Mandatory notification can be a useful tool to support infectious disease prevention and control. Guidelines are needed to help policymakers decide whether mandatory notification of an infectious disease is appropriate. We developed a decision aid, based on a range of criteria previously used in the Netherlands or in other regions to help decide whether to make a disease notifiable. Criteria were categorised as being effective, feasible and necessary with regard to the relevance of mandatory notification. Expert panels piloted the decision aid. Here we illustrate its use for three diseases (Vibrio vulnificus infection, chronic Q fever and dengue fever) for which mandatory notification was requested. For dengue fever, the expert panel advised mandatory notification; for V. vulnificus infection and chronic Q fever, the expert panel concluded that mandatory notification was not (yet) justified. Use of the decision aid led to a structured, transparent decision making process and a thorough assessment of the advantages and disadvantages of mandatory notification of these diseases. It also helped identify knowledge gaps that required further research before a decision could be made. We therefore recommend use of this aid for public health policy making.

Introduction

Surveillance is critical to effective infectious disease control, and mandatory notification is one of its key components [1-3]. In the Netherlands and other western European countries, reporting of infectious diseases such as smallpox, tuberculosis and cholera has been mandatory by law since the end of the 19th century [1,4,5]. At present, countries are obliged, under the International Health Regulations (IHR) established by the World Health Organization (WHO), to notify to the WHO certain infectious diseases (e.g. a single case of poliomyelitis due to wild type polio virus) or certain outbreaks of diseases (e.g. an unexpected increase of dengue fever) that may constitute a public health emergency of international concern (PHEIC) [6]. Only the WHO has the authority to decide whether or not a very serious event constitutes a PHEIC. The European Union also requires that Member States report information on 52 infectious diseases to the European Centre for Disease Prevention and Control (ECDC) [7]. The basis of the current list of statutorily notifiable infectious diseases in the Netherlands was established at the end of 2006 by the Ministry of Health (MoH), based on advice from the National Institute for Public Health and the Environment (RIVM) [8]. After 2006, only a few changes were made which were mainly due to international outbreaks (e.g. Middle East respiratory syndrome and pandemic influenza). In the Netherlands, physicians and heads of laboratories are required to report information about cases of specified infectious diseases or outbreaks of any diseases to the public health services. Since December 2008, 43 diseases and a group of conditions (a cluster of MRSA infections in the community, a cluster of food-borne infection or any other severe infectious disease in the community) have been mandatorily notifiable in the Netherlands [9]. A notification requirement also exists for directors of facilities for vulnerable people (e.g. nursing homes and care facilities, day care centres and schools) but was not considered in this article. The collected information is used at local level to implement preventive and control measures, and at regional and national level to monitor trends in disease and to support the development
**Figure**

Decision tree for assessing whether an infectious disease or condition should be made notifiable.

- **Start**
  - **Is the disease explicitly indicated under the International Health Regulations?**
    - **No**
    - **Yes**
      - **Advise mandatory status**
  - **Yes**
    - **Is the disease endemic in the country / is there an increasing trend in bordering countries / is import relevant?**
      - **No**
      - **Yes**
        - **Is there a likelihood of substantial morbidity and/or could it cause capacity problems for hospitals or general practitioners?**
          - **No**
          - **Yes**
            - **Is source and contact tracing possible and are preventive measures or post-exposition prophylaxis evidence-based?**
              - **No**
              - **Yes**
                - **Is the information necessary for timely identification of derived risks to the population, such as failure of vaccines or malaria prophylaxis policy for travellers?**
                  - **No**
                  - **Yes**
                    - **Can the disease have international consequences other than indicated under the International Health Regulations?**
                      - **No**
                      - **Yes**
                        - **Don’t advise mandatory status**
  - **No**
    - **Is the workload for the Public Health Services proportional in relation to public health benefit?**
      - **No**
      - **Yes**
        - **Is the disease recognisable by means of clear clinical, microbiological and/or epidemiological criteria?**
          - **No**
          - **Yes**
            - **Is notification the only way to obtain the necessary information (subsidiary principle)?**
              - **No**
              - **Yes**
                - **Is the invasion of privacy of the individual proportional to the severity of disease?**
                  - **No**
                  - **Yes**
                    - **Don’t advise mandatory status**
            - **Don’t advise mandatory status**
        - **Don’t advise mandatory status**
    - **Don’t advise mandatory status**

