



Nationwide multidisciplinary consensus on the clinical management of Merkel cell carcinoma: a Delphi panel

Francesca Spada,¹ Paolo Bossi,² Corrado Caracò,³ Vanna Chiarion Sileni,⁴ Angelo Paolo Dei Tos,⁵ Nicola Fazio,¹ Giovanni Grignani ,⁶ Michele Maio,⁷ Pietro Quaglinò,⁸ Paola Queirolo,⁹ Paolo Antonio Ascierto ,¹⁰ DELPHI Panel Members

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For numbered affiliations see end of article.

Correspondence to

Dr Paolo Antonio Ascierto;
p.ascierto@istitutotumori.na.it;
paolo.ascierto@gmail.com

ABSTRACT

Merkel cell carcinoma (MCC) is a rare and highly aggressive cutaneous neuroendocrine carcinoma. The MCC incidence rate has rapidly grown over the last years, with Italy showing the highest increase among European countries. This malignancy has been the focus of active scientific research over the last years, focusing mainly on pathogenesis, new therapeutic trials and diagnosis. A national expert board developed 28 consensus statements that delineated the evolution of disease management and highlighted the paradigm shift towards the use of immunological strategies, which were then presented to a national MCC specialists panel for review. Sixty-five panelists answered both rounds of the questionnaire. The statements were divided into five areas: a high level of agreement was reached in the area of guidelines and multidisciplinary management, even if in real life the multidisciplinary team was not always represented by all the specialists. In the diagnostic pathway area, imaging played a crucial role in diagnosis and initial staging, planning for surgery or radiation therapy, assessment of treatment response and surveillance of recurrence and metastases. Concerning diagnosis, the usefulness of Merkel cell polyomavirus is recognized, but the agreement and consensus regarding the need for cytokeratin evaluation appears greater. Regarding the areas of clinical management and follow-up, patients with MCC require customized treatment. There was a wide dispersion of results and the suggestion to increase awareness about the adjuvant radiation therapy. The panelists unanimously agreed that the information concerning avelumab provided by the JAVELIN Merkel 200 study is adequate and reliable and that the expanded access program data could have concrete clinical implications. An immunocompromised patient with advanced MCC can be treated with immunotherapy after multidisciplinary risk/benefit assessment, as evidenced by real-world analysis and highlighted in the guidelines. A very high consensus regarding the addition of radiotherapy to treat the ongoing focal progression of immunotherapy was observed. This paper emphasizes the importance of collaboration and communication among the interprofessional team members and encourages managing patients with MCC within dedicated multidisciplinary teams. New insights in the treatment of this challenging cancer needs the contribution of many and different experts.

BACKGROUND

Merkel cell carcinoma (MCC) is a rare and aggressive cutaneous neuroendocrine carcinoma with disputed origin, high risk of recurrence and aggressive behavior. Only limited therapeutic options for advanced disease are available and clinical management of MCC is quite challenging, continuously evolving across multiple specialties.¹

Historically, MCC was first described by Toker² in 1972 as ‘trabecular carcinoma’ and considered of eccrine origin, while it was identified as neuroendocrine origin on electronic microscopy by Tang and Toker 6 years later.³ Finally, it was newly denominated as MCC from the German histopathologist who discovered special cells of the epidermis in the snout skin of a mole in 1875.⁴ These putative mechanoreceptors are evident in many species and in the human skin are called Merkel cells. Their similarities to those of the newfound tumor suggested that they are the source of neoplasm.³ However, another hypothesis suggests that MCC originates from a pluripotent dermal stem cell.⁵ Nowadays, its immunophenotype, very similar to that of the diffused neuroendocrine system, justifies its inclusion among the neuroendocrine neoplasms (NENs) with a skin localization and specific clinical behavior.^{6,7}

Moreover, a special correlation between MCC and the Merkel cell polyomavirus (MCPyV)⁸ was discovered in 2008. This virus is an enveloped double-stranded DNA polyomavirus that infects most of the human population asymptotically. However, it has been speculated that in the elderly and/or immunocompromised subjects it can cause MCC. The integrated viral genomes express mutant MCPyV tumor antigens that are crucial for driving the oncogenic development of MCC.⁹ The virus-related MCC is well distinguished from the non-virus-related MCC, whose

pathogenesis is mainly driven by ultraviolet (UV) radiation and whose most frequent mutations are in tumor-suppressor genes such as RB1, TP53 and genes encoding member of Notch family. Therefore, the cancer susceptibility to immune checkpoint inhibition (ICI) led to a novel approach to the treatment of MCC.^{10,11}

Epidemiology

The incidence of MCC is low, ranging from 0.1 to 1.6 cases per 100,000 people per year worldwide.⁷ However, it has been rapidly increasing over the last 20 years in several countries, especially in Italy, USA, Australia, and Finland. This increase can only be partially explained by improved detection, classification, and coding of MCC.¹²

The incidence in the Caucasian population exceeds 25 times than that in the other ethnic groups. From a geographical point of view, patients with MCC are fair-skinned, living in areas with high UV B-light indices. The highest incidence, observed in Australia⁷ is rising at a 4.2% rate annually. Incidence has been growing in Europe as a whole, and in Italy it is especially evident in men.¹²

The average age at presentation is 69 years old.¹³ The age-adjusted incidence of MCC in Caucasian patients appears to be linearly correlated to the UV B radiation index.¹⁴ The male/female ratio is 2:1 but reports from Finland and China indicate higher incidence in women.^{15,16} Rare cases were described in pediatric age.¹⁷

The most frequently observed localization is in the head and neck, except in patients under 65 years of age and in non-white population. Younger Caucasian patients are more affected in the trunk, while in African Americans the lower extremities are the most common.^{14,18} In a large analysis of 9387 MCC cases, the most frequent primary site was the head and neck (43%), upper limbs and shoulders (24%), lower limbs and hip (15%), trunk (11%), and other localizations (9%).¹⁹

Among the immunosuppressed patients: the risk of developing MCC is approximately 13 times greater in those with HIV infection, 25 times greater in those with organ transplants, and 40 times greater in those with chronic lymphocytic leukemia.^{20,21} Furthermore, immunosuppressed patients have significantly less survival rate compared with immunocompetent patients.²¹

MCCs grow and metastasize quickly, about 6%–8% of patients have metastatic disease at the time of diagnosis.²² MCC shows a strong tendency to form satellite lesions in the skin. At the first presentation, while 50%–65% patients show localized disease, 25%–50% have regional metastases and finally about 10% show distant metastases at the time of first presentation.²²

Several studies have established the presence of MCPyV in the majority (80%) of MCC^{23–25} and antibodies that recognize MCPyV oncoproteins are found in approximately 50% of patients with MCC.²⁶

Clinical presentation

Commonly MCC presents itself as a rapidly growing cutaneous or subcutaneous erythematous or violaceous,

tender, indurated nodule, or mass sessile or fungating, on sun-exposed areas on the head and neck, frequently ulcerated. A different kind of presentation is represented by papules, plaques, cyst-like structure, pruritic tumors of the lower extremities, pedunculate lesions, subcutaneous masses or telangiectatic papules.^{27,28}

The mucosal form, although rare, has a particularly aggressive behavior and represents a known clinical entity.²⁸

While the skin is generally the primary site of MCC, in very rare cases (up to 4%) of nodal only and/or visceral metastases from MCC without a clear cutaneous MCC primary lesion are described; this is named MCC unknown primary (MCC-UP). This entity seems to be identified as a distinct neuroendocrine carcinoma subtype rather than a variant of cutaneous MCC.²²

Metastases could be localized in the skin, lymph nodes, lungs, adrenal glands, pancreas, liver, brain, and bones.²⁹

Prognostic factors

Factors such as the location, the presence or absence of skin lesion, the age of occurrence either under or over 50 years of age, gender, lymph nodes involvement, metastases at diagnosis, the role of the immunodeficiency status and the size either less or greater than 2 cm, which may influence MCC progression are not well defined.³⁰

Overall, survival in MCC depends mainly on the stage at clinical diagnosis^{31,32}: 81% survival rate for stage I; 67% for stage II, 52% for stage III and 11% for stage IV.

Diagnosis

Diagnosis is through clinical examination followed by tissue biopsy³³ as the clinical appearance is non-specific and can mimic a variety of benign and malignant skin lesions.

The acronym AEIOU³⁴ summarizes the major features to be considered for the clinical diagnosis: Asymptomatic/lack of tenderness, Expanding rapidly, Immune suppression, Older than 50 years, and Ultraviolet-exposure.

However, the diagnosis is pathological with the finding of small and medium-sized cells expressing neuroendocrine and epithelial markers, synaptophysin, chromogranin-A, cytokeratin 20 and neurofilaments (with dot-like phenotype). Furthermore, at the histological examination, MCC, both positive and negative MCPyV, is distinguished by a rich lymphocytic infiltrate which represents one of the main characteristics of these neoplasms.³⁵ MCC appears as an expansible, nodular, or diffusely infiltrative neoplasm within the dermis, variably in subcutis. It may present a variable mixture of nodules, sheets, nests, and trabeculae of neoplastic cells. An intraepidermal component is occasionally present. The neoplastic MCC cells appear as small, round, blue tumor cells with a high nucleus–cytoplasm ratio, round/oval nuclei, finely dispersed chromatin (salt and pepper), indistinct nucleoli, and scant cytoplasm.²⁹

Ultrasonography and ultrasound-guided fine needle biopsy may be useful for pathological diagnosis and, particularly, for the head and neck localizations.^{36,37}

Staging classification and prognostic stage groups for MCC are based on the American Joint Committee on Cancer (AJCC) staging system, eighth edition. Staging classification includes the location of the primary site (T), a clinical evaluation of regional lymph nodes (clinical N), a pathological evaluation of regional lymph nodes (pathological N), and a definition of clinical and pathological distant metastasis (M). Regarding the prognostic staging, AJCC eighth edition includes six different groups (0, I, IIA, IIB, III, IV) and seven pathological stage groups (0, I, IIA, IIB, IIIA, IIIB, IV) according to the tumor, node, metastasis classification.³⁸

Treatment

Treatment options are based on the stage of the disease. For patients with localized MCC, surgery is the primary treatment modality typically followed by radiotherapy (RT).¹⁹ In accordance with the National Comprehensive Cancer Network (NCCN) clinical practice guidelines, the first step for treating early-stage MCC is surgery to remove the primary cancer, followed by sentinel lymph node biopsy and postoperative RT may also be considered.³⁹ Furthermore, it is recommended that patients with stage I and II be treated with radical excision with 1–2 cm margins followed by adjuvant (adj) RT when negative risk factors like lymphovascular invasion or immunosuppression are present. Adj chemotherapy (CT) for stages I–II is not recommended. For patients in stage III or unresectable disease, lymph node dissection and/or RT is generally recommended. The NCCN guidelines also mention that the preferred option for patients with regional disease in stages II and III is the inclusion in clinical trials.³⁹

Correct treatments for early-stage MCC are associated with a good overall survival (OS) and reduced rates of relapse and mortality. A high proportion of patients not adequately and timely treated or immunocompromised, as well as patients with an aggressive MCC progress to metastatic disease. Considering that the prognosis of metastatic MCC (mMCC) is very poor, it is essential that patients with early-stage MCC are treated in the most complete and rapid manner.⁴⁰ European guidelines in 2015 stated that, apart from surgical removal of isolated metastases, there is no established curative treatment for mMCC.⁶

Until some years ago the treatment of choice for advanced disease has been CT as well as in poorly differentiated NENs with a median of 3–4 months progression-free survival (PFS), less than median 10 months OS, and significant toxicity.⁴¹

Immunotherapy has been extensively studied in MCC in recent years.

