## SUBSTITUTING MEDICINES RESPONSIBLY

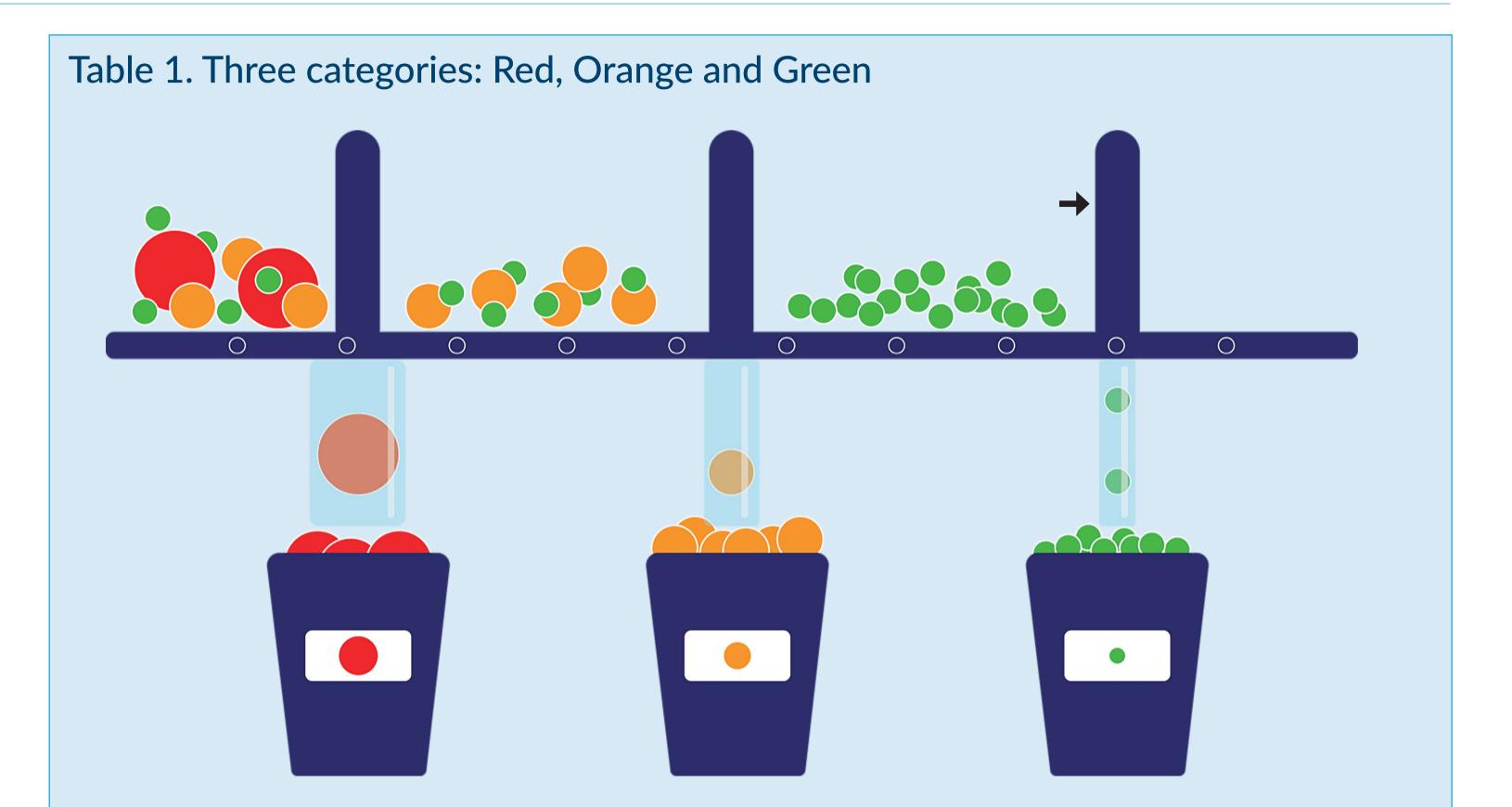
### A MULTIPARTY AGREEMENT FOR PATIENTS, PRESCRIBERS, PHARMACISTS AND HEALTH INSURERS FOR SUBSTITUTION OF MEDICINES IN THE NETHERLANDS.

Reinier Bax, Sylvia Blind, Annemieke Horikx, Rogier Larik, Henk Vermaat, Claudia van Waardhuizen Royal Dutch Pharmacists Association (KNMP), The Hague, Netherlands

Contact: h.vermaat@knmp.nl

#### BACKGROUND

Substitution of medicines (with same active ingredient, dosage, administration form and release pattern) can have negative consequences for safe, effective and efficient use of medicines. Moreover, medicine substitution can confuse patients and can be source of discussion with health care professionals and/or health insurers. In the Netherlands national organisations of patients, general practitioners and medical specialists, pharmacists and health insurers\* initiated a series of workshops.