Categories are marked in different colours:
- **International agreements**
- **Effectiveness**
- **Feasibility**
- **Necessity**

Consider the scope (time, place, population and type of pathogen), e.g. through a specific case definition.
and evaluation of control guidelines and policies such as vaccination programmes or guidelines for the use of prophylaxis [10].

Statutory notification of infectious diseases can be a powerful tool to identify and control (outbreaks of) infectious diseases if notification is received in a timely manner. Advantages of notification for public health need to be balanced against disadvantages such as an increased workload for health professionals and potential intrusion into the privacy of patients [11-13]. To the best of our knowledge, there is limited published literature on tools to support the assessment of whether or not to make a disease notifiable. We therefore developed a decision aid structured as a decision tree. In this article, we describe the development of this tool, and illustrate its use while assessing recent requests to make a disease notifiable.

Development of the decision aid

We first compiled an inventory of the criteria that had to be met for the current diseases and conditions to become notifiable under the Dutch Public Health Act and under European Commission Legislation on Communicable Diseases [6,7,9,14,15]. In addition, we looked at criteria formulated by the WHO to decide which diseases are notifiable under the IHR (Table 1, panels A to C) [6]. We also assessed criteria used by veterinary health professionals when they had to decide which infectious pathogens in animals most likely posed a threat to human health and therefore should be monitored [16]. In addition, we considered legal constraints on public health actions in the Netherlands, i.e. criteria that must be met in an effort to protect the rights of individuals under the Dutch constitution and the European Convention on Human Rights [17] while trying to control infectious diseases in the population. Finally, we added the four Dutch additional practical criteria concerning for example the feasibility of diagnosis and the required workload for professionals in the field (Table 1, panels D to F) [10].

Similar criteria were combined. We converted these criteria into questions that can be answered with Yes or No and placed them in three categories: effectiveness (E), feasibility (F) or necessity (N). This was done because mandatory notification consists of these pillars: (E) mandatory notification leads to effective and appropriate measures; (F) notification is feasible, e.g. physicians cooperate and symptoms are recognisable; and (N) mandatory notification is necessary, e.g. because the information can only be obtained via mandatory notification. We placed criteria from these three categories in a decision aid (Figure). The author group went through the categories in an iterative process, comparable with a Delphi process, to determine the sequence of the criteria.

Finally, we added a box at the end of the decision tree to consider the scope of notification in terms of time, place, population and pathogen. For example, mandatory notification can be in place for a limited period only or restricted to children of a certain age, a specific geographical region, or a particularly virulent subtype of a pathogen.

Piloting the decision aid

Expert panels were composed of between six and 10 experts in different disciplines with backgrounds from the laboratory or epidemiological and/or public health (policy). These expert groups piloted the decision aid by applying it to three diseases that were proposed for mandatory notification in the Netherlands: chronic Q fever, *Vibrio vulnificus* infection and dengue fever. Per disease, one expert panel was set up. The panel sessions were chaired by one of the authors (PB or EF) who guided the discussions box by box, taking note of the experts’ opinions. Per disease, one panel session was organised. During the discussion sessions, the different criteria were rated in an iterative process until consensus was reached. When consensus was not reached, for example because the necessary scientific knowledge was lacking, we continued to answer the questions of the decision aid in both directions (Yes and No). The debatable questions were further assessed by the expert panel to enable a final conclusion.

The following chapters summarise the decision making process for each of the three diseases.