To date, different immune checkpoint inhibitors (avelumab, pembrolizumab and nivolumab)^{42–44} have been shown to be active in the treatment of advanced MCC³⁹: in 2017 the European Commission approved

avelumab as monotherapy for the treatment of mMCC, regardless of the line of therapy.⁴⁵

A Delphi conference has been organized, involving various Italian centers with a focus on metastatic disease, to show how patients with MCC are managed and to share the expertise of all the specialties potentially involved in the clinical management of the disease, such as surgery, immunology, medical oncology, RT, and dermatology, integrating skills and different know-how. The aim is to revise the state of art of MCC, to highlight the Italian expert perspective regarding important issues in clinical practice of management of MCC, and to address some of the limitations of the current NCCN guideline on the topic. Ultimately, this manuscript is a consensus statement on the multidisciplinary management of MCC developed by an Italian group, using a robust methodology, referencing important trials and articles in the field and highlighting areas of ongoing controversy of international interest.

METHODS

Consensus statement policy

The Delphi technique, developed in 1962,⁴⁶ is a process used to achieve a consensus concerning real-world knowledge from experts related to certain areas. The name derives from the Delphic oracle's skills of interpretation and foresight. Delphi is a well-established methodology used in the scientific field.^{47–49}

The Delphi process traditionally begins with a questionnaire based on an extensive review of the literature; the collected information is converted into another specific questionnaire used as the instrument of the survey. Each Delphi participant is asked to review and rate the summarized statements so that areas of consensus and non-consensus can be identified. In subsequent rounds, each Delphi participant receives a third questionnaire that includes the statements and ratings, and participants are asked to re-evaluate their initial judgment.

Expert board and consensus panel

In December 2020 a multidisciplinary board of 10 experts, based on their documented expertise in the MCC field, met to review the current landscape of the disease and identify key topics for clinical management. The expert board included seven medical oncologists with a wide expertise in NENs, melanomas, and immune oncology, one pathologist, one dermatologist and one plastic surgeon.

At the end of the topic selection process, replies and redundancies were eliminated and 28 items were generated for testing across a wider audience using the Delphi questionnaire. The statements were divided into five areas: multidisciplinary management (4 items), diagnostic pathway (9 items), clinical management aspects (12 items), follow-up (2 items) and guidelines (1 item).

A Likert scale was used (1=no agreement to 7=maximum agreement) to evaluate the degree of agreement with

each of the statements proposed in the questionnaire. All activities were coordinated by a facilitator.

All members of the expert board disclosed potential conflicts of interest.

All the Italian specialized centers dedicated to care and management of patients with MCC were contacted and asked for volunteer participation using the following criteria:

- ▶ Clinical experience: at least 2 years of experience in the field as an attending physician or a consultant.
- ▶ Clinical research experience: participation in drafting guidelines, or at least one scientific publication or conference abstract in the last 36 months in the field.

Questionnaire

The Delphi questionnaire was submitted via the web. This method granted anonymity, absence of interference among the panelists and safety from the SARS-CoV-2 pandemic. The link to the web was sent by email with a maximum of three reminders. The definitions for consensus and non-consensus were decided a priori.

At the end of the first round (January 15, 2021 to February 4, 2021) the median value and the 25th and 75th percentiles (75th p and 25th p, interquartile range) of each statement were calculated.

In the second round (February 8, 2021 to March 3, 2021), people were asked to answer the same statements considering the interquartile range (IQR) of each question (which represents the range in which 50% of the answers fell) as an index of their colleagues' responses. Those who answered outside the IQR in the second round were asked to give a reason for their response. At the end of the second round, the median value and the 25th and 75th percentiles of each statement were calculated again.

The results of the first and second rounds and the motivations of those who had answered outside the IQR, were discussed by the expert board at the 'verification meeting' (April 2021). After discussing and commenting on the results of each of the 28 statements, the expert board members formulated the counter motivations. Since all 28 statements reached agreement and consensus it was decided not to proceed with the third round. The flow chart of the analysis is presented in [figure 1](#).

The statements were ranked based on the 25th percentile and the IQR ([figure 2](#)):

- ▶ **INDECISION IN THE EVALUATION:** Those statements that have the 25th percentile ≥ 4 and IQR 4–4 or 25th percentile < 4 and IQR 3–5 belong to this group.
- ▶ **AGREEMENT AND CONSENT WITH THE STATEMENT:** Affirmations that have the 25th percentile ≥ 4 and IQR ≤ 2 but different from 4 to 4 belong to this group.
- ▶ **AGREEMENT AND LOW CONSENT WITH THE STATEMENT:** Those statements that have the 25th percentile ≥ 4 and IQR ≥ 3 belong to this group.
- ▶ **DISAGREE AND CONSENT WITH THE STATEMENT:** Those statements that have the 25th percentile < 4 and IQR ≤ 2 belong to this group.

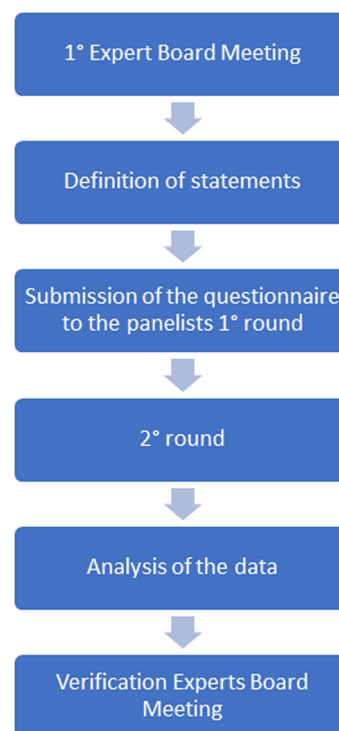


Figure 1 Flow chart of the analysis.

- ▶ **DISAGREE AND LOW CONSENT WITH THE STATEMENT:** Those statements that have the 25th percentile < 4 and IQR ≥ 3 belong to this group. Stata V.16.1 software was used for the analyses.

RESULTS

The statements represent a nationwide expert consensus on the management of patients with MCC. The conclusions of the consensus panel, as set forth in this paper, outlines the panel's final opinion and should not be used as a substitute for the individual professional judgment of the treating physician.

Participants

Sixty-six panelists answered the questionnaire at the first round, and 65 at the second round.

The distribution of the panel was 59.1% oncologists and oncologists/radiotherapists and 40.9% other specializations (pathologist, surgeon, plastic surgeon, dermatologist) ([figure 3](#)). With regards to the geographic distribution, the panel was well representative of the Italian situation (51.5% North, 25.8% Center, 22.7% South and Islands). Over 70% of the participants declared over 10 years of experience in MCC field.

Analysis and consensus recommendations

1° area: multidisciplinary management

There was almost total agreement from the first round with the maximum score (7) given by over 70% of the experts in all statements of this area except the first.

For statements 2 and 3, 98% and 97% of panelists, respectively, awarded the maximum score of agreement

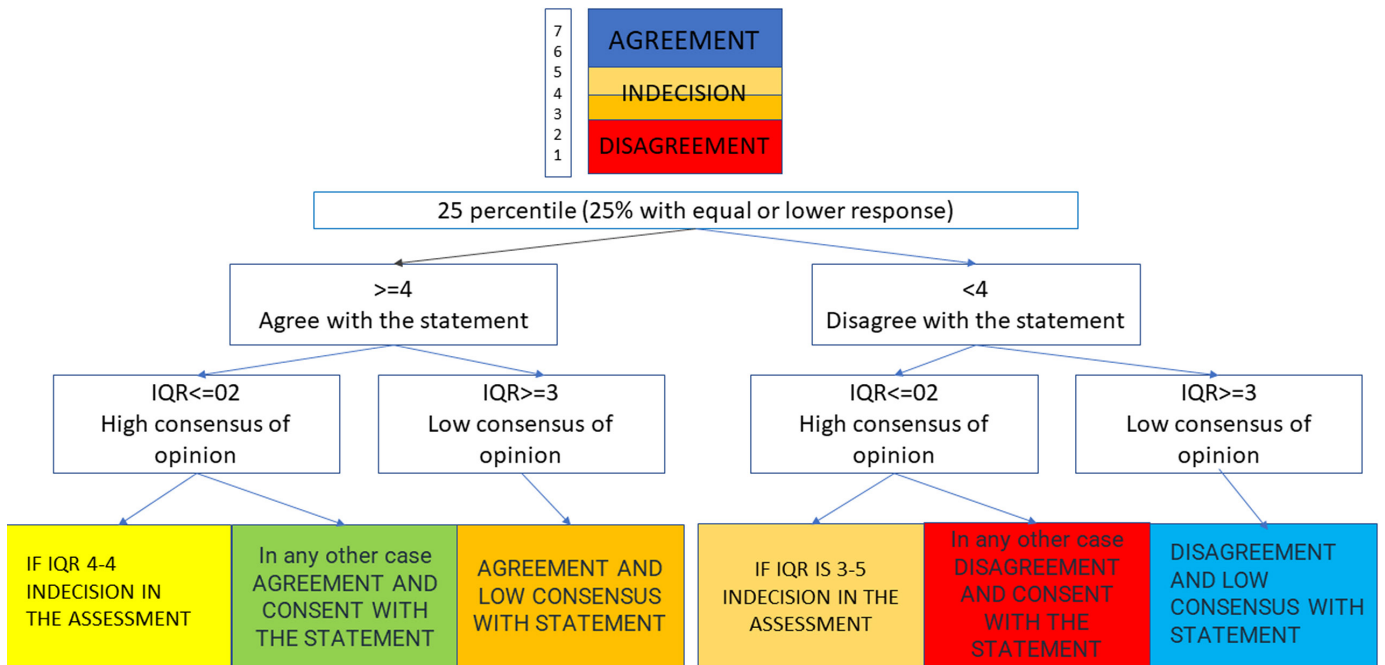


Figure 2 Statement ranking.

