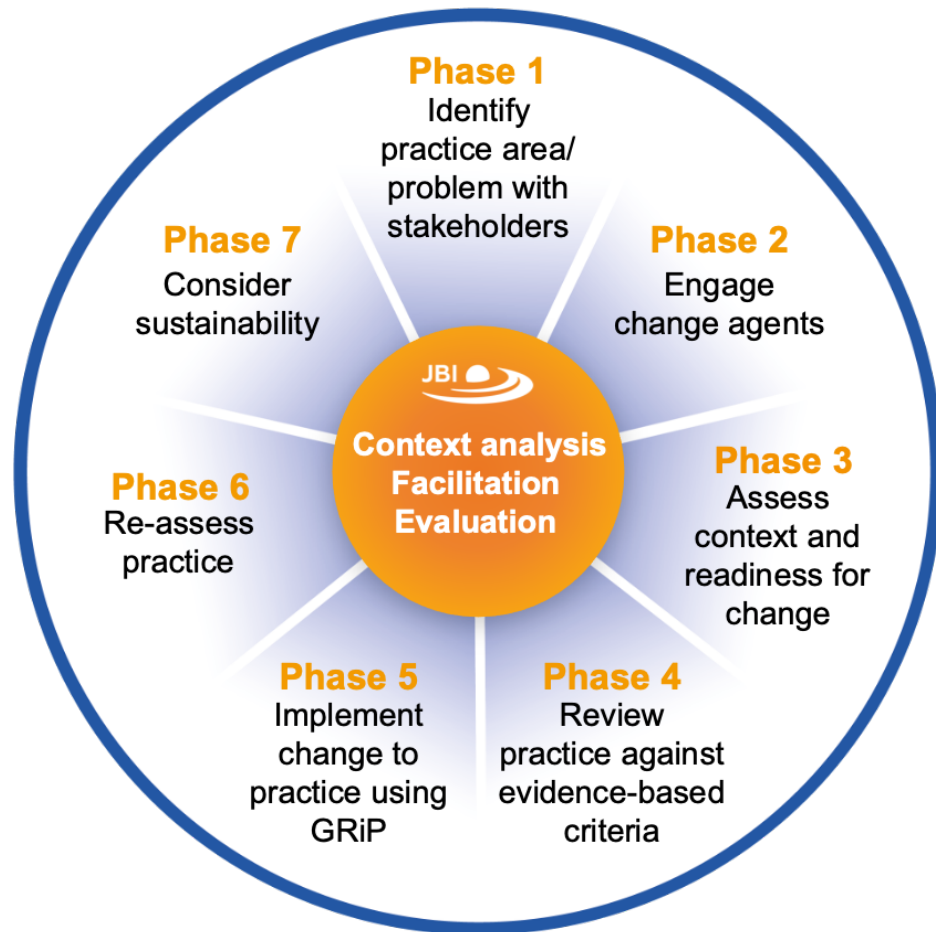
- Problem: Not all patients receive unified information about the diagnosis itself, assessment the procedure for the whole treatment process, education before the surgery, the surgical procedure, terms of the treatment, process of recovery and and necessary follow-up. The contents of the information provided depends on the health care providers.
- Evaluation: clinical audit
- Setting: The Department of Ophthalmology and Ocular Oncology of University Hospital (Cracow, Poland)
- Stakeholders: 9 staff members (head of the ward, team leader, 7 medical doctors)

Aims and objectives

The main aim of this research is to check the compliance with best evidence-based practice in regards to provide pre-operative education and information who are treated with intravitreal anti-VEGF injections in the National Health Treatment Program of Neovascular Age-Related Macular Degeneration in The Department of Ophthalmology and Ocular Oncology of University Hospital

1. To check the compliance with best practice recommendation regarding pre-operative information given to the patients undergoing specific surgical procedure.
2. To identify the barriers and facilitators to providing structured pre-operative information and education to those patients.
3. Unify the way and the content the information and education is provided
4. Implement and structure the information that is given to this group of patients.
5. To check the compliance after introducing evidence-based practice recommendation regarding pre-operative information given to the patients undergoing specific surgical procedure

Methods: 7 phases of Evidence Implementation



Pre-planning:

Phase 1: Identifying practice area/problem with stakeholders

Phase 2: Engagement with change agents/project team

Baseline Assessment and Implementation Planning

Phase 3: Assessment of context and readiness for change

Phase 4: Review of practice against evidence-based criteria

Phase 5: Implementation of change using GRIP

Impact Evaluation and Sustainability

Phase 6: Re-assessment of practice

Phase 7: Sustainability Interventions

Pre-planning

- Phase 1: Identify practice area/problem with stakeholders
 - Problem: not unified education
 - 100 injections/month, 7 doctors in the team, always same questions from patients
 - The decision about this project came out from one of stakeholders
- Phase 2: Engage change agents/project team
 - 7 medical doctors in the team and team leader
 - Head of the department
 - One of key doctors persuaded the head of the department
 - Nurses refused to participate