Chronic Q fever (proposed in 2010)

Q fever is a zoonotic disease, caused by the bacterium *Coxiella burnetii*. In 1 to 3% of cases of acute Q fever, the infection may become chronic. Symptoms may occur months to 10 years after primary infection, even when this was asymptomatic. Chronic Q fever may cause an inflammation of the blood vessels and heart valves, sometimes leading to endocarditis or other serious complications, and in some cases death. The Netherlands has seen a large outbreak of Q fever with 3,523 human cases notified between 2007 and 2009 [18]. It is therefore expected that the number of chronic Q fever cases in the Netherlands will increase in the coming years. Because chronic Q fever is not notifiable, it will be difficult to identify the prevalence of chronic Q fever and hence the burden of disease in the Dutch population. People with an unrecognised chronic infection may pose a risk for transmission of *C. burnetii* through blood or organ donations. A formal request was made to make chronic Q fever a notifiable disease to improve surveillance. Acute Q fever has been a notifiable disease in the Netherlands since 1975 because this creates the possibility to prevent new infections by tracing and treating infected sources.

Source and contact tracing for each notification of chronic Q fever is hardly possible because of the long incubation period of the disease. More importantly, the assessment of the burden of disease in the population can be conducted through voluntary research and surveillance projects, for example in clinics that treat the majority of chronic Q fever patients. The experts
<table>
<thead>
<tr>
<th>Notifiable to</th>
<th>Criterion</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong> The Public Health Services under the Dutch Public Health Act 2008 [9]</td>
<td>1. The infectious disease derives from an open source that is difficult to control. Given the nature and infectivity of the infectious pathogen, (legal) measures must be taken to prevent its spread. AND/OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>A.</strong> The Public Health Services under the Dutch Public Health Act 2008 [9]</td>
<td>2. Notification is essential in order to prevent and/or control the infectious disease, and the necessary information cannot be obtained in any other way. AND/OR</td>
<td>N</td>
</tr>
<tr>
<td><strong>A.</strong> The Public Health Services under the Dutch Public Health Act 2008 [9]</td>
<td>3. Notification is important in order to detect risks to the public’s health, such as from the failure of vaccines in the National Immunization Programme. AND/OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>A.</strong> The Public Health Services under the Dutch Public Health Act 2008 [9]</td>
<td>4. The infectious disease may have international implications and should be reported to the WHO under the International Health Regulations.</td>
<td>N</td>
</tr>
<tr>
<td><strong>B.</strong> The ECDC [7]</td>
<td>1. Diseases that cause, or have the potential to cause, significant morbidity and/or mortality across the European Community, especially where the prevention of the diseases requires a global approach to coordination</td>
<td>E</td>
</tr>
<tr>
<td><strong>B.</strong> The ECDC [7]</td>
<td>2. Diseases where the exchange of information may provide early warning of threats to public health</td>
<td>E</td>
</tr>
<tr>
<td><strong>B.</strong> The ECDC [7]</td>
<td>3. Rare and serious diseases, which would not be recognised at a national level and where the pooling of data would allow hypothesis generation from a wider knowledge base</td>
<td>E/N</td>
</tr>
<tr>
<td><strong>B.</strong> The ECDC [7]</td>
<td>4. Diseases for which effective preventive measures are available with a protective health gain</td>
<td>E</td>
</tr>
<tr>
<td><strong>B.</strong> The ECDC [7]</td>
