Determining the core content of a digital survivorship care plan for melanoma

survivors: A multi-stakeholder Delphi-consensus study

3

1

2

4 Dear Editor, Given the increasing incidence and survival rates of melanoma, survivorship care (SSC) is becoming increasingly important. However, implementation and effectiveness of related 5 6 survivorship care plans (SCPs, personalised care plans for cancer survivors) are currently 7 suboptimal, and may benefit from tailoring their content to key stakeholders' needs. In addition, 8 a dynamic digital format would enable tailored content to meet the diverse individual needs. Since it remains unclear what elements they consider essential, we conducted a three-round, 9 multi-stakeholder e-Delphi consensus study among melanoma survivors and their healthcare 10 providers (HCPs) with the objective of achieving consensus on the core content of a melanoma 11

12

SCP.

13 14

15

16

17

18

19

20

21

22 23 Forty-four potential elements were identified from prior in-depth qualitative research on stageand treatment phase specific melanoma SSC perspectives and needs^{1, 2}, and structured according to the main SSC categories: (1) information and education, (2) identification and treatment, (3) oncological follow-up and (4) coordination^{3, 4}. Thirty-eight melanoma survivors (stage I-IV) and 26 HCPs (dermatologists, internist-oncologists, (oncological) surgeons, nurse specialists, support counsellors and general practitioners) treated or working in one of four regional hospitals in the south-western part of the Netherlands were invited to participate by email. Participants were asked to rate the desirability of including elements using a 5-point Likert scale. Consensus was defined as ≥70% rating an element as 'definitely include' or 'definitely exclude'. Equivocal elements were presented again in the next round. We emphasised that the eventual content of the SCP would be adapted to every individual patient's melanoma stage and treatment phase.

24 25

After three rounds, thirty-two survivors (84.2%) and 15 HCPs (57.7%) participated, with 26 respectively 27 (71.1%) and 10 (38.5%) completing all three rounds. Consensus was reached on 27 24 out of 44 elements to be included in a melanoma SCP (Table 1). The majority of agreed 28 29 elements belonged to category 1 or 3. Most elements in category 2 and 4 remained equivocal. 30 Notably, major differences in opinion between survivors and HCPs were observed, with survivors mainly rating elements concerning improving coordination, and HCPs mainly rating 31 © The Author(s) 2023. Published by Oxford University Press on behalf of British Association of Dermatologists. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted reuse, distribution, and reproduction in any medium, provided the original work is properly cited.

1 elements related to improving psychosocial care as desirable to be included. No consensus was

reached on excluding elements from the SCP.

4 The data that support the findings of this study are available from the corresponding author, and

5 will be shared on reasonable request. The need for ethical approval of this study was waived by

the medical ethical committee of the Erasmus University Medical Centre after review of the

study design (MEC-2019-0558 and MEC-2020-0197).

patients to stimulate self-management in future SCP practices^{3, 6, 7}.

The finding that key areas of consensus focused on information and education, and oncological follow-up, underscores the importance of clear, actionable information throughout the entire disease trajectory. This aligns with traditional content and formats of SCPs³. However, our study also suggests the need for expansion of traditional SCP content by providing e.g., comprehensive information about the whole care process, advice on decisions regarding (systemic) therapy, a personal follow-up schedule and elements supporting self-management in detecting recurrences. This is consistent with previous literature emphasising the importance of adequate patient education throughout the treatment process⁵ and on survivor engagement and empowering

Notably, elements related to psychosocial support were not deemed crucial for inclusion, while previously stressed as important.^{1, 2} This may indicate that patients do not perceive SCPs as the appropriate platform for this information. Additionally, our study revealed diverging perspectives between melanoma survivors and HCPs, particularly regarding psychosocial support and care coordination. For instance, tools to enhance information transmission were valued highly by survivors but less so by HCPs. This discrepancy echoes previous research demonstrating lower patient satisfaction levels with care coordination compared to HCPs' perceptions⁸. Understanding the reasons behind these differences could provide valuable insights into refining SCP content. Furthermore, differentially weighting of melanoma survivors' and HCPs views should be considered, as SCPs are primarily designed for patients.

30 This study had several limitations, including the regional restriction of the participant sample.

31 However, given that melanoma care is organised in similar networks (in which systemic

- 1 treatment is centralised) across the Netherlands, our findings are likely applicable to other
- 2 melanoma centres within the country, and potentially internationally if melanoma care is
- 3 embedded in similar networks.

4

- 5 In conclusion, the findings highlight the importance of providing adequate information
- 6 throughout the entire disease trajectory, and personal oncological follow-up supporting self-
- 7 management. Furthermore, the study underscores the value of understanding and addressing
- 8 potential divergences in perspectives between survivors and HCPs. By exploring and
- 9 overcoming these differences and incorporating the consented elements into the design of a
- melanoma SCP, its implementation and effectiveness in practice can be facilitated, leading to
- 11 SSC tailored to stakeholders' needs.

