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Psychological Impact of Melanoma, How to Detect, Support and Help

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Abstract

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Incidence of melanoma is increasing every year. A few years ago, we could not speak about long term survivors with melanoma. Chemotherapy did not give a good effect in the past. Metastasis occurred very rapidly, and the progression of melanoma was very fast. But now, with new forms of therapy, especially immunotherapy and target therapy, for the first time, we have long-time survivors. For the prognosis of melanoma, the most important is the stage in which melanoma is detected. For all dermatologists, it is very important to be aware of the psychological impact of melanoma on patients. Dermatologists should recognise psychological disorders. Several different scales can be used for the detection of depression and anxiety - some of them are completed by researchers, some of them are completed by patients, and also, we have combined scales. The need for adequate social and family support as well as psychological help to achieve better coping with illness is necessary. Learning techniques to overcome fear and stress would help in better functioning of all affected, regardless of the stage of the disease. The most severe cases of anxiety and depression, in addition to psychotherapeutic interventions, should also be considered medication therapy.

Introduction

Incidence of melanoma is increasing every year. There are different sources with different data, very controversial, but it is evident increasing in incidence, especially in men over the age of 60. It is more frequent in young girls than in young men probably because of the use of the sunbeds. But, in Australia, New Zealand, the USA, North and Eastern Europe incidence is the highest. The fair-skinned, overexposed white population is in the greatest risk.

A few years ago, we could not speak about long term survivors with melanoma. Chemotherapy did not give a good effect in the past. Metastasis

occurred very rapidly, and the progression of melanoma was very fast. In young people, progression was even more aggressive. Living with melanoma was not considered and occurred very rarely. But now, with new forms of therapy, especially immunotherapy and target therapy, for the first time, we have long-time survivors. For the prognosis of melanoma, the most important is the stage in which melanoma is detected. If it is detected in the IA stage 5-years survival is 97%, but if it is detected in the IV stage 5-years survival is only 15%. Living with melanoma is not easy, even if it is detected in the first stage. Follow up procedures every 3 or 6 months, laboratory testing, different examinations, surgery interventions, skin checking and other follow up procedures are very hard for all patients. Fear of the progression of the disease is always present, even if it is diagnosed in the IA stage. Sometimes, but not so frequently, depression is also detected. We can mostly detect depressive symptoms, or minor depressive disorder and very rarely major depressive disorder.

The most frequent psychological disorders and scales

For all dermatologists, it is very important to be aware of the psychological impact of melanoma on patients. Dermatologists should recognise psychological disorders. Depressed mood, loss of interest/pleasure, significant weight loss or weight gain without trying to, insomnia or hypersomnia, psychomotor agitation/retardation, daily fatigue or loss of energy, feelings of worthlessness or excessive quilt, inability or difficulty with thinking, concentrating, and making decisions, suicidal thoughts, plans to commit suicide, or a suicide attempt. Sometimes, very rarely, we can detect symptoms of psychosisdelusions or hallucinations. For the diagnosis of major depressive disorders, it is necessary coexistence of 5-9 symptoms that last at least 2 weeks. For diagnosis of minor depressive disorder coexistence of 2 / 4 symptoms that last at least 2 weeks are necessary. Dysthymic disorder is different, and it is characterised by the depressive mood that lasts longer than 2 years, with mostly 2-6 symptoms.

Several different scales can be used for detection of depression - some of them are completed by researchers, some of them are completed by patients, and also, we have combined scales. Some of the scales completed by researchers Hamilton Depression Rating the Montgomery-Asberg Depression Rating Scale, Raskin Depression Rating Scale. But for dermatologists and screening programs, the most important are scales completed by patients. The Beck Depression Inventory is a scale that is in use very frequently. It consists of a 21-question, and it is self-report inventory that covers different symptoms that are present in depression such as fatigue, lack of interest in sex, weight loss, feelings of guilt, hopelessness, etc. The scale is completed by patients to identify the presence and severity of symptoms consistent with the DSM-IV diagnostic criteria. The next used self-reported questionnaire The Patient Health Questionnaire (PHQ). The Patient Health Questionnaire-9 (PHQ-9) is a self-reported, 9question version of the Primary Care Evaluation of Mental Disorders and it is very useful for quick screening. The Patient Health Questionnaire-2 (PHQ-2) is a shorter version of the PHQ-9 with only two questions to assess the presence of a depressed mood and a loss of interest or pleasure in routine