<td>5. Diseases for which a comparison by Member States would contribute to the evaluation of national and community programmes</td>
<td>E/N</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>1. A case of the following diseases is unusual or unexpected and may have serious public health impact and thus shall be notified: smallpox, poliomyelitis due to wild-type poliovirus, human influenza caused by a new subtype, severe acute respiratory syndrome (SARS). OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>2. Any event of potential international public health concern, including those of unknown causes or sources and those involving other events or diseases than those listed shall lead to utilisation of the algorithm under 4 below. AND/OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>3. An event involving the following diseases shall always lead to utilisation of the algorithm under 4 below because they have demonstrated the ability to cause serious public health impact and to spread rapidly internationally: cholera, pneumonic plague, yellow fever, viral haemorrhagic fevers (Ebola, Lassa, Marburg), West Nile fever, other diseases that are of special national or regional concern, e.g. dengue fever, Rift Valley fever and meningococcal disease.</td>
<td>E</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>4. Algorithm to determine the duty to notify a certain case: 4a. The public health impact of the event is serious. AND/OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>4b. The event is unusual or unexpected. OR</td>
<td>E</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>4c. There is a significant risk of international spread. AND</td>
<td>E/N</td>
</tr>
<tr>
<td><strong>C.</strong> The WHO under the International Health Regulations [6]</td>
<td>4d. There is a significant risk of international travel or trade restrictions.</td>
<td>E/N</td>
</tr>
<tr>
<td><strong>D.</strong> Veterinary criteria regarding zoonoses [16]</td>
<td>1. Probability of introduction into the Netherlands</td>
<td>E</td>
</tr>
<tr>
<td><strong>D.</strong> Veterinary criteria regarding zoonoses [16]</td>
<td>2. Possibility of animal-to-human transmission (zoonotic potential)</td>
<td>E</td>
</tr>
<tr>
<td><strong>D.</strong> Veterinary criteria regarding zoonoses [16]</td>
<td>3. Potential of human-to-human transmission</td>
<td>E</td>
</tr>
<tr>
<td><strong>D.</strong> Veterinary criteria regarding zoonoses [16]</td>
<td>4. Severity of the disease (mortality and morbidity) in humans and/or animals</td>
<td>E</td>
</tr>
<tr>
<td><strong>E.</strong> Legal criteria [14,17]</td>
<td>1. Infringement of the rights of the individual (information is reported to the Public Health Service) is only allowed if the information is proven to be effective to mitigate risks to others.</td>
<td>N</td>
</tr>
<tr>
<td><strong>E.</strong> Legal criteria [14,17]</td>
<td>2. Subsidiary principle: Infringement of the rights of the individual is only allowed if there is no other option to protect the health of others.</td>
<td>N</td>
</tr>
<tr>
<td><strong>E.</strong> Legal criteria [14,17]</td>
<td>3. Proportionality principle: Degree of infringement of the rights of the individual must be proportionate to the severity of the disease.</td>
<td>N</td>
</tr>
<tr>
<td><strong>F.</strong> Practical criteria [10]</td>
<td>1. Control measures must be possible.</td>
<td>E</td>
</tr>
<tr>
<td><strong>F.</strong> Practical criteria [10]</td>
<td>2. Workload for professionals must be proportionate to the health gains.</td>
<td>F</td>
</tr>
<tr>
<td><strong>F.</strong> Practical criteria [10]</td>
<td>3. The infectious disease must be clearly recognisable to the medical professional through explicit clinical, microbiological and/or epidemiological criteria.</td>
<td>F</td>
</tr>
<tr>
<td><strong>F.</strong> Practical criteria [10]</td>
<td>4. There is a real threat to public’s health, not a theoretical threat.</td>
<td>E</td>
</tr>
</tbody>
</table>