(7); those who do not give score 7 regarding the need for a path shared by a multidisciplinary team (statement 2), nevertheless assign a high score (6). For statement 27, in the second round we have 100% of experts who give the maximum score of agreement (7) regarding the need for hub and spoke function.

Statement 1 is the one showing relatively more variability. In Round 2, 30% of experts awarded score 6 and 66% experts awarded score 7. One expert awarded score 1 because his center does not have a team.

In this area, subanalyses by geographical area and by specialization do not show any significant variations between geographical areas and a greater consensus among other specialists compared with oncologists.

With regards to S3, the expert board concluded that it should be recommended that a plastic reconstructive

surgeon and a nuclear medicine expert be included in the multidisciplinary team. In real life, the multidisciplinary team may not always be represented by all the specialists requested. Therefore, the expert group recommends an initial multidisciplinary discussion to define the right therapeutic strategy as soon as possible.

The panel stated that considering that although MCC is a very rare skin cancer that may initially be noted by the general practitioner or an internist, and referred to a dermatologist for a definitive diagnosis, establishing a multispecialist management immediately after diagnosis is crucial.

2° area: diagnostic pathway

Although agreement has been reached since the first round regarding the usefulness of the positivity or negativity of MCPyV in the pathological evaluation (statement 4) there is a certain variability in the responses (therefore a lesser consensus), with 32% of respondents in the second round giving a score of 5. Both the two experts

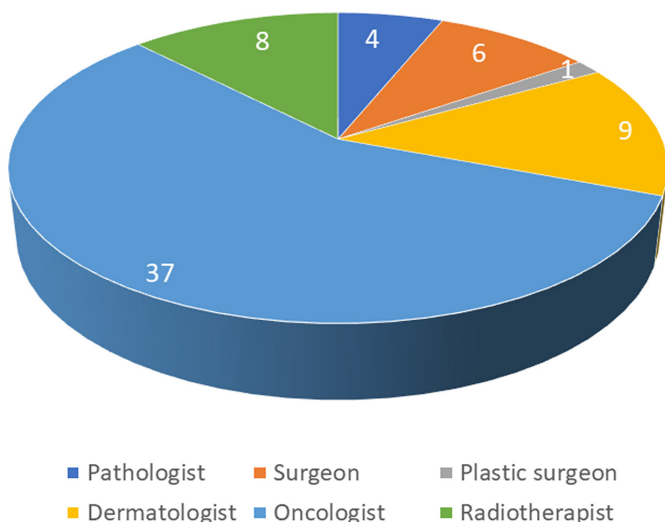


Figure 3 Distribution of the panel by specialization.

Box 1 Multidisciplinary management statements

- S1—At my center the most appropriate therapeutic diagnostic path is shared and discussed within a multidisciplinary team.
- S2—Faced with new diagnosis of Merkel cell carcinoma (MCC) the therapeutic diagnostic path should be shared by a multidisciplinary team.
- S3—The multidisciplinary team should include at least: an oncologist, a surgeon, a dermatologist, a pathologist, a radiotherapist, and a radiologist.
- S27—The patient with MCC should be managed within a dedicated network with hub and spoke centers, with reference centers that have a multidisciplinary team.

Box 2 Diagnostic pathway statements

S4—In the minimal criteria for pathological evaluation I believe that the inclusion of the positivity/negativity of polyomavirus is a useful addition.

S5—In the criteria for pathological evaluation I believe that the inclusion of the expression data of cytokeratin 20 (positive) with paranuclear pattern 'dot-like' and thyroid transcription factor 1 (negative) is necessary.

S6—In the pathological report, the essential information to be reported is: site, maximum size expressed in cm; extracutaneous extension (bone, muscle, cartilage belt); lymphovascular invasion; state of the deep and peripheral margins; pathological Tumor-Node-Metastasis (pTNM).

S7—In the pathological report it is also strongly recommended to indicate: thickness in mm; mitotic index (number of mitoses/mm²); infiltrated tumor lymphocyte (absent, brisk, not brisk); growth pattern (nodular vs infiltrative).

S8—The following are to be considered as elements for diagnostic framing: age, phototype, center of the lesion, evolution, immunocompromised (transplanted patient, onco-hematologic, positive HIV, with necessity of immunosuppressive therapy).

S9—For proper staging in relation to the site of disease, the imaging tools I consider necessary are CT and/or MRI and/or ultrasound of the lymph node station.

S10—In the preoperative staging I consider the positron emission tomography/CT with 18F-fluorodeoxyglucose necessary.

S11—Sentinel lymph node assessment is necessary for reliable diagnosis/staging in the absence of clinical and/or radiological evidence of lymph node involvement.

S16—The involvement of several lymph node stations belonging to different districts and not radically resectable is considered as a metastatic disease.

who assign score 4, and the two assigning score 3 provide the justification that the presence of such an indication does not change the therapeutic choice and does not seem to influence the response to treatment. The experts counteract that MCPyV today is not a minimum pathological criterion but could have important strategic therapeutic implications to complete the characterization in the near future. The agreement and the consensus regarding the need for cytokeratin data (statement 5) is greater, with 97% of the experts giving a score of 6 or more at the second round. The experts highlighted that cytokeratin 20 must be positive and the thyroid transcription factor 1 (TTF-1) must be negative to exclude a small cell lung cancer.

Moreover, there is very high agreement and consensus that the site and maximum size of the lesion expressed in 'cm' is an essential information for the clinical report (S6), with only one expert in the second round assigning a score of 6 who confirms the usefulness of parameters for prognostic evaluation. Then, about the thickness in 'mm' (S7) in the second round, 63% of experts assign 7 and 37% assign 6 with no expert coming outside the IQR range of reference. Statement 8 in fact has all scores equal to 6 or 7, except for a case that assigns 5, but specifying that they are important elements. Statement 9 achieves 100% of votes between 6 and 7. The use of the 18F-fluorodeoxyglucose (18F-FDG) positron emission tomography

(PET)/CT (S10) shows a little more variability (less consensus) in the answers, with 73% of experts assigning a score equal to or greater than 6. One of the reasons for the lower scores is that the 18F-FDG PET/CT does not change the surgical indication if total body CT scan is already negative for distant metastases, and the need for the examination depends on the extent of the primary site and possible lymph node involvement. Although rare, a stage I MCC does not require 18F-FDG PET/CT. The experts counteract that in clinical practice the 18F-FDG PET/CT is proposed when there is a doubt in the radiological imaging interpretation. Among the different experts' comments, it can be noted that 18F-FDG PET/CT may be overloaded by the need of the double contrast because 18F-FDG PET/CT scan images could underestimate brain, liver and/or lung damage, therefore also requiring CT-related contrast medium. Statement 10 was also analyzed by specialization, highlighting less consensus among oncologists than other specialists.

High consensus and agreement have been reached regarding the need for evaluation of sentinel lymph node (S11), with all votes equal to 6 and 7 except for an expert who assigned 4, deeming it useful but not necessary. The experts highlighted that the evaluation of sentinel lymph node is necessary as it represents an opportunity for in-depth analysis and therapeutic diagnostic algorithm. For the statement number 16, 100% of the panelists awarded a score of 6 or more.

3° area: clinical management

The 32% of the experts completely agreed with statement number 12 and a further 28% assigned a score equal to 6, while 50% of the experts expressed a score between 5 and 6 regarding statement 13. In the S12 the analyses based on geographical areas and specializations show a lower agreement between participants from southern Italy and Islands than from the other two geographical areas. A similar observation can be considered between oncologists and the other specializations. A different agreement depending on the geographical area can be noted also for the S13. For both statements, the panelists' reason for not agreeing fully was that there is no scientific evidence of its usefulness in terms of survival. However, the experts highlighted the need to increase awareness of this topic due to a wide dispersion of the results.

Moreover, 45% are completely in agreement with statement 14 and a further 54% assigned a score of 6, while only one panelist assigned score 5. Sixty-two per cent of the participants are completely in agreement with statement 17 and 37% assigned a score equal to 6, with no differences for geographical area and specialization. Only one panelist assigned score 3, objecting that the data available on safety and efficacy of treating immunocompromised patients with cancer using immunotherapy are limited and many of the clinical trials tend to exclude patients with pre-existing immunodeficiency, thus many of those patients could be undertreated, underdosed, or have an early interruption. The experts replied that

Box 3 Clinical management statements

12. I always consider the possibility of an adjuvant radiotherapy on the previous site of the primary lesion.
13. I always consider the possibility of an adjuvant lymph node radiation therapy.
14. In case of only lymph node disease, with no evidence of primary cutaneous location and distant metastasis, I would adopt the same therapeutic strategy as the locally advanced Merkel cell carcinoma (MCC) with known primary site.
17. An immunocompromised patient with advanced MCC can be treated with immunotherapy after multidisciplinary risk/benefit assessment in collaboration with the specialists treating him (hematologist, infectiologist, rheumatologist, etc).
18. In a patient with complete clinical-instrumental response I would consider suspending treatment based on the clinical characteristics, response duration and after discussion with the patient.
19. In a patient on immunotherapy I would continue the treatment even beyond progression, in the presence of clinical benefit.
20. In clinical practice I would apply the immune Response Evaluation Criteria in Solid Tumours (RECIST) criteria for the management of patients over time and evaluation under immunotherapy.
21. In the case of curative surgery with demolitive impact, I would discuss with the patient alternative therapeutical medical and/or radiotherapeutic options.
22. The patient with regional recurrence no longer susceptible to radical surgery should be managed with radiotherapy and/or medical therapy (first immunotherapy or if contraindications alternatively chemotherapy).
23. During immunotherapy I would treat the focal progression with the addition of radiotherapy.
24. I consider the design and conduct of the JAVELIN Merkel 200 registration study (part A and part B) with avelumab, entirely adequate to obtain reliable results.
25. I believe that the expanded access program data for avelumab have concrete clinical implications for patient management with metastatic MCC.

several immunocompromised patients were included in the real-world analysis and responded well to the treatment. Avelumab has no flag for immunocompromised patients. This information was also highlighted in the guidelines.

The agreement on treatment discontinuation in a patient with complete instrumental response (S18) is slightly lower than 80% for experts assigning a score equal to or greater than 6, with an interquartile interval ranging from 5 to 6, and 17% of the panelists who assigned 4 placing themselves in a position of ‘impartiality’ with respect to the claim. There is a somewhat lower agreement and consensus in southern Italy than in other geographical areas, while no differences in specialization are noted. The participant scoring 2 affirmed that treatment should be continued, and the expert group agreed that this is an open point. The complete response should be evaluated together with risk/benefit of adverse events and therefore there is a difference between CT and immunotherapy.

