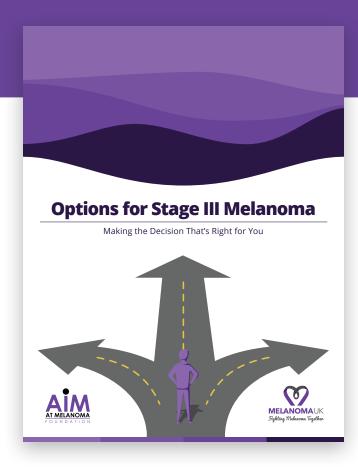
Options for Stage III Melanoma



Making the Decision That's Right for You

Companion Piece for Patients in the United Kingdom





This is a companion piece for the guide, *Options* for Stage III Melanoma: Making the Decision That's Right for You, which can be downloaded here (https://aimwithimmunotherapy.org/uk/).

This companion piece was developed based on the answers to questions posed by real patients who attended a Facebook Live review of the guide. The content of this companion piece has been customized for the United Kingdom audience based on the input of Melanoma UK. We hope you find this information helpful to you as you navigate your way through your Stage III melanoma diagnosis.

A resource from the Melanoma International Patient Advocates Coalition.

This content was created through a collaboration of AIM at Melanoma Foundation and Melanoma UK.









Questions and Answers

What is stage III melanoma?

Stage III melanoma is melanoma that has spread (metastasized) from the primary tumour to the regional area. This is in contrast to melanoma that has spread far away to a distant location. In Stage III, melanoma has spread from the original location to the region right around it, or a little further toward the lymph nodes in the region, or to the regional lymph nodes.

You may be familiar with the lymph nodes in your neck, armpit, and groin. As an example, let's say you had a primary melanoma on your upper arm. The lymph nodes that the melanoma would typically travel to first would be under the armpit. If those tested positive for melanoma, it would be considered Stage III disease. You could also have other forms of regional (Stage III) disease. For example, an in-transit metastasis would show up somewhere in the little lymphatic channels that travel away from the primary tumour location but not quite as far as the lymph nodes in the armpit. It would also be Stage III disease if the melanoma spread to the area right around the original primary tumour. This type of spread is sometimes picked up when your doctor performs the wide

local excision and is called a microsatellite. So you may hear different terms—nodal disease, satellite, microsatellite, or in-transit disease—to describe melanoma that has spread in the region (Stage III disease).

reached the regional (nearby) lymph node. As shown in Graphic 17, when the nodes are "clumped/matted," meaning the process of spreading has attached them together, that is also a marker of more advanced disease.

Guide Notes:

The last part of the guide contains an in-depth discussion of melanoma staging. Pages 26-27 explain regional (Stage III melanoma) in text and pictures under the heading N (nodal classification).

N= NODAL CLASSIFICATION

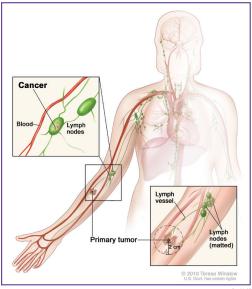
from the primary turnor to nearby (regional) lymph nodes or skiritymphatics. As shown in Graphic 17, lymph nodes are small, seed-shaped structures that contain disaters of immune cells. Their function is to filter the hymphatic fluid. They are found throughout the body, notably in the neck armpit, and groin. As discussed earlier, cancer cells typically spread from the primary turnor to the nearest kingh no doe before traveling to other parts of the body.

Lymph node involvement is rated according to a number of factors. One factor is how many hymph nodes, when bipsied, are found to have melanoms cells. There are 4 Meeignations ND means there is no lymph node involvement, while N1-3 designations are used for 1 to greater than 4 moveled nodes. There are more subgroupings based on whether the nodes are visible to the naked eye/palpable (which means they can be felt by the hand). Some involved nodes, there are not visible/palpable and are only found by a settined lymph node SLN1) involved nodes. There are not visible/palpable and are only found by a settined lymph node SLN1).

