

## Five categories of factors influence the use and de-implementation of low-value care

Augustsson H, Ingvarsson S, Nilsen P, von Thiele Schwarz U, Muli I, Dervish J, et al. [Determinants for the use and de-implementation of low-value care in health care: A scoping review](#). Implementation Science Communications. 2021;2:13.

### What is the context of this review?

- The use of low-value care, which are healthcare practices with little or no benefit to patients, is a widespread problem both for individuals and health systems.
- Despite efforts like the Choosing Wisely campaign identifying practices that are considered low-value care, the problem persists.
- A review is necessary to understand the facilitators and challenges of de-implementing low-value care.

### Box 1: Coverage of OHT building blocks

This review addresses [building block #8](#):

- 1) defined patient population
- 2) in-scope services
- 3) patient partnership and community engagement
- 4) patient care and experience
- 5) digital health
- 6) leadership, accountability and governance
- 7) funding and incentive structure
- 8) performance measurement, quality improvement, and continuous learning (domain 53 – performance measurement across the quadruple aim and across sectors)**

### What questions are being addressed?

- What factors influence the use of low-value care?
- What factors influence the de-implementation of low-value care?

### How was the review done?

- The authors conducted extensive searches in electronic databases and trial registries. A total of 6,570 documents were initially identified, 101 of which were included in the final review after assessing their eligibility.
- Of those, 92 studies focused on factors influencing the use of low-value care and 9 studies focused on factors influencing the de-implementation of low-value care.

### How up to date is this review?

- The authors searched for studies published between January 2013 and June 2018.

### What are the main results of the review?

- The authors identified a series of factors that influence both the use and de-implementation of

low-value care. These factors were grouped into five categories: 1) the patients; 2) the professionals, 3) the outer and inner contexts, 4) the processes of managing low-value care, and 5) the evidence and practices related to low-value care (see table 1 below).

- Organizations must consider determinants at different levels when attempting to de-implement low-value care. Strategies only targeting on category of factors may not be sufficient.

**Table 1. Factors influencing the use and de-implementation of low-value care**

Factors	How they determine the <b>use</b> of low-value care	How they affect <b>de-implementing</b> low-value care
Patients	<ul style="list-style-type: none"> <li>• Patients' characteristics (age, gender, ethnicity, and socio-economic status), their health conditions (severity of illness), their expectations, and expectations from relatives can influence the use of low-value care</li> </ul>	<ul style="list-style-type: none"> <li>• Expectations from patients, requests for tests and treatment and their preferences were all barriers to de-implementing low-value care</li> <li>• Patient knowledge can help or hinder de-implementation</li> </ul>
Professionals	<ul style="list-style-type: none"> <li>• Age, gender, medical specialty, professional training, personality, knowledge (more knowledge protected against use of low-value care), expectations, attitudes, and behaviours (fear of malpractice and liability)</li> <li>• Cost-consciousness and discussing low-value care were linked to lower use of low-value care</li> </ul>	<ul style="list-style-type: none"> <li>• Expectations and behaviours of professionals can lead to resistance to change or lack of interest in saving money which hinders de-implementation</li> <li>• A gap in knowledge about the use of low-value care or forgetting to re-assess patient's eligibility for use can hinder the de-implementation of low-value care</li> </ul>
Outer and inner contexts	<ul style="list-style-type: none"> <li>• Outer contexts refer to the geographical contexts of healthcare settings (location, economy, policy and political support)</li> <li>• Inner contexts refer to the structural and social environment of the healthcare settings (organizational structures)</li> </ul>	<ul style="list-style-type: none"> <li>• Policy and political support: <ul style="list-style-type: none"> <li>○ clear reason for change help de-implementation</li> <li>○ a weak political willingness can hinder de-implementation</li> </ul> </li> <li>• Setting, culture, and care process either help or hinder de-implementation</li> </ul>
Processes for managing low-value care	<ul style="list-style-type: none"> <li>• Strategies used to limit the use of low-value care (for example, communication with patients and relatives) proved to be effective</li> </ul>	<ul style="list-style-type: none"> <li>• Strength of leadership, communication and resources can either hinder or help de-implementation</li> </ul>
Evidence related to low-value care	<ul style="list-style-type: none"> <li>• Conflicting guidelines and beliefs about the effectiveness of low-value care led to it being used more often</li> </ul>	<ul style="list-style-type: none"> <li>• A lack of alternative practices to low-value care, or a lack of reliable and available information on safety, effectiveness, and costs are barriers to de-implementation</li> </ul>

### How confident are we in the results?

- This is a recent and moderate-quality review with an AMSTAR score of 5/9

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