About 80% of the panelists assigned a score equal to or greater than 6 to statements 19 and 20. There is a

Box 4 Follow-up statements

15. In the presence of disease without diagnosis of cutaneous primitivity, the prognosis is better overall, at equal stages N and M.
28. I believe clinical radiological follow-up is always needed in patients with Merkel cell carcinoma.

total agreement with regards to statement 21, with 100% scores equal or about 6.

Regarding the statements number 22 and 23 there is an almost total agreement. In the former, 100% of scores are equal to or greater than 6 and in the latter only two experts awarded a score of less than 6 regarding the addition of RT to treat the ongoing focal progression of immunotherapy. The objection was that there is no solid evidence on the usefulness of the addition of RT, but the group of experts replied that it is a rare disease, and more clinical evidence must be gathered.

All (100%) experts agreed that the information concerning avelumab provided by the JAVELIN Merkel 200 study is adequate and reliable and that the expanded access program (EAP) data has concrete clinical implications.

4° area: follow-up

With regards to the best prognosis in the presence of disease without diagnosis of primitivity (S15), 41% of panelists awarded a score of 6 and more and a further 35% assigned a score equal to 5 with an IQR ranging from 5 to 6; 23% assigned 4 placing themselves in a position of ‘impartiality’ with respect to the claim, with no difference between the three groups.

In the second round, 100% of the participants gave the maximum score of agreement 7 regarding the need for clinical radiological follow-up.

5° area: guidelines

Only one panelist awarded a less than 6 score for clarity and usability of guidelines. This panelist believes that the NCCN guidelines are more up to date. However, it is important to point out the difference between guideline methodologies: the Italian Association of Medical Oncology (AIOM) guidelines are formulated with specific questions based on the Scottish Intercollegiate Guidelines Network (SIGN) and Grading of Recommendations, Assessment, Development and Evaluations (GRADE) methods.^{50 51}

The NCCN is a non-profit alliance of 31 USA leading cancer centers devoted to patient care, research, education and facilitating quality, effective, efficient, and

Box 5 Guidelines statement

26. I believe the indications in the national guidelines that refer to the Italian Association of Medical Oncology and international guidelines such as those of the National Comprehensive Cancer Network, are clear and usable.

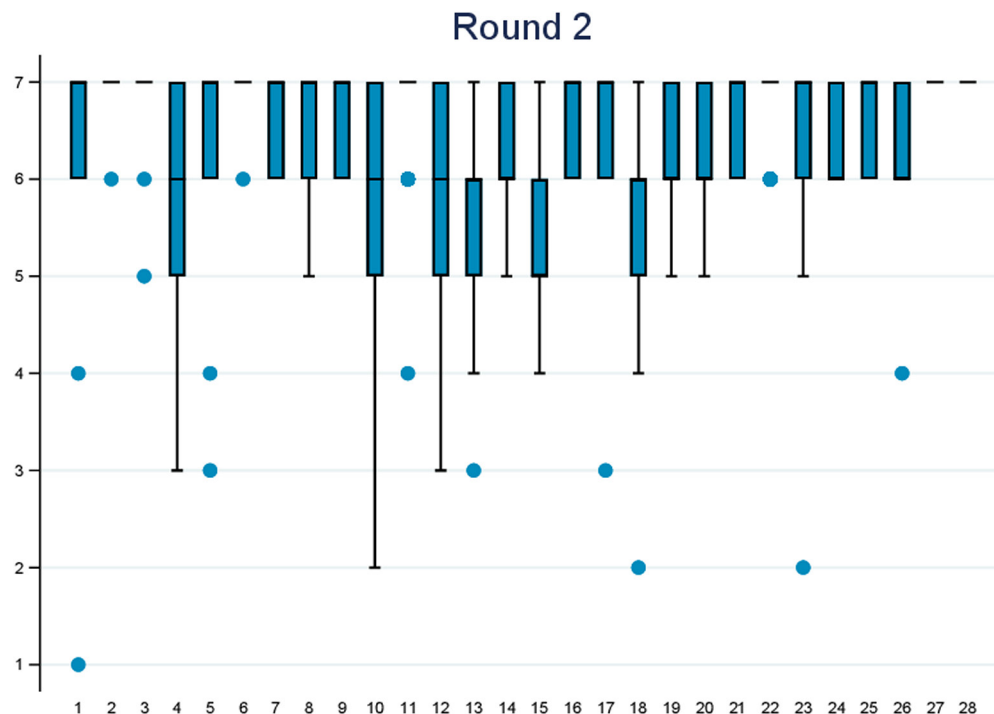


Figure 4 Consensus situation by statement at the end of the second round.

accessible cancer treatment. NCCN outputs are continuously updated and downloadable. MCC guidelines are available at V.1.2022.³⁹

The AIOM brings together Medical Oncology practitioners to highlight their progress and technical-professional and managerial training; to foster relationships between medical oncologists, and specialists in other disciplines; to establish scientific relations with other Italian and foreign Scientific Societies and Associations; to participate and collaborate with national, regional, and local institutional bodies. In particular, AIOM aims to help develop guidelines (in Italian) for several types of cancer. The latest edition of MCC guidelines was published in 2020 as part of the NENs Guidelines.⁵²

Figure 4 represents the consensus reached at the end of the second round.

For each statement, the median and IQR are reported for each round, together with the percentage of responses modified in each round. The bar chart and box plot were used to represent the distribution of responses to individual statements for each round (online supplemental file 1).

DISCUSSION

Several aspects can be derived from this Delphi poll on the clinical management of MCC. First of all, although considered a rare cancer, over the last years a high increase in publications about MCC since 2017 has been observed, probably due to the increase in incidence and the growth in research.

Moreover, the Delphi poll findings demonstrate the importance of collaboration and communication among the interprofessional team to ensure rapid detection, complete work-up, and initiation of appropriate therapy for patients with MCC. Various guidelines recommend in theory a multidisciplinary treatment approach for MCC, including wide local excision, systemic medical therapies, and RT.³⁹

In clinical practice, a multidisciplinary team collaborating in the decision-making process, should be mandatory and established early for the management of patients with MCC. The literature highlights that such approach has a major influence on treatment management in most cases leading to a significant modification of an established treatment plan.⁵³

The panelists agreed that cases of MCC be discussed and referred to dedicated centers as soon as possible. The improvement in new therapeutical opportunities for this rare pathology needs expertise and multidisciplinary approach. Indeed, the analysis of 5304 cases of MCC at stage I–III of the US national cancer database showed a 62% 5-year survival rate in high-volume centers compared with 56% at lower-volume facilities ($p < 0.001$).⁵⁴

Considering the limited data available regarding an optimal treatment, a multidisciplinary approach can bring maximum benefit to the management of primary and positive cases of unknown MCPyV.⁵⁵ Moreover, from a practical point of view, the expertise of a multispecialistic team can be useful in managing the potential immune-mediated events coming from the increased use of immunotherapy.⁵⁶

With regards to the flow of MCC management there are some objections, among participants due to the absence of solid evidence. It is, however, important to note that the experts knowledge is based on clinical experience. This is why, even if international and national guidelines are considered useful, clear, and usable for all the physicians interviewed as a solid tool to support clinical decisions, they should be integrated by dedicated multidisciplinary clinical expertise.

With reference to diagnostic procedures, from the results of the poll it can be argued that many experts, but not all, are in line with the most up-to-date diagnostic methods such as the immunohistochemistry (IHC) analysis and the nuclear medicine characterization.

IHC is essential to distinguish MCC from its mimics^{11 19 57}; since MCCs are considered neuroendocrine carcinomas which express a set of epithelial and neuroendocrine markers, IHC facilitates the pathological diagnosis. It should be noted that if optical microscopy alone is used, a misdiagnosis risk of around 66% has been reported.³⁰ Characteristically, MCC expresses CK 20, neuroendocrine markers (chromogranin A, synaptophysin, CD56), neurofilament, special AT-rich sequence binding protein-2 (SATB2) and often MCPyV. In most MCCs, tests with positive results for low molecular weight CK (CK8, CK18, CK19 and CK20) can be appreciated, while high molecular weight CK7 is not expressed. Most studies conclude that positive results for CK20 expression along with negative results for CK7 provide an accurate diagnosis in 90% of cases.³⁰ This cytokeratin presents a highly characteristic cytoplasmic paranuclear dot-like pattern and can be considered crucial for the diagnosis. The absence of CK20 expression does not dismiss MCC as diagnosis. Cases of MCC with CK7 +and CK20–cells have also been reported in the literature.³⁰ TTF-1 is a nuclear protein involved in regulating transcriptional activity during embryonic development of the thyroid gland and respiratory epithelium.⁵⁸ In general, it is positive in small cell lung carcinomas and thyroid cancers and negative in MCC; a negative TTF-1 finding is more specific than a positive CK20 result, because TTF-1 is expressed in very few (3%) MCC, whereas CK20 can be negative in a considerable proportion (20%) of cases.³⁰ Additional markers available to differentiate these neoplasms include SATB2, which has been recently shown to be reactive in MCC.⁵⁹

In recent years, efforts have been aimed at exploiting the presence of MCPyV oncoproteins in MCCs to develop targeted therapies for virus-positive MCC cancers.^{60–63} Patients who produce antibodies have a better prognosis compared with antibody-negative patients⁶⁴; indeed, patients who do not produce antibodies at baseline have an approximately 42% increased risk of recurrence.²⁶ In addition, in patients who have baseline positive MCPyV antibody titers, changes in titers over time reflect changes in MCC disease evolution.^{26 65} Testing MCPyV antibody can optimize surveillance in conjunction with imaging studies; an increasing titer prompts imaging studies to confirm and localize recurrence in a timely manner, while

a decreasing titer indicates that there is no recurrence or that the cancer is reduced significantly.⁵³

Imaging plays a crucial role in diagnosis and initial staging, planning for surgery or radiation therapy, assessment of treatment response and surveillance of recurrence and metastases.⁶⁶ Moreover, in locally advanced disease or distant metastases, imaging plays an important role in determining the location of the primary tumor and identifying the local–regional invasion to guide surgical or radiation therapy, in particular in the head and neck, due to its anatomic complexity.⁶⁶

The 18F-FDG is the only PET tracer indicated for imaging MCC, providing high levels of sensitivity and specificity⁶⁷ for typically highly metabolic neoplasms. Recent studies seem to demonstrate an increased sensitivity of 18F-FDG PET/CT as compared with CT alone for baseline imaging in MCC.^{37 68 69} MCC may appear hypointense to isointense on T1-weighted sequences and may be isointense to hyperintense on T2/fat saturated T2-weighted images on MRI.⁷⁰ The hybrid imaging modality 18F-FDG PET/CT—CT is increasingly applied for metastatic or unresectable MCC, providing essential information for staging, re-staging, and treatment monitoring of the disease. Studies in different cancer types have shown that a reduction in FDG uptake is associated with subsequent clinical and radiological responses to immunotherapy.⁷¹ The role of 18F-FDG PET/CT in the management of the locoregional MCC is limited, but current evidence suggests a possible significant role even in localized MCC cases.⁷²

Within Delphi participants there was a very high consensus and agreement regarding the need for evaluation of sentinel lymph nodes and the need for clinical radiological follow-up in patients undergoing curative treatments.