SUks are the first nodes for a single node) to which lymph fluid flows and to which cancer may move when I leise the deemin. To perform an SUk beyop, a doctor will lipical a radioactive fracer or de transverse from the series need by primary turn or location, the market will travel use the lymphosis to the series need so, and this will help the surgioni vausalited identify them. The SUK(s) will then be removed and examined for cancer cells. Tymph node that are destinated in survey measurement of them only by performing a SUK beyops, that are destinated as making measurement on them, only by performing a SUK beyops, speaking, when lymph nodes involvement of could not visible or papable t, makes a better declarate could be survey to the survey of the surve

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Finally, the N classification includes evaluation of satellites, in-transit metastases, and microsatellites. While they may be labeled with different terms, these are all grouped together

as intralymphatic regional metastases and are considered regional disease. They all represent small metastases that are close to but separate from the primary tumor. They have not

Graphic 17. Stage III melanoma. The figure shows the nodes in relationship to the primary melanoma as well as the lymphatics that drain the tissue surrounding the tumor. In the inset, several of the lymph nodes are clumped/matted, which is a marker of more advanced disease. Itsed with permission from Torses Winshow LLC.

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Why should I know what specific subgroup of Stage III melanoma I have?

Stage III melanoma encompasses a wide range of conditions. You may have only one or multiple lymph nodes that contain cancer. Your lymph nodes may be enlarged to the point that your healthcare provider can see or feel them. Or the affected lymph nodes may not be readily apparent—they may only have been detected when the lymph node was biopsied, and the cancer was visible under the microscope. It could be that you had matted or clumped lymph nodes. Alternatively, you may have melanoma in the region between the primary tumour location and the lymph nodes. Your specific subgroup of Stage III melanoma is also affected by the characteristics of your primary melanoma—how thick it was and whether or not it was ulcerated, which means part of the upper layer of skin is broken on the top of the melanoma. Ulcerated melanomas have a different disease course (prognosis) than nonulcerated melanomas.

It's important to know this information and which subgroup of Stage III disease you have, whether it is Stage IIIA, IIIB, IIIC, or IIID. The prognosis differs with each subgroup.

Guide Notes: In addition to pages 26 and 27 of the guide, which explain all of the different elements of the nodal classification system, page 29 contains a table that helps you understand how the primary tumour characteristics and the nodal characteristics can be used to determine your substage. The table also shows the 5-year and 10-year survival rates associated with each substage at the time that the staging system was published.

Your healthcare provider can use this table to help you understand how he/she arrived at your substage and what it means for the predicted course of your disease (prognosis). However, it is important to remember that survival rates do not predict an individual's outcome. Every person and every case are different, and many factors contribute to an individual's survival. It's also important to remember that new and successful treatments have emerged over the last few years, and survival rates are increasing in Stage III melanoma.

Primary Tumor, T Category with Thickness,	Nodal Category	Stage	Melanoma-Specific Survival	
Ulceration	Nodai Category	Stage	5-Year	10-Year
T1a or T2a: Less than 2.0 mm, not ulcerated OR T1b: Less than 0.8 mm, ulcerated OR 0.8 – 1.00 mm, regardless of ulceration	N1a: 1 node found, not visible or palpable (detected by SLN biopsy) OR N2a: 2-3 nodes found, not visible or palpable (detected by SLN biopsy)	Stage IIIA	93%	88%
T3a: 2.1 - 4.0 mm, not ulcerated OR T2b: 1.1- 2.0 mm, ulcerated T1a-T3a: Less than 4.0 mm, not ulcerated OR T1b, T2b: Less than 2.0 mm, ulcerated	N1a: 1 node found, not visible or palpable (detected by SLN biopsy) OR N2a: 2-3 nodes found, not visible or palpable (detected by SLN biopsy) N1b: 1 node visible/palpable OR N1c: In-transit, satellitle, or microsatellite metastases but no disease in the regional lymph node OR N2b: 2-3 nodes, at least 1 visible/palpable	Stage IIIB	83%	77%
T0: Primary melanoma not found	N1b: 1 node visible/palpable OR N1c: In-transit, satellite, or microsatellite metastases but no disease in the regional lymph node			
T1a-T3a: Less than 4.00 mm, not ulcerated OR T1b-T2b: Less than 2.00 mm and ulcerated T3b: 2.1 – 4.0 mm, ulcerated OR T4a: More than 4.0 mm, not ulcerated T4b: More than 4.00 mm, ulcerated T4b: More than 4.00 mm, ulcerated	N2c.: 1 node not visible or palpable (detectable by SLN biopsy) of 1 node visible)palpable with in-transit satellite, or microsatellite metastases OR. N3a: 4 or more nodes, not visible or palpable (detected by SLN biopsy) OR N3b: 4 or more nodes, at least 1 visible or palpable, or any clumped nodes DR N3c: 2 or more nodes, either visible/palpable or not visible or palpable, or any clumped nodes plus in-transit, satellite, or microsatellite metastases Any N1, N2, or N3 (any nodal involvement or in-transit, satellite, or microsatellite metastases) N1a-N2c: Up to 3 involved nodes, requardless of whether visible-palpable or in-transit, satellite, or microsatellite metastases metastases.	Stage IIIC	69%	60%
Tô: Unknown primary	NZb: 23 nodes, at least 1 visible/palpable OR NZc: 1 node not visible or palpable (detected by SLN biopsy) or 1 node visible or palpable with in-transit, satellite, or microsatellite metastases OR NZb: 4 or more nodes, at least 1 visible or palpable, or any clumped nodes OR NZc: 2 or more nodes, eitherst visible/palpable or not visible or palpable (detected by SLN biopsy) and/or any clumped nodes plus in-transit, satellite, or microsatellite metastases			
T4b: More than 4.00 mm, <i>ulcerated</i>	N3a: 4 or more nodes, not visible or palpable (detected by SLN biopsy) OR N3b: 4 or more nodes, at least 1 visible or palpable, or any clumped nodes OR N3c: 2 or more nodes, either visible/palpable or visible or palpable (detected by SLN biopsy) and/or any clumped nodes plus in-transit, satellite, or microsatellite metastases	Stage IIID	32%	24%

