

## Supplementary material 1: Questionnaire

### Part 1: Experiences with low-value care

1. How often is low-value care delivered in the primary practice?
  1. Never
  2. Sometimes
  3. Frequently
  4. Often
  
2. Which 5 specific low-value care practices (referrals, laboratory diagnostics, medication prescriptions or imaging) do you think occur most frequently in general practice? Consider, for example, the prescription of antibiotics for upper respiratory tract infections.
  
3. What do you think are the most important reasons for GPs to provide low-value care? (enter up to 3 options) (multiple choices possible)
  0. Maintaining a good relationship with the patient
  0. Wanting to offer the patient something
  0. Clinical uncertainty
  0. Lack of knowledge
  0. Time pressure
  0. Fear of claims
  0. Action is routine
  0. It takes a lot of time to get in touch with a specialist
  0. Availability of diagnostic tools
  0. Other reason, namely... ..
  
4. Have you observed negative consequences for the patient (side effects, burden on the patient or complications) as a result of low-value care?
  1. No
  2. Yes, namely .....
  
5. I discuss the issue of low-value care with colleagues
  1. Never
  2. Sometimes
  3. Frequently
  4. Often
  
6. Are you actively trying to reduce low-value care?
  1. No
  2. Yes, namely by....

## Part 2 – Cases

### Cas2 1 – X-ray of the Lumbosacral spine for nonspecific low back pain without alarming symptoms

*Guideline Dutch GP Association Non-specific low back pain*

Additional examination: Imaging for non-specific low back pain is not recommended

1. In the past two weeks, how often have you ordered an X-ray of the Lumbosacral spine for patients with non-specific low back pain?

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**If 0, then go to question 3.**

2. What are the main reasons why you ordered an X-ray of the lumbosacral spine for patients with non-specific low back pain? (enter up to 3 options) (multiple choices possible)

- 0. Maintaining a good relationship with the patient
- 0. Wanting to offer the patient something
- 0. Clinical uncertainty
- 0. I do not agree with the recommendation
- 0. I was not aware of the recommendation
- 0. Applying for an x-ray is routine
- 0. Time pressure
- 0. Fear of claims
- 0. It takes a lot of time to get in touch with a specialist
- 0. Other reason, namely... ..

3. In the past two weeks, how often have patients with non-specific low back pain asked for an X-ray of the lumbosacral spine?

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4. How often do patients with non-specific low back pain who initially want imaging, agree with the proposal not to make an X-ray of the lumbosacral spine after explanation?

- 1. Never
- 2. Sometimes
- 3. Frequently
- 4. Often

5. What do you think is necessary for GPs to request less X-rays of the lumbosacral spine for patients with non-specific low back pain?

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**Case 2 –Vitamin B12 tests***Guideline Dutch GP association – vitamin B<sub>12</sub>-tests*

The GP may consider ordering a vitamin B12 test in case of:

- anemia
  - neurological symptoms (in particular paraesthesias and ataxia)
  - deficient nutrition and diseases that lead to reduced absorption of vitamin B12.
- (Routine) ordering of vitamin B12 tests with long-term use of metformin, proton pump inhibitors, cognitive impairment and general complaints such as fatigue or muscle weakness without other indications for a vitamin B12 deficiency is not recommended

1. In the past two weeks, how often have you ordered a vitamin B12 test for patients for whom this is not recommended in the guideline?

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**If 0 times, then go to question 3**

2. What are the main reasons why you ordered a vitamin B12 test that is not recommended by the guideline? (enter up to 3 options) (multiple choices possible)

- Maintaining a good relationship with the patient
- Wanting to offer the patient something
- Clinical uncertainty
- I do not agree with the recommendation
- I was not aware of the recommendation
- Time pressure
- Fear of claims
- A vitamin B12 determination is routine
- It takes a lot of time to get in touch with a specialist
- Other reason, namely... ..

3. How often in the past two weeks have patients asked for a vitamin B12 test?

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4. After explanation, how often do patients agree with refraining from a vitamin B12 test?

- 1. Rarely
- 2. Sometimes
- 3. Regularly
- 4. Often

5. What do you think is needed so that GPs order less vitamin B12 tests?

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### PART 3 – Characteristics general practitioner

1. What is your age?

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2. What is your gender?

1. Male
2. Female

3. What is your work situation?

1. Practice owner
2. Employed by another GP
3. Acting GP

4. Which type of practice do you work for?

1. Solo practice
2. Duo practice
3. Group practice
4. Health center

5. How many years have you been a practicing doctor?

1. <5 years
2. 5-10 years
3. 10-20 years
4. 20+ years

6. What is present in the practice where you work?

0. Blood tests
0. Rapid testing (eg CRP)
0. Echo
0. Spirometry
0. Pharmacy
0. ECG