Follow-up after locoregional treatment in patients with MCC should encompass a complete physical examination, including skin and imaging examinations for distant metastases (especially for high-risk patients). The complete examination is to be repeated every 3–6 months for the first 3 years.³⁹ Post-definitive treatment surveillance within the first 6 months with 18 F-FDG-PET/CT scan detects unsuspected recurrences early and has prognostic value.⁷³

Given the high frequency of lymph node metastases and the importance of lymph node staging, sentinel lymph node biopsy (SLNB) is highly recommended for patients without clinical and imaging evidence of metastasis. The SLNB positivity has a reported rate ranging from 30% to 38%.³⁹ In SLNB-negative patients, prophylactic RT of the regional nodal basin is not recommended, because it has not been shown to reduce the regional recurrence rate.⁷⁴ Nevertheless, in patients with a negative SLNB, RT can be indicated if there is an increased recurrence risk (ie, failure to perform appropriate IHC of SLNB, large primary site, chronic immunosuppression).³⁹ Whenever it is possible, basic imaging should be completed prior to the surgical evaluation of lymph nodes in order to define

the whole therapeutic strategy in patients with clinically negative node disease, based on the actual extent of the disease.

Surgery is the primary treatment modality for patients with localized MCC, typically followed by RT.¹⁹ According to NCCN clinical practice guidelines, current literature on RT advantage is inconsistent, so it is unclear which patients may benefit most from the added therapy.³⁹ In patients with localized disease and negative risk factors, such as lymphovascular invasion or immunosuppression, the NCCN 2021 guidelines³⁹ recommend adj RT of the regional nodal basin. In selected cases in which surgery would result demolitic, causing significant functional or esthetic sequela,⁷⁵ or is refused by the patient, radiation as monotherapy may be considered. Moreover, the approach could be interesting for elderly patients considering the comorbidities, the decreased muscle mass⁷⁶ and therefore the risk of anesthesia-related mortality.^{76 77}

In fact, greater dispersion is detectable among participants with regards to the role of adj RT, reflecting the absence of unanimous consent in scientific literature.⁷⁸ New insights about this topic are expected from the results of STAMP/ECOG 6174 trial (<https://clinicaltrials.gov/ct2/show/study/NCT03712605?term=ea6174&rank=1>) and ADAM trial (<https://clinicaltrials.gov/ct2/show/record/NCT03271372>).

Programmed death protein 1 (PD-1) inhibitors such as pembrolizumab and nivolumab and the programmed death-ligand 1 (PD-L1) inhibitor such as avelumab are recommended systemic therapy options for the treatment of the advanced disease based on three phase II international clinical trials, while CT should be discouraged in this setting unless the patient has contraindications to ICI or experienced disease progression on previous treatment with ICI.³⁹ Among the three ICI (avelumab, pembrolizumab, and nivolumab) only avelumab has been approved to date by Food and Drug Administration (FDA) and European Medicines Agency (EMA) for use in the MCC metastatic setting regardless of the line of therapy. Regulatory approval of avelumab for mMCC was based on the JAVELIN Merkel 200 trial (ClinicalTrials.gov: NCT02155647). Part A investigated 88 patients who progressed on prior CT for mMCC: after 1 year follow-up, the objective response rate was 33.0%, with 74% of responses lasting over a year, and the median OS of 12.9 months.⁷⁹ After 5 years of follow-up, the median OS was 12.6 months, with a 5-year OS rate of 26%.⁴² Part B of JAVELIN Merkel 200 investigated patients who received no prior systemic therapy for mMCC. The analysis of data included ≥ 15 months of follow-up for 116 patients, who showed an objective response rate of 39.7%, with the median duration of response 18.2 months; while the median OS was 20.3 months and the 12-month OS rate was 60%, associated with a low rate of grade 3/4 treatment-related adverse events and no treatment-related deaths.⁸⁰ Since 2018, the NCCN guidelines have recommended avelumab as first line treatment for mMCC.³⁹ The global MCC EAP for avelumab fulfilled an overriding, unmet

medical need for patients with mMCC. Before 2017, no treatment was approved for mMCC by the US FDA, European Commission, or any other regulatory authority. Within the large EAP population, avelumab provided a clinical benefit in a real-world population of both immune-competent and immunocompromised patients with mMCC who had various factors that excluded participation in clinical trials. Efficacy and safety data were consistent with pivotal trial data.^{81 82} Results from Italian patients enrolled in the avelumab EAP were consistent with the findings of the JAVELIN Merkel 200 trial and confirmed the efficacy and safety of avelumab treatment in this population.⁸³ Infusion-related reaction, fatigue, and rashes were among the most frequently occurring and importantly no new safety signals were identified in the EAP population.⁸⁴

As for the mMCC setting, ICI drastically changed prognosis of a proportion of patients with advanced MCC, as it happened in other oncological fields. Moreover, two phase III (ClinicalTrials.gov Identifier: NCT03712605; NCT03271372), two-arm, trials are currently ongoing in USA to explore how well pembrolizumab and avelumab work compared with standard of care observation in treating patients with stage I–III MCC that has been completely removed by surgery (resected). Immunotherapy with monoclonal antibodies, such as pembrolizumab, may help the body's immune system attack the cancer, and may interfere with the ability of tumor cells to grow and spread.

For patients who benefit from PD-1/PD-L1 inhibitor, few data exist to define the appropriate duration of ICI therapy after achieving complete response or partial response. Most clinical trials provide treatments for 1–2 years, but a new potential strategy to avoid disease progression after discontinuation of incompletely treated MCC would be to continue ICI administration for a longer period at markedly lower frequency (eg, every 3 months).¹ Finally, it should be mentioned that the research on MCC is focusing also on management of patients who progress following anti-PD-1 immunotherapy. This topic has been explored in a phase 2b study with N803, a novel IgG1 Fc-engineered interleukin-15-complexed protein, in addition to an investigator choice ICI in 11 tumor types including MCC. The preliminary data on 135 patients (60% non-small cell lung cancer) show that N803 demonstrates low toxicity in previously treated patients and promising efficacy of cessation of progression, with the potential of induction of response and durable stable disease in patients who had previously progressed.⁸⁵

The regulatory approval of avelumab addresses an important unmet need in MCC treatment, and in fact 100% of the experts agreed that the information concerning avelumab provided by the JAVELIN Merkel 200 study is adequate and reliable, and that also EAP data have concrete clinical implications.

Patients affected by autoimmune diseases and treated with biologic immunosuppressives, including anti-tumor

necrosis factor, are thought to have an increased risk of MCC development⁸⁶; taking into account a possible cause-effect relationship, after MCC diagnosis immediate discontinuation, at least for a limited time interval, or dose reduction or eventually replacement medication with less immunosuppressive burden should be considered.⁸⁷

The therapeutic strategy for MCC-UP, that is a deep-seated neoplasm without an associated cancer in the skin and no distant metastases, has not been universally defined to date. Patients with MCC-UP have been observed to have significantly better survival rates compared with MCC of known primary with the same stage of disease.^{88 89} Efforts have been made to verify if MCC-UP represents a separate disease entity. Recent studies suggest that MCC-UP represents a nodal metastasis from MCCs regressed via enhanced immune function from sun-exposed skin rather than a metastasis from extracutaneous sites or nodal primaries.^{90 91} In our Delphi poll, in line with the NCCN 2020 guidelines, almost all participants agreed that, in lymph node positivity with no evidence of primary cutaneous location and distant metastases, the same therapeutic strategy of the locally advanced stage with known primary site should be adopted.

Despite recent progress in MCC management across specialties, unmet needs and further research opportunities exist in several areas including improving technology for cancer surveillance, decreasing toxicity of existing therapeutics, reducing incidence of disease recurrence, and advancing novel drugs and therapeutic combination drugs to tackle primary and acquired resistance.

It could be concluded that, since MCC is a rare and heterogeneous cancer, that needs a multidisciplinary approach especially now, with new therapeutic approaches and new drugs, and with the natural history of the disease dramatically changing.

Author affiliations

¹Division of Gastrointestinal Medical Oncology and Neuroendocrine Tumors, European Institute of Oncology (IEO) IRCCS, Milano, Italy

²Medical Oncology Unit, Department of Medical and Surgical Specialties, Radiological Sciences and Public Health-Medical Oncology, University of Brescia, ASST-Spedali Civili, Brescia, Italy

³Melanoma and Skin Cancers Surgery Unit, Istituto Nazionale Tumori IRCCS Fondazione "G. Pascale", Napoli, Italy

⁴Veneto Institute of Oncology (IOV) IRCCS, Padova, Italy

⁵Department of Medicine, University of Padua School of Medicine, Padova, Italy

⁶Division of Medical Oncology, Candiolo Cancer Institute FPO IRCCS, Candiolo, Italy

⁷Center for Immuno-Oncology, Department of Oncology, University Hospital of Siena, Siena, Italy

⁸Dermatologic Clinic, Department of Medical Sciences, University of Turin, Torino, Italy

⁹Melanoma and Sarcoma Medical Treatment, European Institute of Oncology (IEO), Milano, Italy

¹⁰Melanoma Cancer Immunotherapy and Development Therapeutics Unit, Istituto Nazionale Tumori IRCCS Fondazione "G. Pascale", Napoli, Italy

Twitter Paolo Antonio Ascierto Paolo Antonio Ascierto @PAscierto

Collaborators DELPHI Panel Members: GC. Antonini Cappellini, Oncology Complex Organizational Unit Interhospital Sandro Pertini – Sant'Eugenio – CTO LHU RM2, Rome; L. Antonuzzo, Clinical Oncology Unit, Careggi University Hospital, Florence - Department of Experimental and Clinical Medicine, University of Florence; G. Badalamenti, Department of Surgical, Oncological and Oral Sciences,