Graphic 18. Stage III Melanoma Substaging Criteria

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Why is surgery sometimes not enough?

Surgery for stage III disease is sometimes not enough. In Stage III patients, the risk of the disease coming back (recurring) can be high enough that surgical removal of the tumour(s) is not enough. When a lymph node is positive, the melanoma can have access to the rest of the body. It can spread throughout the lymphatic system. The lymphatic system is closely tied to the bloodstream, which travels everywhere throughout the body. So even though the melanoma may have started on your hand, if it gets into the lymphatics, it can spread more easily. Overall, Stage III patients have about a two-thirds chance of recurrence over 5 years. Thus, there can be a strong rationale for taking medication to prevent the disease from coming back. The higher your substage of Stage III, the greater the risk of recurrence from the disease.

Guide Notes: On pages 2-4, the guide addresses the risk for recurrence with Stage III melanoma. It shows survival curves that help you understand why Stage III melanoma is considered high risk and how the risk increases with progressive substages (Stage IIIA, Stage IIIB, Stage IIIC, Stage IIID). It also explains how the tumour can come back even when the surgeon removed all the visible tumour.











What do I need to know before I go to the oncologist?

There are a few pieces of information that your oncology team will need in order to evaluate the options to treat your high-risk melanoma.

First, the team needs all the details about your stage—this can include the pathology report from the original primary as well as all the information from the assessment of your lymph node (example, sentinel lymph node biopsy, surgery, needle biopsy, etc.). They will also need staging scans (imaging) to make sure that the melanoma has not already metastasized farther, meaning it has spread past the lymph nodes to other parts of the body such as in the lung, liver, or bone. Such staging scans could include the use of a positron emission tomography/computer tomography (PET/CT) combination scan, magnetic resonance imaging (MRI), or a CT scan alone. If there are distant metastases, then you would be staged as Stage IV and you and your oncologist would then discuss therapy options specific for that stage.

Another important piece of the puzzle is your *BRAF* status. *BRAF* is a mutation that is present in approximately 50% of cutaneous (skin) melanomas that are tested. If you have melanoma on your hands/feet, your mucosa, or in your eye, different mutations can be involved—we will not be discussing those types of melanoma in this guide. For cutaneous melanoma, the reason it's important to know your *BRAF* status is that there are drug treatments, BRAF/MEK inhibitor combinations, that are an option for adjuvant therapy if you have the *BRAF* mutation. But those drugs don't work if you don't have the *BRAF* mutation.

To be tested for the *BRAF* mutation, your pathologist, surgeon, dermatologist, or oncologist must order the test. If your healthcare provider has not ordered the test, you will want to talk with either your surgeon, dermatologist, or oncologist about ordering it.