ECDC: European Centre for Disease Prevention and Control; E: effectiveness; F: feasibility; N: necessity; WHO: World Health Organization.
were of the opinion that mandatory notification will not advance prevention and control of chronic Q fever. The outcome of the decision aid for mandatory notification status was therefore a negative advice.

**Vibrio vulnificus infection (proposed in 2011)**

*V. vulnificus* is a bacterium found in raw fish and seawater. Human infections usually present as wound infections that may develop into necrotising fasciitis and sepsis, which have a mortality rate of more than 50% [19,20]. Infection with *V. vulnificus* have mainly been described in the United States, where it became a notifiable disease in 2007 because of the high mortality rate and an increase in the number of infected elderly people [21]. In the Netherlands, *V. vulnificus* is found on an increasing number of fish (eel) farms [21]. After a worker on an eel farm died, Dutch clinicians and researchers proposed mandatory notification because of the severity of the disease and to gain insight in the epidemiology of the disease in the Netherlands [21].

Clinical infections with *V. vulnificus* occur only sporadically in the Netherlands, especially because the Dutch climate is not warm enough for growth of these bacteria [22]. It is unclear to what extent this will increase in the coming years. It is known that *V. vulnificus* infections can cause high morbidity and mortality but there is currently no risk to the wider population. Furthermore, the occurrence of *V. vulnificus* bacteria in the environment is already being monitored and was considered sufficient by the experts. Because of an increase in the number of fish farms in the Netherlands where the bacteria are found, the opportunities for control and prevention should be sought in occupational and food safety measures [21]. If a cluster of *V. vulnificus* infections in humans were to occur, this is very likely to be notified to the authorities as the notification of clusters of any severe infectious disease is mandatory. The outcome of the assessment of whether to make this disease notifiable was a negative advice.

**Dengue fever (proposed in 2012)**

Dengue fever is a viral infection, mainly transmitted through bites of the mosquito species *Aedes aegypti*. Symptoms include fever, headache, muscle and joint pains and skin rash. In a small proportion of cases, the disease develops into dengue haemorrhagic fever or dengue shock syndrome. The virus, or an efficient vector to transmit it, does not occur in the Netherlands. Furthermore, assessments can change following the introduction and establishment of a vector capable of transmitting new infections not endemic in the country or the development of new vaccines or prophylactic treatments.

According to the IHR, diseases prone to cause epidemics of special national or regional concern, such as dengue fever, must fulfil certain criteria to be notified to the WHO. A dengue outbreak can have a serious public health impact but is not unusual or unexpected as it has a seasonal occurrence on the Dutch Caribbean islands. Mandatory notification can help applying control measures. The subsequent criteria in the decision aid were met and therefore the outcome was a positive advice. Dengue fever was made a notifiable disease for the Dutch Caribbean islands only, from 1 July 2014.

Table 2 provides the exact answers to the questions posed in the decision aid.

**Discussion**

The decision aid supported a structured decision making process. By documenting the answers to each pre-determined criterion and the rationale for the final decision, the process became more transparent. It guided the discussions and highlighted debatable criteria and therefore the need for further research to fill knowledge gaps (e.g. the effectiveness of control measures or the expected additional work required from physicians and public health services). This process is likely to increase understanding about why a disease was made notifiable and therefore acceptance among healthcare professionals.

For some diseases, the advice may be that it should be made notifiable, but only temporarily or only for a specific subpopulation (e.g. people living in healthcare facilities). This may be a compromise between the expected effectiveness of mandatory notification and its feasibility in the field. For example, during the influenza pandemic in 2009, influenza A(H1N1)pdm09 was temporarily notifiable in the Netherlands. In the beginning of the pandemic, all cases were notifiable. Later in the pandemic, only severe cases who were hospitalised were notifiable. The conditions for mandatory notification were regularly reviewed to maintain a balance between the necessity of monitoring the course of the epidemic and the workload for Public Health Services.

The decision aid may not be able to accommodate all (future) situations. For example, a request to mandate the notification of drug-resistant microorganisms may require some modifications to the decision aid. Pathogens resistant to antimicrobial drugs do not always cause disease but can pose a threat to public health when they spread via carriers into hospitals or nursing homes. Moreover, the characteristics of these microorganisms, such as their potential to resist therapies or pass their resistance genes on to more virulent pathogens, may develop over time.

Furthermore, assessments can change following the introduction and establishment of a vector capable of transmitting new infections not endemic in the country or the development of new vaccines or prophylactic treatments.
### Table 2
Decision making process using the decision aid for mandatory notification status, by criterion and disease