Section of Medical Oncology, University of Palermo; M. Barberis, Clinical Unit of Histopathology and Molecular Diagnostics IEO, European Institute of Oncology, IRCCS, Milan; F. Bassetto, Plastic Surgery Clinic, Department of Neurosciences, Hospital-University of Padova; R. Berardi, Oncology Clinic Polytechnic University of Marche AOU Ospedali Riuniti di Ancona; A. Berruti, Medical Oncology University of Brescia Department of Medical-Surgical Specialties, Radiological Sciences and Public Health Brescia; A. Bongiovanni, Osteonology and Rare Tumors Center (CDO-TR), IRCCS Romagnolo Institute for the Study of Tumors (IRST) 'Dino Amadori', Meldola, Forlì Cesena; P. Bonomo, Radiation Oncology Hospital University Azienda Careggi, Florence; L. Borgognoni, Division of Plastic and Reconstructive Surgery, Melanoma & Skin Cancer Unit, SM Annunziata Hospital, Florence; V. Borzillo, Radiation Oncology Unit Istituto Nazionale Tumori IRCCS Fondazione 'G. Pascale', Napoli; F. Bruder, Acting Head of Medical Oncology Complex Structure Businco (AOB), Cagliari; D. Campana, Division of Medical Oncology, IRCCS Hospital University Azienda of Bologna; F. Consoli, Organizational Unit Medical Oncology, ASST Spedali Civili, Brescia; A. Cordova, Department of Oncological and Stomatological Surgical Disciplines University of Palermo; R. Depenni Department of Oncology, AOU Policlinico di Modena; A.M. Di Giacomo, University of Siena, Center for Immuno-Oncology, University Hospital of Siena; G. Fabbrocini, Director of the Complex Organizational Unit of Clinical Dermatology of the AOU Federico II of Naples; M.C. Fargnoli, Dermatology, Department of Biotechnological and Applied Clinical Sciences, University of L'Aquila; V. Ferraresi, Sarcomas and Rare Tumors Departmental Unit IRCCS Regina Elena National Cancer Institute of Rome; F. Ferrau, Director, Oncology Complex Organizational Unit, 'S.Vincenzo' Hospital, Taormina, Messina; M.T. Fierro, Dermatologic Clinic, Dept Medical Sciences, University of Turin; M. Gatti, Acting Director of Radiotherapy Candiolo Cancer Institute, FPO - IRCCS, Candiolo Turin; F. Gelsomino, Department of Oncology and Hematology, Division of Oncology, University Hospital of Modena; D. Giuffrida, Oncology, Mediterranean Oncological Institute, Viagrande, Catania; P. Graziano, Director Unit of Pathology Fondazione IRCCS Osp.Casa Sollievo della Sofferenza, S.Giovanni Rotondo, Foggia; C. Gregorelli, Plastic and Reconstructive Surgery of the Civil Hospitals of Brescia; M. Guida, Rare Tumors and Melanoma Unit, Istituto di Ricovero e Cura a Carattere Scientifico (IRCCS) Istituto Tumori Giovanni Paolo II, Bari; D. Massi, Section of Pathology, Department of Health Sciences, University of Florence; R. Mazarrotto, Department of Radiation Oncology, Verona University Hospital, Verona; L. Milesi, Complex Organizational Unit Oncology ASST Papa Giovanni XXIII Bergamo; AM. Minisini, University Health Unit Friuli Centrale Oncology Department Udine; F. Morgese, Oncology Clinic AOU Ospedali Riuniti Ancona; P. Muto, Department of Radiation Oncology, Istituto Nazionale Tumori - IRCCS - Fondazione G. Pascale, Napoli; G. Palmieri, Immuno-Oncology & Targeted Cancer Biotherapies, University of Sassari - Unit of Cancer Genetics, IRGB-CNR, Sassari; R. Patuzzo, Melanoma and Sarcoma Complex Structure Unit-IRCCS Foundation National Cancer Institute Milan; G. Pellacani, Dermatology Clinic, Department of Clinical Internal, Anesthesiological and Cardiovascular Sciences, University of Rome La Sapienza; F. Picciotto, Dermatologic Surgery Section Dept. of Surgery A.O.U. Città della Salute e della Scienza, Torino; J. Pigozzo, Melanoma Oncology Unit Veneto Institute of Oncology IOV - IRCCS, Padua; N. Pimpinelli, Dermatology Unit, Dept. Health Sciences, University of Florence; P. Poletti, Oncology Complex Organizational Unit Papa Giovanni XXIII Hospital, Bergamo; L. Repetto, Director of the Oncology Department Director Sc. Oncology G. Borea Hospital Sanremo (Imperia) LHU 1 Health System Liguria Region; G. Rinaldi Medical Oncology Complex Organizational Unit UOP P. Giaccone Palermo; P. Rubegni, Dermatology Unit Department of Medical, Surgical and Neuroscience University of Siena; G. Rubino, Unit of Radiation Oncology, Oncology Department, University Hospital of Siena; F. Spagnolo, Medical Oncology 2, IRCCS San Martino Polyclinic Hospital, Genoa; L. Tagliaferri, Complex Organizational Unit of Oncological Radiotherapy, Department of Diagnostic Imaging, Oncological Radiotherapy and Hematology, 'A. Gemelli' University Hospital Foundation IRCCS, Rome; E. Tanda, Medical Oncology, Istituto Di Ricovero e Cura a Carattere Scientifico (IRCCS) Ospedale Policlinico San Martino, Genova, Genetics of Rare Cancers, Department of Internal Medicine and Medical Specialties, University of Genoa; M.C. Tronconi, Medical Oncology and Hematology Unit, Humanitas Cancer Center, Humanitas Clinical and Research Center, IRCCS, Rozzano, Milan; M. Tucci, Interdisciplinary Department of Medicine University of Bari 'Aldo Moro' and IRCCS - National Tumori Institute Giovanni Paolo II, Bari; M. Valente, Center for Immuno-Oncology B Medical Oncology and Immunotherapy Division Oncology Department University Hospital of Siena; B. Vincenzi, Associate Professor in Medical Oncology University Campus Bio-Medico, Rome; I. Zalaudek, Department of Dermatology and Venereology, University of Trieste.

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ORCID iDs

Giovanni Grignani <http://orcid.org/0000-0001-5515-569X>

Paolo Antonio Ascierto <http://orcid.org/0000-0002-8322-475X>

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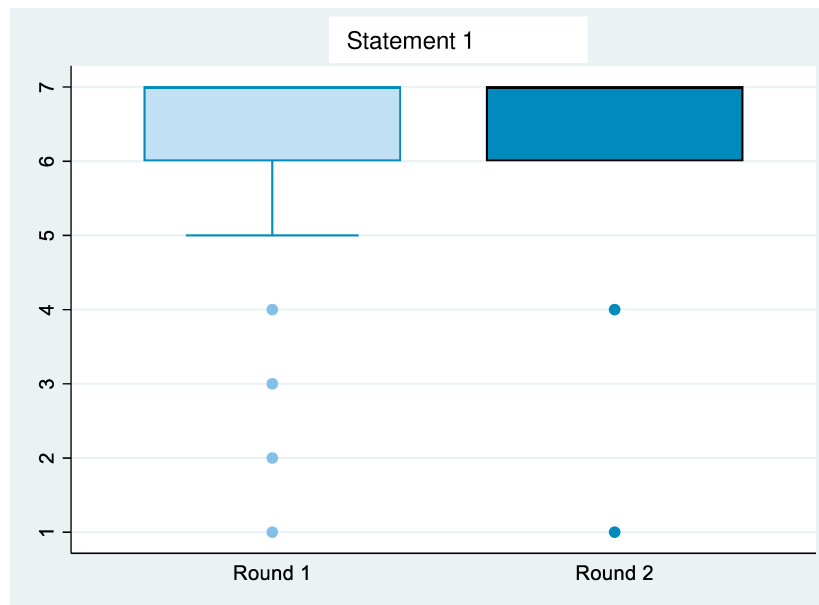
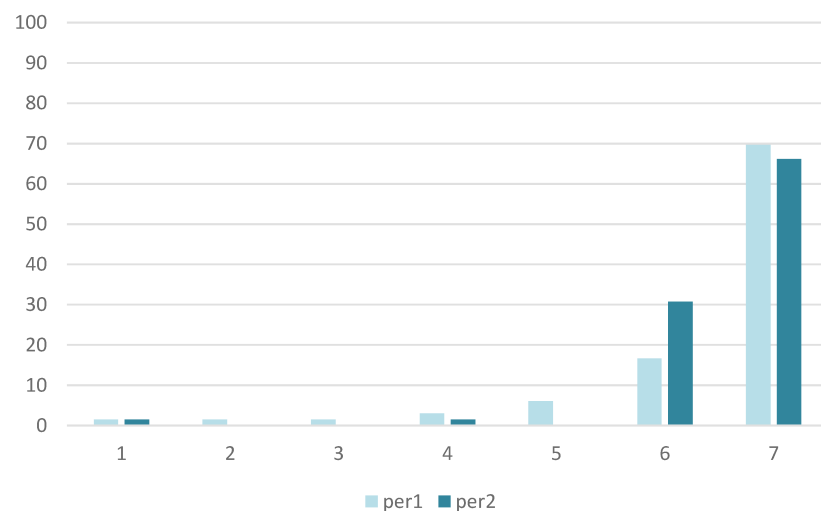
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NATIONWIDE MULTIDISCIPLINARY CONSENSUS ON THE CLINICAL MANAGEMENT OF MERKEL CELL CARCINOMA: A DELPHI PANEL Graphics