Guide Notes: The guide provides a discussion of *BRAF* testing and treatment for *BRAF*-positive melanoma (pages 5-6).



Distration is transcribed in approved for patients with Stage III melanoms that has been surgically removed and has exact apositive for the 8PM mustion it is not approved for patients with do not have the 8PM mustion wild up be tumour). Therefore, knowing if your tumour has this genetic mustation is critical before you choose a treatment.

Testing for the 8PM mustion requires that a sample of your melanoms atmost he processed in a specific way ideality, your melanoms as sampled of your melanoms tumor he processed in a specific way ideality, your melanoms and old be reserved to the 8PM mustation with a well-accepted test to ensure that your healthcare team has access to the information needed and to aid in reimbursement.

Because using distrations I transcribe for against the reprise the sets. You should also the stead for the BPM mustation before stiting down with your moclogist to discuss your options. Occasionally, there is not enough tumor available to complete the test. If this happens, your conclogist will discuss what happens next. Oncology teams have become more adept at handling these challenging situations with more experience and testing options.

IMMUNOTHERAPY

Immunotherapy is a treatment that gives your immune system more power to fight your carene. Every day, our immune system recognize diagrous things—carener cells, finciding some melanoma cells have way a evening put time to have not your immune system may not even recognize these carener cells, which might explain with your power provides in the system may not even recognize these cancer cells, which might explain with your because providing the steam of the produce fever and less severe side effects compared with CTLM inhibitors are providing that inhibitors. Such as justimization and the produce fever and less severe side effects compared with CTLM inhibitors are person of the produce fever and less severe side effects compared with CTLM inhibitors are person inhibitors. Inhibitors along the produce fever and less severe side effects compared





What are the options for Stage III melanoma?

There are three options for managing Stage III melanoma: targeted therapy, immunotherapy, and active surveillance. Each are briefly discussed below.

Targeted therapy is a combination of oral medications—a BRAF/MEK inhibitor combination that can be used in patients who have the *BRAF* mutation. Together, these drugs block key protein enzymes that help the melanoma grow. Immunotherapy treatments give your immune system more power to fight cancer. Currently, immune checkpoint inhibitors—PD-1 inhibitors and CTLA4 inhibitors—are used as adjuvant immunotherapy for melanoma.

Another option is called active surveillance. With active surveillance you are not taking any

medicine to prevent the melanoma from coming back, but you are keeping a close eye out for any recurrence. You would go back to your oncologist on a regular basis for monitoring, which would include examination of your skin, a clinical examination to feel for lymph nodes, and additional imaging scans to see if the melanoma has spread further. You might consider active surveillance if you and your oncologist feel like your risk for recurrence is relatively low or if the adjuvant medications are not good options for you.





How long is drug treatment?

Targeted therapies and PD-1 inhibitors can be given for up to a year-as long as you tolerate the side effects and the melanoma has not come back.

Guide Notes: See page 17 for a discussion of the how the drugs are given.

Do the drug treatments work?

These drugs are effective at reducing your risk of recurrence and improving survival rates in melanoma patients. We are continuously learning about the long-term benefits of these drugs on survival.

OTHER CONSIDERATIONS

DRUG ADMINISTRATION

For targeted therapy, you will be taking capsules/tablets twice a day as long as you are tolerating the combination and the melanoma doesn't come back, for up to 1 year.

Nivolumab is given as an intravenous (IV) infusion into your arm, typically at your oncologist's office. The drug is usually given every 2 weeks (but can be given every 4 weeks) and will be continued as long as you tolerate it and the melanoma doesn't come back, for up to 1 year. The infusion lasts for 30 or 60 minutes.

Pembrolizumab is given as an IV infusion into your arm, typically at your oncologist's office. The drug is given every 3 or 6 weeks and will be continued as long as you tolerate it and the melanoma doesn't come back, for up to 1 year. The infusion lasts for 30 minutes.

For both targeted therapy and immunotherapy, patients should be treated for a period of 12 months unless there is disease recurrence or unacceptable toxicity.