12

13

Acknowledgements

- 14 We would like to thank all melanoma survivors and HCPs that participated in this study. In
- 15 addition, we would like to thank Marije Stenstra, melanoma survivor representative, Rick
- Waalboer-Spuij, dermatologist and Belle de Rooij, specialist in SSC for reviewing the e-Delphi
- 17 concerning content and language. Furthermore, we would like to thank Julia van den Broek and
- 18 Esther de Bijl for their contributions to the e-Delphi development

19

- 20 Nadia C.W. Kamminga, Marlies Wakkee, Inez Swart, Tamar E.C. Nijsten and Marjolein
- 21 Lugtenberg^{1,2}

22

- ¹Department of Dermatology, Erasmus MC Cancer Institute, University Medical Center
- 24 Rotterdam, The Netherlands
- ²Department Tranzo, Tilburg School of Social and Behavioral Sciences, Tilburg University,
- 26 Tilburg, The Netherlands

27

- 28 **Correspondence:** Marjolein Lugtenberg
- 29 **Email:** m.lugtenberg@erasmusmc.nl

30

31 **ORCiD:** NCWK - https://orcid.org/0000-0002-8386-2540

1	MW - https://orcid.org/0000-0001-8578-901X
2	IS - https://orcid.org/0000-0002-5225-3363
3	TECN - https://orcid.org/0000-0001-9940-2875

ML - https://orcid.org/0000-0002-4117-2154

4 5

- 6 Funding sources: This study was multi-sponsored by Bristol Myers Squibb (BMS), Merck
- 7 Sharp & Dohme (MSD), Novartis and Pierre Fabre. The sponsors were not involved in the
- 8 design of the study, data collection, data analysis, manuscript preparation and/or publication
- 9 decisions.
- 10 **Conflicts of interest:** None to declare.
- 11 Data availability: The data underlying this article will be shared on reasonable request to the
- 12 corresponding author.
- 13 **Ethics statement:** The need for ethical approval of this study was waived by the medical ethical
- 14 committee of the Erasmus University Medical Centre after review of the study design (MEC-
- 15 2019-0558 and MEC-2020-0197).

16

17

References

- 18 1. Kamminga NCW, van der Veldt AAM, Joosen MCW, de Joode K, Joosse A, Grunhagen
- 19 DJ, et al. Experiences of resuming life after immunotherapy and associated survivorship care
- 20 needs: a qualitative study among patients with metastatic melanoma. Br J Dermatol. 2022.
- 21 2. Kamminga NCW, Wakkee M, De Bruin RJ, van der Veldt AAM, Joosse A, Reeder SWI,
- 22 et al. Oncological healthcare providers' perspectives on appropriate melanoma survivorship care:
- 23 a qualitative focus group study. BMC Cancer. 2023;23(1):278.
- 24 3. Hewitt M, Greenfield S, Stovall E. Lost in transition. From cancer patient to cancer
- 25 survivor. 2005:1-506.
- 26 4. Netherlands HCot. Follow-up in Oncology. Identify objectives, substantiate actions. The
- 27 Hague: Health Council of the Netherlands, 20072007.
- 28 5. Cartee TV, Alam M, Armbrecht ES, Behera A, Lawrence N, Bordeaux JS, et al. Patient-
- 29 Centered Outcomes for Skin Cancer Management: Utilization of a Patient Delphi Process to
- 30 Identify Important Treatment Themes, Dermatol Surg. 2019;45(2):246-53.
- 31 6. Vaz-Luis I, Masiero M, Cavaletti G, Cervantes A, Chlebowski RT, Curigliano G, et al.
- 32 ESMO Expert Consensus Statements on Cancer Survivorship: promoting high-quality
- survivorship care and research in Europe. Ann Oncol. 2022;33(11):1119-33.
- van de Poll-Franse LV, Nicolaije KA, Ezendam NP. The impact of cancer survivorship
- 35 care plans on patient and health care provider outcomes: a current perspective. Acta Oncol.
- 36 2017;56(2):134-8.

- 1 8. Mohr DC, Benzer JK, Vimalananda VG, Singer SJ, Meterko M, McIntosh N, et al.
- 2 Organizational Coordination and Patient Experiences of Specialty Care Integration. J Gen Intern
- 3 Med. 2019;34(Suppl 1):30-6.

4



Table 1 Elements reaching consensus / no consensus per main category of SSC

Information	С	Personal information incl. (1) melanoma stage, (2) Breslow thickness and (3) treatments. General information about (4) diagnosis;
and		treatment, including (5) schedule with all treatment steps, (6) surgical removal of the melanoma, (7) scans during treatment, (8) sentinel
education		node procedure, (9) (adjuvant) systemic treatments, (10) possible side effects, (11) treatment effectiveness and (12) possible long-term and
		late effects; (13) decision for (adjuvant) systemic therapy; (14) advice in the decision for (adjuvant) systemic therapy.
	NC	General information about (15) possibility for a second opinion. (16) Tips/information about informing relatives about the disease. (17)
		Tips/information about informing about the disease at work.
Identification and	C	(18) Overview of where to go in case of various questions and complaints.
treatment	NC	Screening for (19) psychosocial problems, (20) societal problems and (21) physio- and diet related problems. Information about/referral to
		(22) psychosocial support, (23) peer support, (24) guidance in field of work, (25) financial counselling, (26) insurance guidance, (27)
		physiotherapy, (28) dietician, (29) psychosocial support for family and caregivers and (30) info about when to have family checked.
Oncological	C	(31) Personal follow-up schedule. General information about (32) frequency of check-ups and scans incl. (33) explanation; (34) why a scan
follow-up		is needed and what to expect; (35) why the check-ups stop; (36) self-management in detecting recurrences; (37) who to contact in case of
		changes or suspicion of recurrence; (38) tools for detecting recurrences. (39) Melanoma-specific information about a healthy lifestyle.
>	NC	(40) General information about a healthy lifestyle.
Coordination	С	-
	NC	Information about/referral to (41) a care coordinator; (42) hinge consultation; (43) multidisciplinary consultation meetings; (44) tools to
		improve information transmission between healthcare providers.

All 44 elements identified from prior in-depth qualitative research focusing on needs of patients with melanoma (stage I – IV) throughout their disease and treatment trajectory, and HCPs' perspectives (right) per category of SSC (left). C = Consensus to be included, NC = No consensus to be in-/excluded.