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Chronic Q fever</th>
<th><em>Vibrio vulnificus</em> infection</th>
<th>Dengue fever in the Netherlands</th>
<th>Dengue fever in the Dutch Caribbean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the disease explicitly indicated under the International Health Regulations?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Debatable*: dengue is indicated, but only notifiable when it meets two of four criteria.</td>
</tr>
<tr>
<td>Is the disease endemic in the country / is there an increasing trend in bordering countries / is import relevant?</td>
<td>Yes</td>
<td>Yes</td>
<td>No, neither the virus nor the vector are endemic</td>
<td>Yes</td>
</tr>
<tr>
<td>Is there a likelihood of substantial morbidity and/or could it cause capacity problems for hospitals or general practitioners?</td>
<td>Yes</td>
<td>Yes</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Is source and contact tracing possible and are preventive measures or post-exposure prophylaxis evidence-based?</td>
<td>No</td>
<td>Source and contact tracing is possible. But preventive measures are only possible in raw fish handling. It is therefore debatable if notification to public health services is the only way to initiate measures. The expert panel concluded 'No'.</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the information necessary for timely identification of derived risks to the population, such as failure of vaccines or malaria prophylaxis policy for travellers?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Not applicable b</td>
</tr>
<tr>
<td>Can the disease have international consequences other than indicated under the International Health Regulations?</td>
<td>No Mandatory status may not be indicated</td>
<td>No Mandatory status may not be indicated</td>
<td>No Mandatory status may not be indicated</td>
<td>Not applicable b</td>
</tr>
<tr>
<td>Is the workload for the public health services proportional in relation to the public health benefit?</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the disease recognisable by clear clinical, microbiological and/or epidemiological criteria?</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Is notification the only way to obtain the necessary information (subsidiary principle)?</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the invasion of privacy of the individual proportional to the severity of disease?</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Not applicable b</td>
<td>Yes</td>
</tr>
<tr>
<td>Final advice</td>
<td>No, don't advise mandatory status</td>
<td>No, don't advise mandatory status</td>
<td>No, don't advise mandatory status</td>
<td>Yes, advise mandatory status</td>
</tr>
</tbody>
</table>

* If the answer to this question was debatable, we continued by answering the questions in the decision aid following both a Yes and No answer to this question.

b If the answer to a question led us to 'Don't advise mandatory status', subsequent questions were not answered and are therefore labelled with 'not applicable' in the Table.
In our approach we designed the criteria to be scored with Yes or No: Yes for the process to proceed to the next question and No for the process to stop. Several similar studies focussing on prioritisation of communicable infectious disease have been published using a weighing approach [11,23]. In Germany, a study was performed to establish strategic priorities for the national public health institute. In this study, 127 infectious pathogens were prioritised in accordance with their importance for surveillance. The authors used the Delphi process with different experts to score pathogens according to a set of different criteria. Twenty-six pathogens were ranked in the group with the highest priority [11].

A Canadian study described a tool for prioritising emerging infectious diseases associated with climate change in Canada. The authors designed different pathogen prioritisation tools. The opinion of 64 experts was elicited to assess the importance of 40 criteria that could be used to prioritise emerging infectious diseases, and a weight was calculated for each criterion. The authors stated that the tools were a simple and user-friendly approach to prioritise pathogens according to climate change by including explicit scoring of 40 criteria and incorporating weighting methods based on expert opinion [23].

The ECDC has published a literature review on risk ranking of emerging infectious disease threats [24]. This review identified a range of methods to prioritise these threats and provided an evaluation of the strengths and limitations of the available methods. Whether or not such a weighting approach would yield a more robust advice is not clear. Although our pilot experience with the current approach was positive, a weighted approach of the decision aid criteria could be studied in a future project.

Conclusions and recommendations
This decision aid guided the discussion and highlighted areas where more research is required. In the Netherlands, this aid was helpful in strengthening and harmonising the process of advising on infectious diseases notifications. We believe the decision aid could be useful for policy advisors in other countries where decisions need to be made on whether or not notification of an infectious disease should be made mandatory.

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Conflict of interest
None declared.

Authors’ contributions
PB, EF, KK wrote the draft manuscript; PB, EF, SvDp, MTM piloted the decision aid; MK, GH, HvV and MvdS commented on earlier versions of the manuscript. All authors corrected and approved the final version.

References