Now that you have a better understanding of how each treatment is given, here are some factors you may want to consider when discussing with your physician and choosing your treatment

- $\boldsymbol{\cdot}$ How do you feel about having to take "pills" every day?
- · Will you remember to take your medication twice a day, every day?
- The trametinib component of targeted therapy must be refrigerated. Would this be an issue for you (for example, having to keep the medication at the proper temperature when traveling)?
- $\boldsymbol{\cdot}$ How diligent will you be about taking these pills? They need to be taken on an empty stomach (at least 1 hour before or 2 hours after a meal)

Immunotherapy

- · Are you willing to go to an infusion center every 2, 3, 4, or 6 weeks?
- $\boldsymbol{\cdot}$ Do you have the transportation and the means to get to the infusion center?
- ${\boldsymbol \cdot}$ Can you arrange your schedule to be at the infusion center every 2, 3, 4, or 6 weeks?

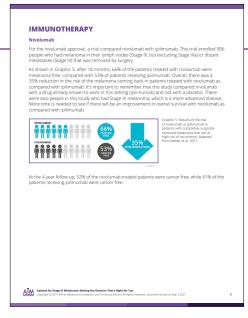
Many patients expect that pills will have fewer side effects than IV drugs, but that's not always the case. You can get rashes or feel achy with oral drugs just as you do after an IV infusion, and you may be less mentally prepared for side effects from an oral drug than from an infusion.

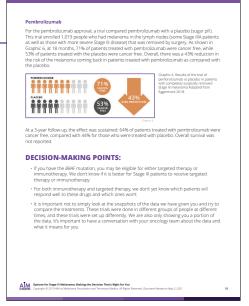


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Guide Notes: See pages 8-10 for a discussion of the data on each of the adjuvant therapies.

HOW WELL THESE DRUGS WORK TARGETED THERAPY As shown in Graphic 4, after 2.8 years, 6.2% of patients receiving the combination were melanoms free, compared with 4.3% of patients receiving the placebo. Overall, there was a 5.3% reduction in risk of the melanoma coming back in patients treated with the combination as compared with the







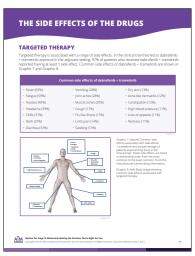


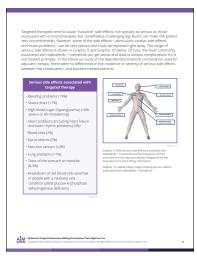
What are the side effects of these drugs?

With the BRAF/MEK inhibitors, about 97% of patients will have some kind of side effect. So although it's easy to take this combination at home, you may experience side effects of some kind. The most common are fevers—and they can be pretty high, in the 103°F range; fatigue; and nausea. An itchy rash can develop. Other side effects as described in the guide. Your oncologist can adjust the medicine and reduce the dose if some of these side effects tend to be more severe.

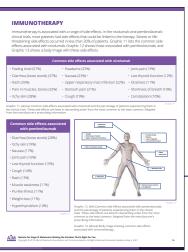
With immunotherapy, the most common side effect is fatigue. The drugs work by revving up the immune system, so you can develop autoimmune problems, like an inflammation of the colon, a rash, liver inflammation, endocrine problems, pulmonary issues, etc. These can happen any time during the course of your therapy or even after your therapy, and they can progress and become serious. But they can generally be treated quite effectively. So it's important to inform your care team about any changes in how you feel because some of the immune-related side effects can start off very subtly. It's best to treat them early.

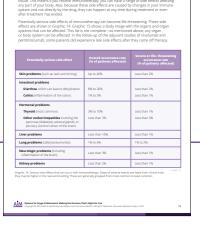


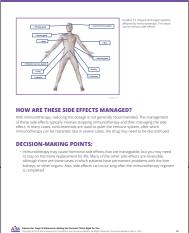














Will these drugs affect my ability to have children?

These drugs may cause fetal harm. Therefore, the general recommendation is for couples to avoid pregnancy while one of them is taking any of these medicines—whether it's a man or a woman. So while you're on therapy, make sure that you're using two birth control methods. These can be condoms, female contraceptive, whatever that is for you. However, if you are a woman taking targeted therapy, you need to be careful with oral contraceptives because they may interact with your medicine. While experts don't believe these drugs have a direct long-term effect on fertility, the immunotherapies may affect the hormone system long term because of a potential hormonal effect, so some patients have described difficulty getting pregnant for the year or so after they stopped treatment.

