

We don't need to change how we subsidise 'breakthrough' cancer treatments

November 27 2017, by Richard De Abreu Lourenco, Marion Haas, And Rosalie Viney



Credit: AI-generated image ([disclaimer](#))

New therapies that arm the immune system to fight cancer, such as Keytruda (pembrolizumab) and Yervoy (ipilimumab), have offered patients with advanced melanoma real hope of effective treatment.

But until these drugs, known as immunotherapies, were publicly subsidised, they were prohibitively expensive for Australian [patients](#). A patient using Keytruda, for example, would be out of pocket an estimated [A\\$150,000](#) per year of treatment.

The [Pharmaceutical Benefits Advisory Committee](#) (PBAC) recommends which drugs to subsidise and list on the Pharmaceutical Benefits Scheme (PBS). The PBAC uses the same [process](#) for all drugs, regardless of the health condition the drug will treat.

[Some argue](#) considerations of cost-effectiveness that have been used for years are not a good fit for new cancer therapies, particularly immunotherapies. The argument is that these considerations overlook some unique benefits new drugs offer that aren't relevant to old medications, and that we should [review how](#) we consider such drugs for funding.

But looking at the processes that led to Keytruda and Yervoy being listed on the PBS, we argue the way PBAC currently works serves us well.

How the PBAC makes decisions

The health minister can't list a drug on the PBS without a PBAC recommendation to do so. For the PBAC to consider a drug, it has to receive an application. Generally, the manufacturer of the drug submits the application.

The process has a fixed 17-week period from submission of the application to the PBAC meeting. During this time, applicants can provide [evidence](#) for the committee to consider. A list of all submissions being considered by the PBAC is published prior to the meeting so members of the community can provide their views.

More recently, the PBAC has invited patient groups to attend hearings and provide evidence.

Since 1993, [legislation](#) has required the PBAC to consider the health outcomes and costs of a new medicine relative to currently available treatments. Typically, the PBAC assesses the effectiveness of a drug according to its impact on the length and quality of life of the patient taking it. This is expressed in a measure called the quality adjusted life year (QALY).

The committee then judges whether each cost per QALY represents value for money for society, and whether it has confidence in those values given the data available. The PBAC also considers other factors, including equity of access and the availability of alternatives.

But there have recently [been suggestions](#) that some of the benefits of immunotherapies are overlooked when the focus is on the cost per QALY. These include increased durability of the response for some patients, reduced treatment costs for the future, improved productivity and the value of hope to patients.

But if these benefits were indeed being overlooked, we might expect immunotherapies not to be listed on the PBS, or delays in listing. This has not been the case.

Immunotherapy case studies

The PBS recently added two immunotherapy drugs for patients with metastatic melanoma (melanoma that has spread): Yervoy (ipilimumab) and Keytruda (pembrolizumab).

Yervoy

PBAC first considered an application from Yervoy's manufacturer in July 2011. Despite the drug being seen as a [breakthrough](#) in the treatment of metastatic melanoma, the PBAC didn't recommended it for listing then. It only [did so in November 2012](#) after two [subsequent applications](#) from the manufacturer. Yervoy was [added to the PBS](#) in August 2013.

The reason for this delay was that the PBAC was [initially uncertain](#) of the drug's efficacy and cost-effectiveness, based on the evidence it was given. This was in part because the primary evidence was a [study that compared Yervoy with a vaccine](#) not used in Australian practice.

In the study, 50% of patients treated with Yervoy lived 3.7 months longer than those who received just the vaccine. But these results couldn't be directly translated to Australian practice, where treatment at that time was different.

PBAC accepted evidence for the prolonged response and survival for people on Yervoy, as a result of the two resubmissions. But the magnitude of those gains was uncertain as they reflected the experience of around 10% of the study's patients. The ongoing costs were also uncertain – there was no answer as to how long patients would need to remain on Yervoy, or whether they would need treatment again.

But, overall, the PBAC [recognised the potential benefits](#) of the drug. It was made available through the government and the manufacturer entering into a [risk-sharing arrangement](#). Under this agreement, the government would review what it paid for Yervoy to take account of the outcomes being achieved in patients, as well as how much the drug was being used.

Keytruda

Keytruda had a faster, but no less complex, passage to PBS listing. PBAC [considered the application](#) in March 2015 to list the [drug](#) for [metastatic melanoma](#). This was after a series of stakeholder meetings, including representatives from government, patients, clinicians and the manufacturers, as well as a rolling submission of evidence during the 17-week PBAC evaluation process.

Initially, no evidence was available of a direct comparison between Keytruda and the relevant comparator, which was the previously listed Yervoy. But a randomised [controlled trial](#) became available as evidence during the evaluation.

These data showed Keytruda was likely to be at least as beneficial as Yervoy, with the potential for better long-term survival. This, together with a risk-sharing arrangement similar to the one applied to Yervoy, was sufficient for the PBAC to recommend PBS listing from the first submission.

Keytruda became available as a PBS-listed item for melanoma in September 2015. This provided access to an additional care option for around [1,100](#) patients.

In both cases, the process was sufficiently flexible in response to the available data to make a positive recommendation for listing. It is unclear how changing requirements for evidence for these or other cancer drugs, or introducing different [reimbursement models](#), would have better served these drugs or the patients who use them.

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