Statement 1

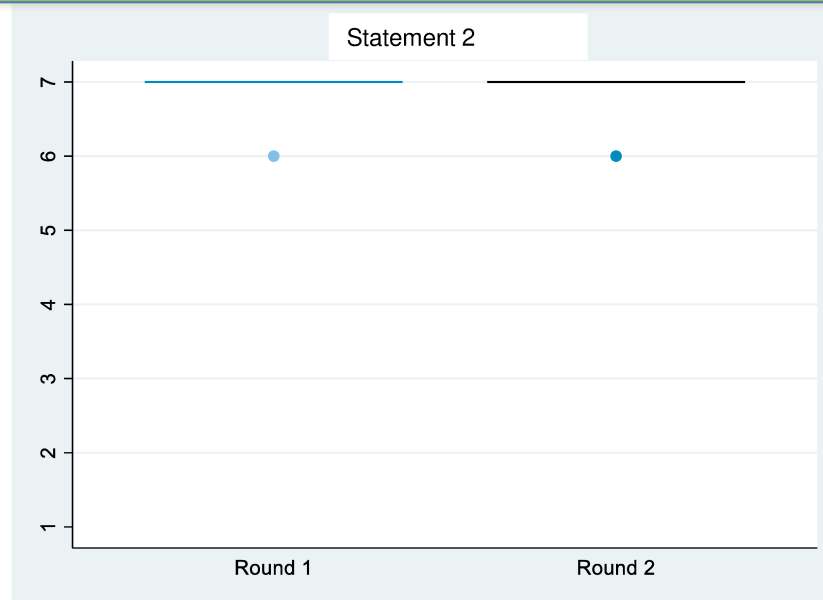
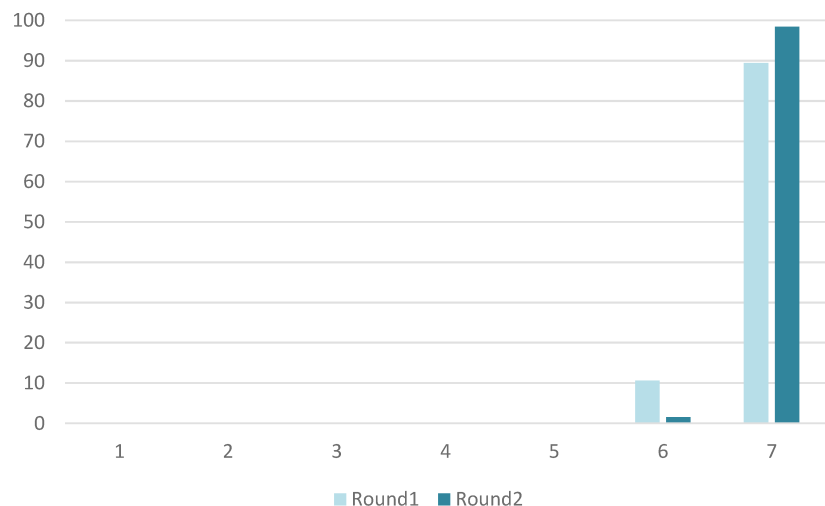
At my centre the most appropriate therapeutic diagnostic path is shared and discussed within a multidisciplinary team



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 2

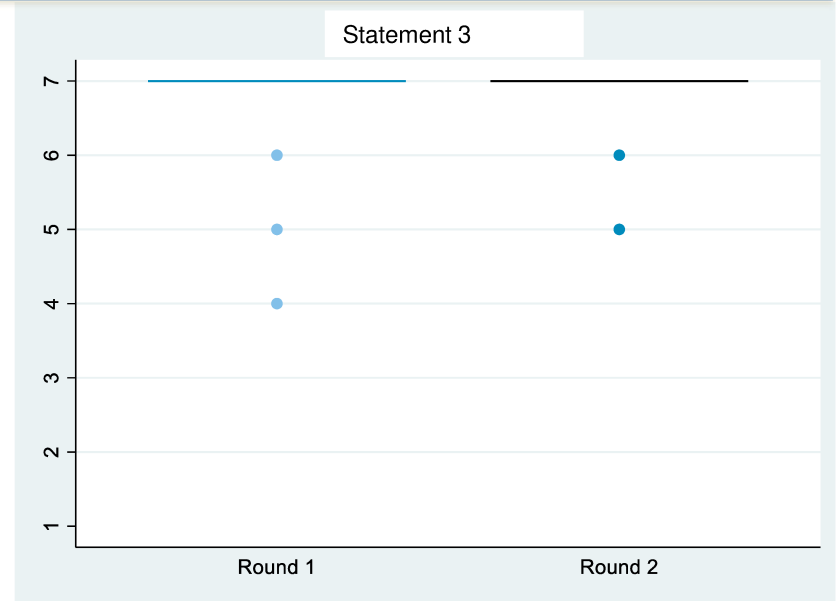
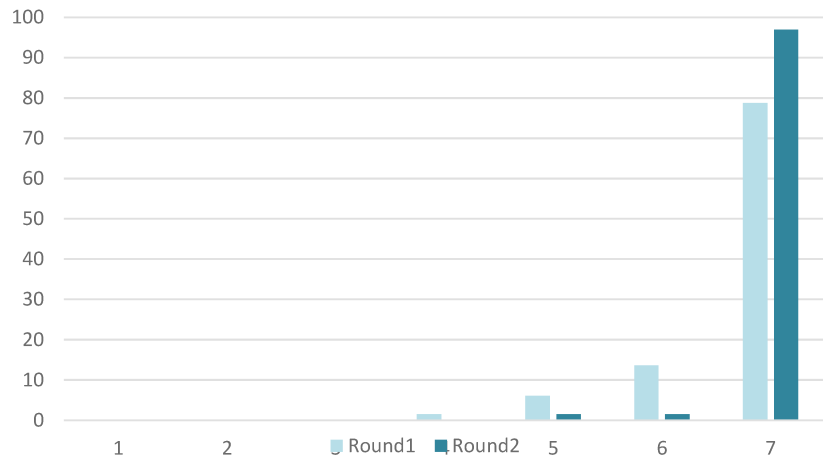
Faced with new diagnosis of MCC the therapeutic diagnostic path should be shared by a multidisciplinary team



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	7	7	
75° Percentile	7	7	
interquartile range	0	0	

Statement 3

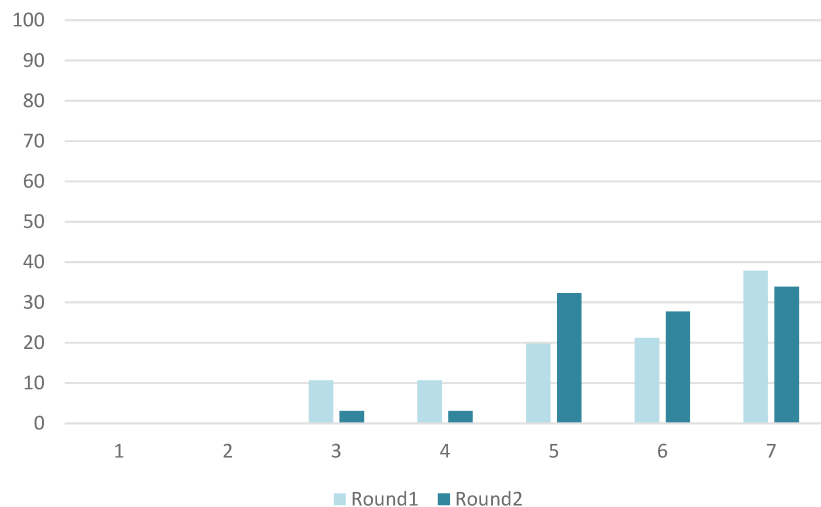
The multidisciplinary team should comprise at least: oncologist, surgeon, dermatologist, pathologist, radiotherapist and radiologist



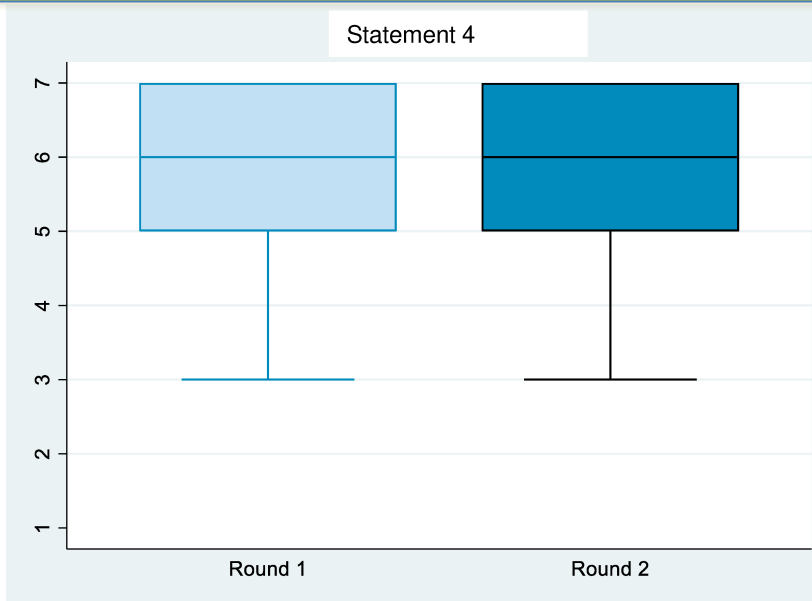
	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	7	7	
75° Percentile	7	7	
interquartile range	0	0	

Statement 4

In the minimal criteria for pathological evaluation I believe that the inclusion of the positivity/negativity of Polyomavirus is a useful addition



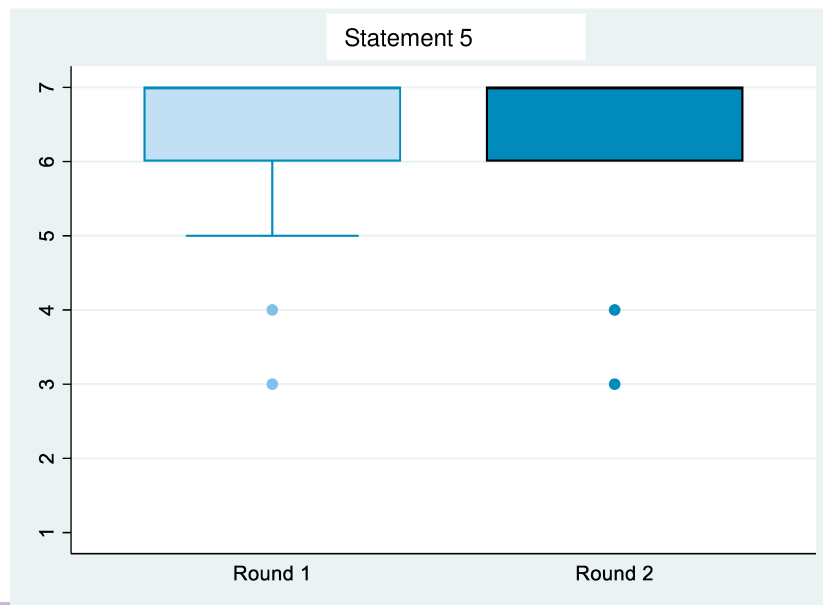
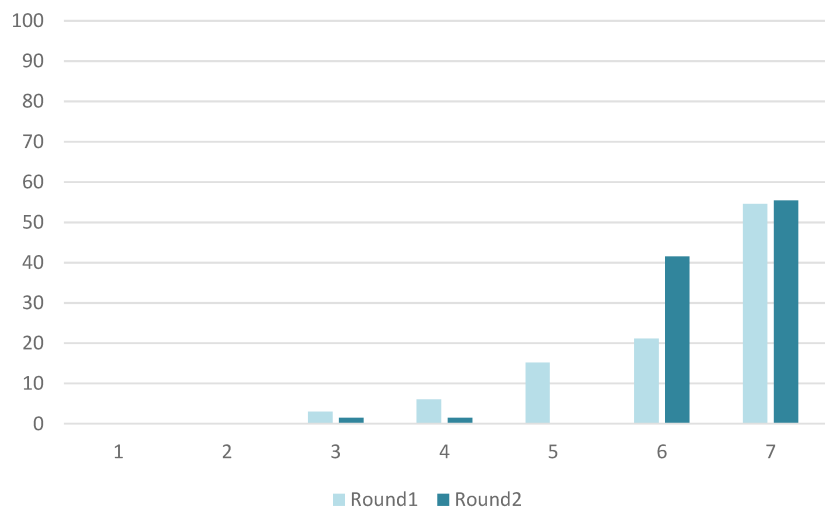
Variazioni tra il primo e il secondo Round = 32%