Baseline Assessment and Implementation Planning

- Phase 3: Assessment of context and readiness for change
 - Whole team decided to unify education and prepare proper evidence-based paper information for the patients- team meeting
- Phase 4: Review of practice against evidence-based criteria
 - Pilot of audit criteria
 - Baseline data collection, including what data, which sources, how identify compliance, and ethics in data collection (anonymity, confidentiality, appropriate data storage).
 - Bioethics Committee approval

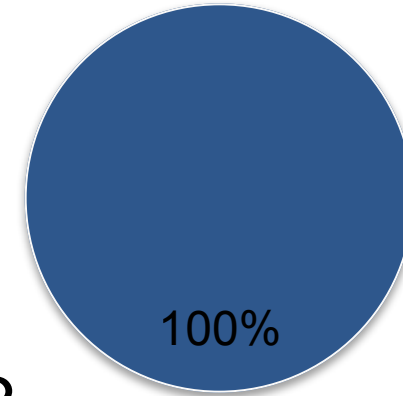
Phase 4: Review of practice against evidence-based criteria

Audit criterion	Sample	Method used to measure percentage compliance with best practice
<p>1. Patients undergoing intravitreal injections receive pre-operative education</p> <p>2. The preoperative education includes at minimum: information about diagnosis, the assessment the procedure for the whole treatment process, education before the surgery, the surgical procedure, requirements of the treatment and what will happen at the end of the treatment</p>	<ul style="list-style-type: none"> • Baseline audit: 7 medical doctors (team) and 22 patients medical records • Follow-up audit: 6 medical doctors and 22 patients medical records 	<ul style="list-style-type: none"> • Questionnaire for doctors with 2 questions: <ol style="list-style-type: none"> 1. Do You provide pre-operative education? 2. What content do You mention (open question)? (Full information - 6 points) • Medical records - check whether the education was provided or not

Results: Baseline audit -questionnaire

● YES ● NO

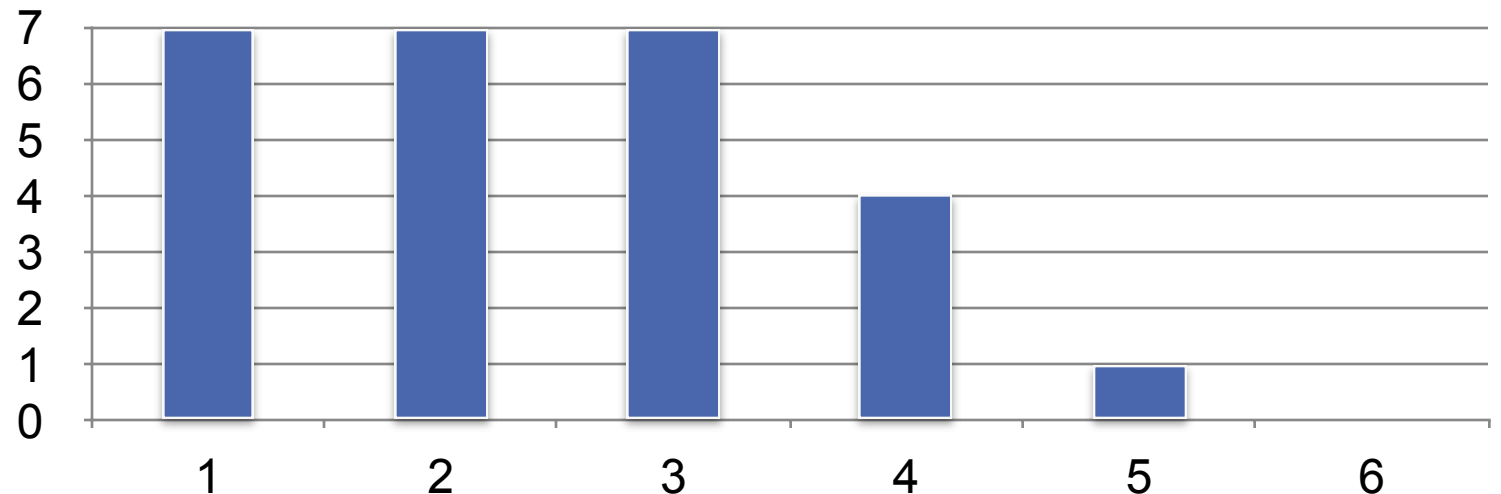
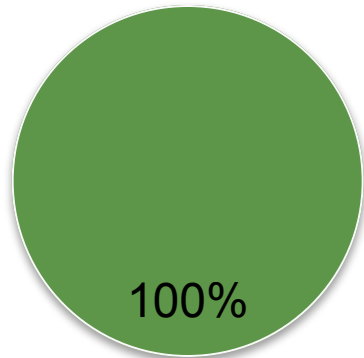
1. Do You provide pre-operative education?