#### AIMS

The aim of the workshops was to clarify the role and responsibilities of patients, prescribers, pharmacists (hospital as well as community pharmacists) and health insurers in medicine substitution. To reach agreement over conditions for substitution in order to provide good, effective and efficient pharmaceutical patient care.

#### **METHOD**

Summer 2021 a series of workshops started addressing the following topics: which medicines should/should not be substituted; considerations and conditions for substitution of medicines; medicines with a device. Agreement was reached March 2022.

#### RESULTS

A guideline for substituting medicines responsibly including:

- 1 Three categories of medicines Red, Orange and Green [table 1]:
  - Red Category : the medicine cannot be substituted, unless not available;
  - Orange Category [table 2]: the medicine can be substituted,

Red Category	Orange Category	<b>Green Category</b>
Not to be substituted, unless not available.	Can be substituted, provided not contra indicated.	Can be substituted, unless contra indicated.
<ul> <li>Which: medicines with a narrow therapeutic index. Therapeutic window 5 or smaller. TV is TD50 (letal or toxic dose in 50% of the population/ED50 (effective dose in 50% of the population). If this quotient of a medicine is 5 of less, the medicine belongs to the Red Category.</li> <li>Number of medicines involved: 14</li> <li>Action: not be substituted, unless not available. If substitution is unavoidable special patient counselling is given.</li> <li>Note: if a patent expires, by exception a medicine can be substituted once.</li> </ul>	<ul> <li><u>Which:</u> medicines in combination with a therapeutic indication [table 2] which have a high clinical risk if not used or administered correctly.</li> <li>Number of medicines involved: 94, diagnosis involved: 18</li> <li><u>Action:</u> Check if substitution is contra indicated by patient's individual condition. If substitution is not possible, the prescriber will mark the prescription for a medicine with 'medical necessity'.</li> <li>If substitution is possible, special counselling is given.</li> </ul>	<ul> <li><u>Which:</u> all medicines not in the Red or Orange Category.</li> <li><u>Action:</u> In case substitution is contra indicated by patient's individual condition [table 3] the prescriber will mark the prescription for a medicine with 'medical necessity'.</li> <li>If substitution is possible information and patient counselling should be given.</li> </ul>

Table 2 Category Orange: Therapeutic indication in combination with active substance(s) which have a high clinical risk if not used or administered correctly.

Example: Heartfailure in combination with active substances.

Category Orange: therapeutic indications
Arrhythmia
Arrhythmia / heart failure
Arrhythmia / Hypertrophic obstructive cardiomyopathy
Asthma and COPD
Bipolar disorders
Epilepsy

Active substances Bisoprolol Bumtanide Carvedilol

- *provided* no contra indication by individual patient's condition [table 3] and special patient counselling is given;
- Green Category: the medicine can be substituted, unless contra indicated by individual patient's condition.
- 2 Condition for all three categories: in case of substituting medicines, information and patient counselling should be given by prescriber and/or pharmacist.
- 3 If substitution is not possible, the prescriber will mark the prescription for a medicine with 'medical necessity'.
- 4 Assessment of medical necessity is the responsibility of the prescriber, the pharmacist will dispense the medicine as prescribed.
- 5 Recipes with medical necessity are exempted from contracting policies of health insurers, with no malus for community pharmacists.

Myasthenia gravisNarcolepsyOncologyParkinson's diseasePsyochosis and manic episodesPulmonary hypertensionRheumatoid arthritis	Familial Mediterranean fever Gestational hypertension Graft vs host rejection prophylaxis Heart failure	Furosemide Isosorbide dinitrate Ivabradine Nebivolol
<ul> <li>Oncology</li> <li>Parkinson's disease</li> <li>Psyochosis and manic episodes</li> <li>Pulmonary hypertension</li> <li>Rheumatoid arthritis</li> </ul>		
Parkinson's disease Psyochosis and manic episodes Pulmonary hypertension Rheumatoid arthritis		
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Pulmonary hypertension Rheumatoid arthritis	Parkinson's disease	
Rheumatoid arthritis	Psyochosis and manic episodes	
	Pulmonary hypertension	
	Rheumatoid arthritis	
Thrombosis	Thrombosis	

# Table 3 Individual patient's condition1. Cognitive abilities6. Needle phobia2. Mental disorders involving anxiety, paranoia etc7. Visual problems3. Treatment for which strict intake schemes are obligatory8. Resorption problems4. Deglutition disorders9. Allergies / intolerance for certain excipients5. Limited hand strength10. Earlier reported intolerances

#### CONCLUSIONS

A multiparty agreement on the principle of substituting medicines, categories of medicines and terms for substitution and consequences of dispensing medicines with 'medical necessity'. Moreover, community pharmacists are generally acknowledged as health care professionals. No longer a malus for prescriptions with 'medical necessity' in contracts of pharmacists with health insurers.

\*) Organisations involved: Netherlands Patients Federation, Dutch Association of Medical Specialists, Dutch College of General Practitioners, National Association of General Practitioners, Royal Dutch Pharmacists as observer Association, Dutch Health Insurers, Common Eye consultancy and as observer the Ministry of Health, Welfare and Sport.



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