Most clinics will tell you not to conceive until at least six months after immunotherapy is stopped. Now, targeted therapy clears from your system a little bit faster, and the manufacture recommends that you don't get pregnant for at least four months after therapy.

Before considering any next steps in family planning, consult your health care team.

Guide Notes: See page 19 for a discussion of fertility/family planning with these therapies.

FINANCIAL ISSUES

- · Intravenous therapy will need to be taken at the medical facility, while you can take the oral medicine at home. These medications may be treated differently in terms of reimbursement
- $\boldsymbol{\cdot}$ A financial consideration is the impact of the rapy on your ability to earn a living. Are you able to miss work during treatment, either to receive infusions or because of the side effects of therapy? Does your work require you to travel? If you work full time, can you arrange a flexible nedule to meet your treatment requirements? It is important to consider these factors and find out your legal protections

FERTILITY/FAMILY PLANNING

Pregnancy Prevention

Whether you are a woman of childbearing age or a man who is sexually active, it is important that you use effective birth control while on treatment and for the specified time thereafter. These medications can cause fetal harm. People taking dabrafenib + trametinib should use an effective nonhormonal birth control method such as a condom, diaphragm, or spermicide during treatment and for 4 months after the last dose. Hormonal birth control (pills) is not recommended because of the potential for interaction with this drug combination. For nivolumab or pembrolizumab, you should use an effective method of birth control during treatment and for 6 months after the last dose of therapy.

Fertility/Family Planning

Fertility and family planning can be important issues to consider. Little is specifically known about the impact of these drugs on fertility. What is known is that once targeted therapy is discontinued, there are generally no long-term side effects, and the drugs are out of your system relatively quickly. If you use effective birth control and don't conceive for 4 months after you stop treatment, it is unlikely the medication would have a long-term effect on fertility.

With immunotherapy, fertility questions are more complex because of the potential of long-term impact on the immune system from these drugs in both men and women. Side effects could occur (including hormonal changes such as pituitary or thyroid problems) that could impact fertility, but this has not been well studied. Again, at the very least, you should avoid trying to conceive for at least 6 months after you stop treatment.

It's important to have a frank conversation with your oncology team about your family planning issues prior to starting treatment. You might also want to consider seeing a fertility specialist who is familiar with these issues in cancer patients. You may wish to discuss whether you can freeze some of your eggs/sperm before treatment if you are considering trying to conceive later. Your oncology team might have some names of



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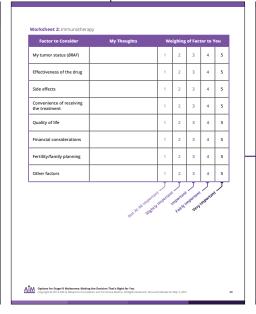
Is one approach better than the other?

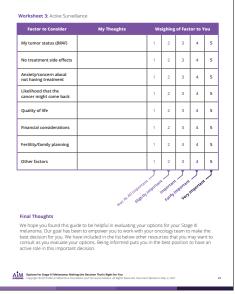
Not necessarily. Your oncologist will work with you on deciding your specific treatment plan. A lot of factors will be considered:

- · Your substage and risk for recurrence
- · Your BRAF status
- · Any existing autoimmune conditions
- · Your overall health
- The safety of the drugs
- · Convenience/quality of life
- · Fertility/Family planning

Guide Notes: See pages 20-21 for the worksheets to help you weigh your options. You can complete these worksheets with your healthcare team to evaluate the options and select the approach that is best for you.

whether targeted therapy, in	intended for you and your me imunotherapy, or active surveill h risk of recurrence. These wor ich option.	ance is th	ne best	approa	ach for	
Worksheet 1: Targeted The	My Thoughts Weighing of Factor to You					
My tumor status (BRAF)		1	2	3	4	5
Effectiveness of the drug		1	2	3	4	5
Side effects		1	2	3	4	5
Convenience of receiving the treatment		1	2	3	4	5
Quality of life		1	2	3	4	5
Financial considerations		1	2	3	4	5
Fertility/family planning		1	2	3	4	5
Other factors		1	2	3	4	5
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The development of this companion piece was supported by an unrestricted educational grant from Bristol Myers Squibb.