2. What content do You mention (open question)?

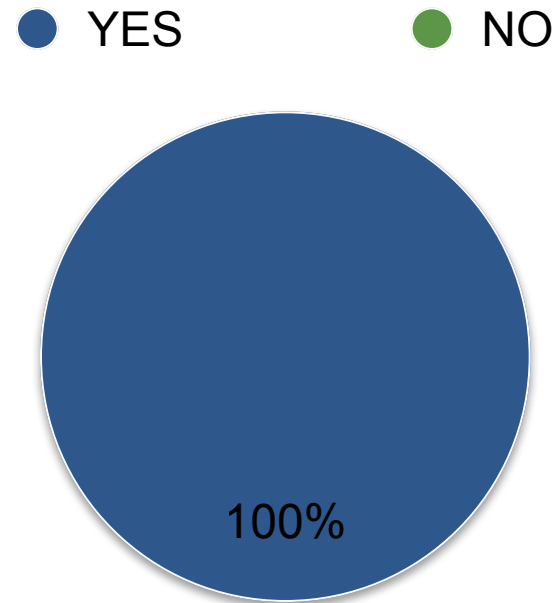
The preoperative education includes at minimum (6): 1.information about diagnosis, 2.the assessment the procedure for the whole treatment process, 3.education before the surgery, 4.the surgical procedure, 5.requirements of the treatment and 6.what will happen at the end of the treatment

● YES ● NO



Results: Baseline audit -patients records

1. Has patient been provided with pre-operative education (22 medical records)?



Baseline Assessment and Implementation Planning

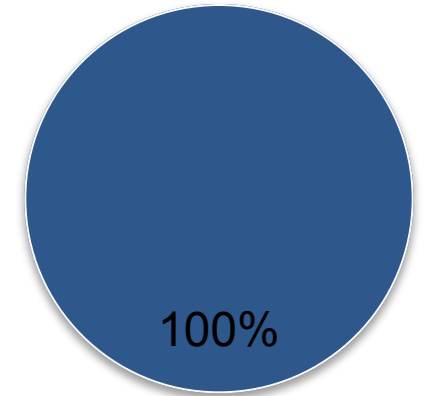
- Phase 5: Implementation of change using GRiP

Barrier	Strategy	Resources	Outcomes
<ul style="list-style-type: none"> Lack of standardized documentation 	<ul style="list-style-type: none"> Standardized documentation development 	<ul style="list-style-type: none"> Modification of the documents which were already in use 	<ul style="list-style-type: none"> Development of educational one paper information which has been distributed to each patient
<ul style="list-style-type: none"> Lack of professional support 	<ul style="list-style-type: none"> Get support from the head Find „the gate-keeper” 	<ul style="list-style-type: none"> Most qualified team participant influenced the head of the department 	<ul style="list-style-type: none"> The head of the department agreed on the project and influenced others to implement change
<ul style="list-style-type: none"> Rotation of the residents 	<ul style="list-style-type: none"> Focus on the stable workers Find „the gate-keeper” 	<ul style="list-style-type: none"> Meetings with team participants Online connection between team participants 5 team members were stable 	<ul style="list-style-type: none"> Stable workers were responsible for implementation and shared it with new workers
<ul style="list-style-type: none"> Lack of time 	<ul style="list-style-type: none"> Limitation and reduction of not necessary paper documentation 	<ul style="list-style-type: none"> Shared responsibilities The head of the department 	<ul style="list-style-type: none"> Due to one document each doctor saved time for education
<ul style="list-style-type: none"> Too much of paper documentation 	<ul style="list-style-type: none"> Limitation and reduction of not necessary paper documentation Standardized documentation development 	<ul style="list-style-type: none"> Modification of the documents which were already in use 	<ul style="list-style-type: none"> Development of educational one paper information