activities. If it is detected, further testing is needed. Other scales that can be used are The Geriatric Depression Scale (GDS), Zung Self-Rating Depression Scale, The Clinically Useful Depression Outcome Scale (CUDOS), The Inventory Depressive Symptomatology (IDS), The Mood and Feelings Questionnaire (MFQ), The Quick Inventory of Depressive Symptoms (QIDS), The Jacobson Joy Inventory (JJI)-Research in process-Banner University Medical Center, The Positive Health Questionnaire (PHQ) Research in process-Banner University Medical Center, etc.

Anxiety is very frequent, and it can be detected in almost all patients with melanoma. It is a feeling of apprehension caused by anticipation of an ill-defined threat or danger that is not based. Components of anxiety are emotional, cognitive anticipation (memory), behavioural and somatic. There are different scales for measuring level of anxiety - Brief fear negative evaluation scale / BFNE, depression anxiety stress scales-DASS-21, Generalized anxiety disorder questionnaire IV -GADQ-IV, generalized anxiety disorder-GAD 7 (Table 1), Hamilton Anxiety rating scale - HARS, Leibowitz social anxiety scale - LSAS, overall anxiety severity and impairment scale (OASIS), hospital anxiety and depression scale - HADS, patient health questionnaire 4 – PHQ-4, Penn state worry questionnaire - PSWQ, etc.

Table 1: Depression and symptoms

Major depressive disorder	Minor depressive disorder	Dysthymia	Symptoms 1. depressed mood
2 weeks duration	2 weeks duration	2 years duration	loss of interest/pleasure significant weight loss or
Depressed mood or loss of interest	or loss of interest mood	Depressed mood	weight gain without trying to 4. insomnia or hypersomnia 5. psychomotor agitation/retardation 6. daily fatigue or loss of energy 7. feelings of worthlessness or
5 of 9 Symptoms		2-6 Symptoms	excessive guilty 8. inability or difficulty with thinking, concentrating and making decisions 9. suicidal thoughts, plans to commit suicide, or a suicide attempt

For dermatologists, for fast screening, GAD-7 and BAI are very useful. They are self-reported questionnaires, and very fast, and with a high-quality dermatologist can detect the level of anxiety (Table 2).

Table 2: Generalized anxiety disorder- GAD 7

Over the last 2 weeks, how often have you been bothered by the following problems?	Not at all sure	Several days	Over half the days	Nearly every day
1. Feeling nervous, anxious, or on edge	0	1	2	3
Not being able to stop or control worrying	0	1	2	3
3. Worrying too much about different things	0	1	2	3
Trouble relaxing	0	1	2	3
Being so restless that it's hard to sit still	0	1	2	3
Becoming easily annoyed or irritable	0	1	2	3
7. Feeling afraid as if something awful might happen Add the score for each column Total Score (add your column scores) =	0	1	2	3

If dermatologist detects any level of anxiety or

some of depressive symptoms, it is necessary to advise patient to visit psychologist, psychotherapist or psychiatrist. How patient will accept the disease depends very much on their mechanisms of defence. Also, support and help are necessary, the first from the family members, friends, colleges, but also from doctors/ dermatologists, and at the and professional help from psychiatrists, psychologists and psychotherapists.

There are described mostly three general theoretical coping styles in the psycho-oncology literature: 1) Active-behavioral coping – this coping style refers to overt behavioural attempts to deal directly with cancer and its effects; 2) Active cognitive coping, this coping style includes one's attitudes, beliefs, and thoughts about cancer; 3) Avoidance coping, this coping style refers to attempts to actively avoid the problem or indirectly reduce emotional tension through the use of distraction. All these mechanisms of coping are useful but not equally.

In conclusion, the need for adequate social and family support as well as psychological help in order to achieve better coping with illness is necessary. Learning techniques to overcome fear and stress would help in better functioning of all affected, regardless of the stage of the disease. The most severe cases of anxiety and depression, in addition to psychotherapeutic interventions should also be considered medication therapy. The need for a multidisciplinary team that would be involved in monitoring the patient from the moment of the establishing the diagnosis of melanoma is of exceptional importance and include dermatologist, surgeon, radiotherapist, neurologist and psychiatrist, psychologist, psychotherapist.

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