Follow-up audit -questionnaire

1. Do You provide pre-operative education?

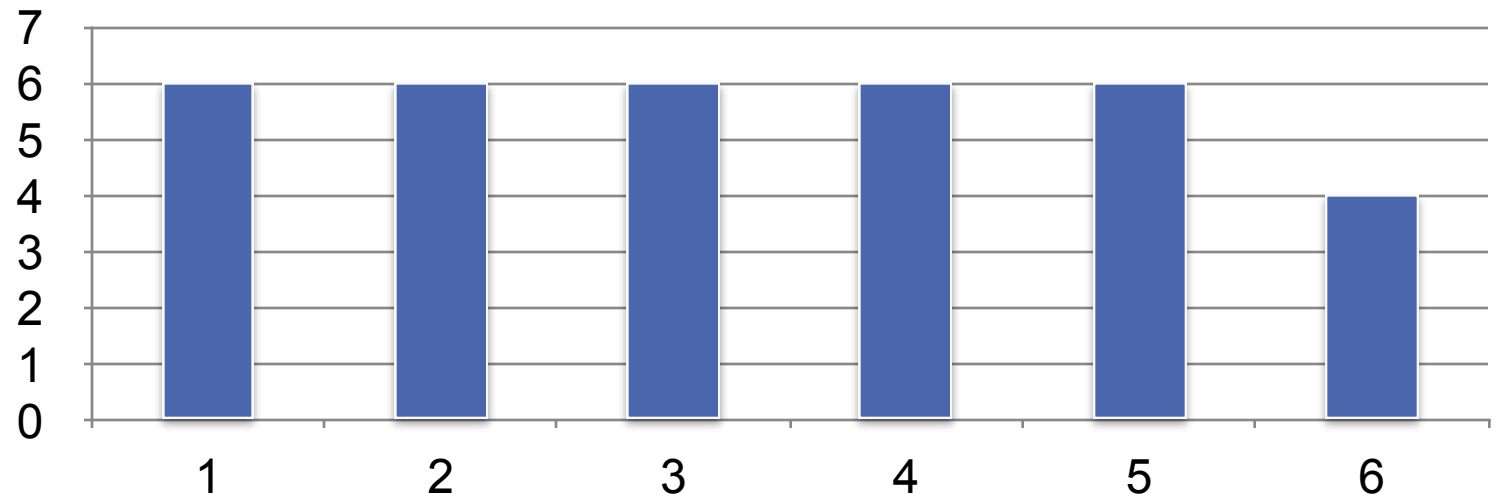
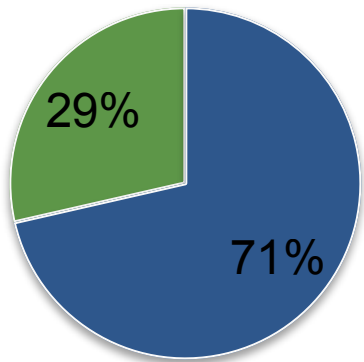
● YES ● NO



2. What content do You mention (open question)?

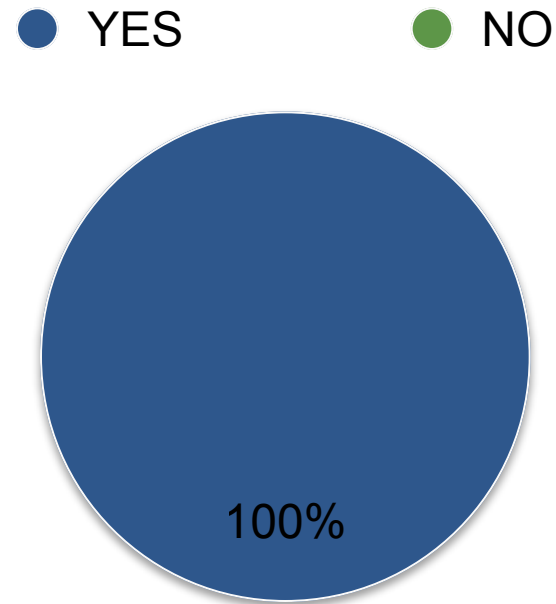
The preoperative education includes at minimum (6): 1.information about diagnosis, 2.the assessment the procedure for the whole treatment process, 3.education before the surgery, 4.the surgical procedure, 5.requirements of the treatment and 6.what will happen at the end of the treatment

● YES ● NO



Follow-up audit -patients records

1. Has patient been provided with pre-operative education (22 medical records)?



Discussion

- 1 medical doctor drop out
- Small sample - problem with new inclusions to the NHTP in the whole Hospital
- Not enough evidence in this area - adapted education management from the topic of cataract surgery
- Not all team provide information about what will happen at the end of the treatment —> exclusion from the NHTP

Conculsion

- Patients receive unified information and are provided with new evidence-based document to take home with all pre-operative informations