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	5	5	
75° Percentile	7	7	
interquartile range	2	2	

Statement 5

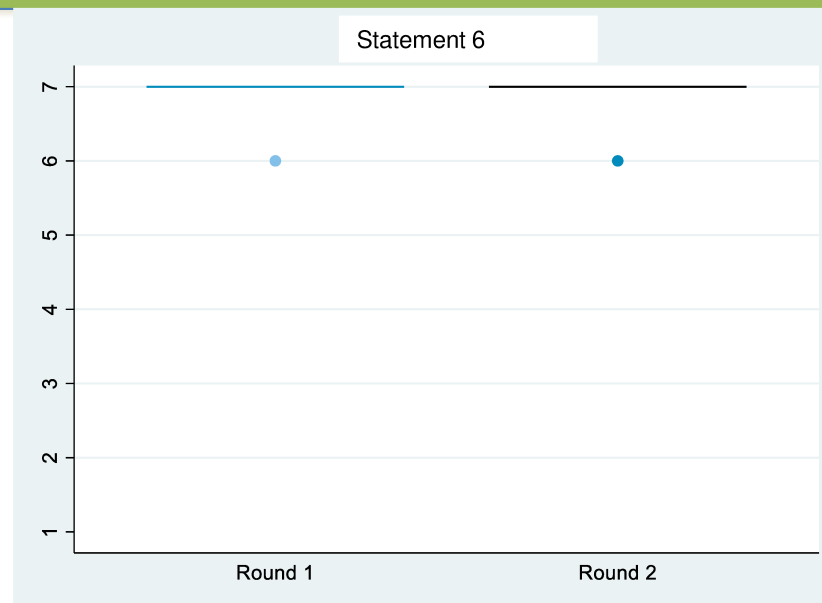
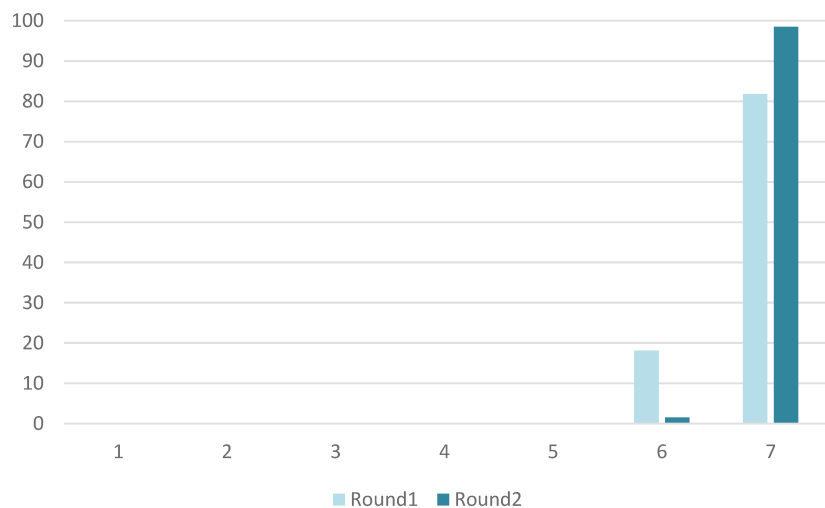
In the criteria for pathological evaluation I believe that the inclusion of the expression data of cytokeratin 20 (positive) with paranuclear pattern "dot-like" and TTF-1 (negative) is necessary.



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 6

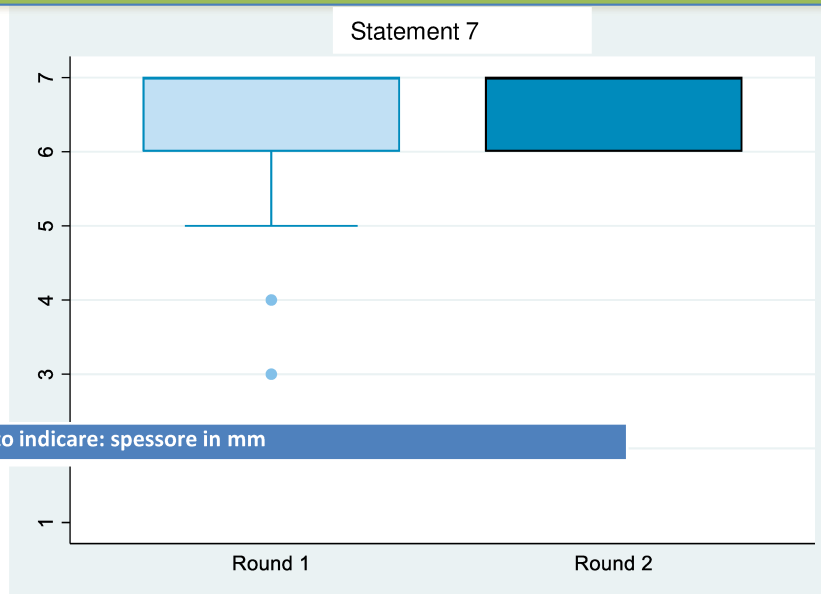
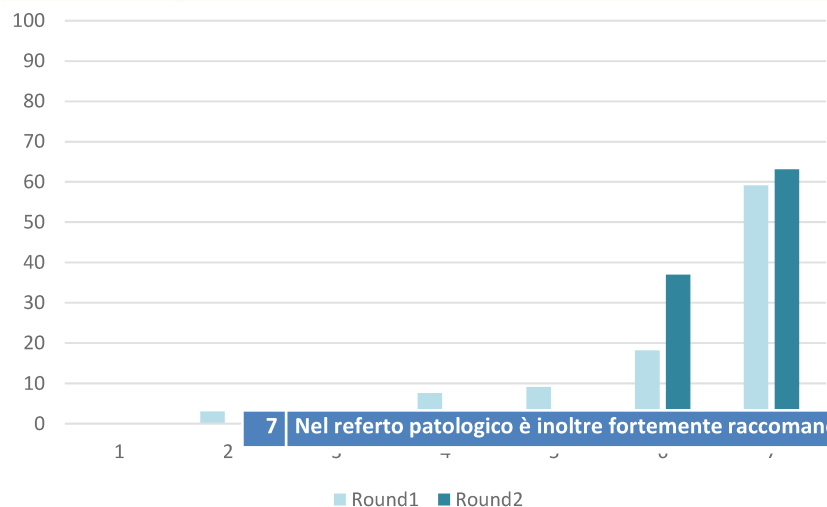
In the pathological report, the essential information to be reported is: site, maximum size expressed in cm; extra-cutaneous extension (bone, muscle, cartilage belt); lympho-vascular invasion; state of the deep and peripheral margins; pTNM.



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	7	7	
75° Percentile	7	7	
interquartile range	0	0	

Statement 7

In the pathological report it is also strongly recommended to indicate: thickness in mm; mitotic index (number of mitoses/mm²), infiltrated tumor lymphocyte (absent, brisk, not brisk); growth pattern (nodular vs. infiltrative).

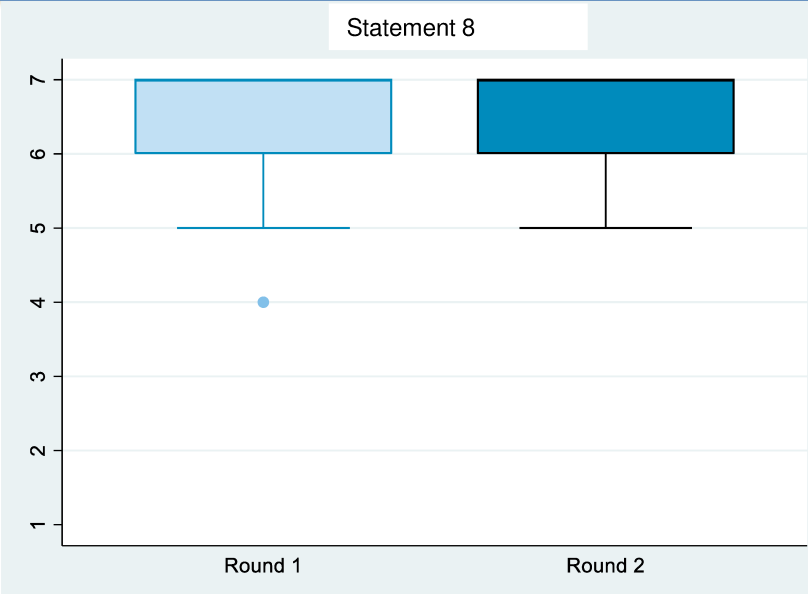
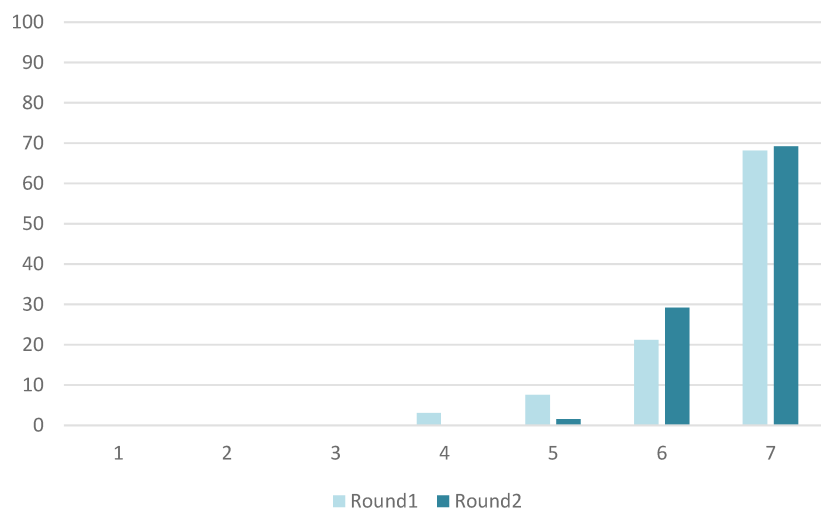


7 Nel referto patologico è inoltre fortemente raccomandato indicare: spessore in mm

	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Affermazione 8

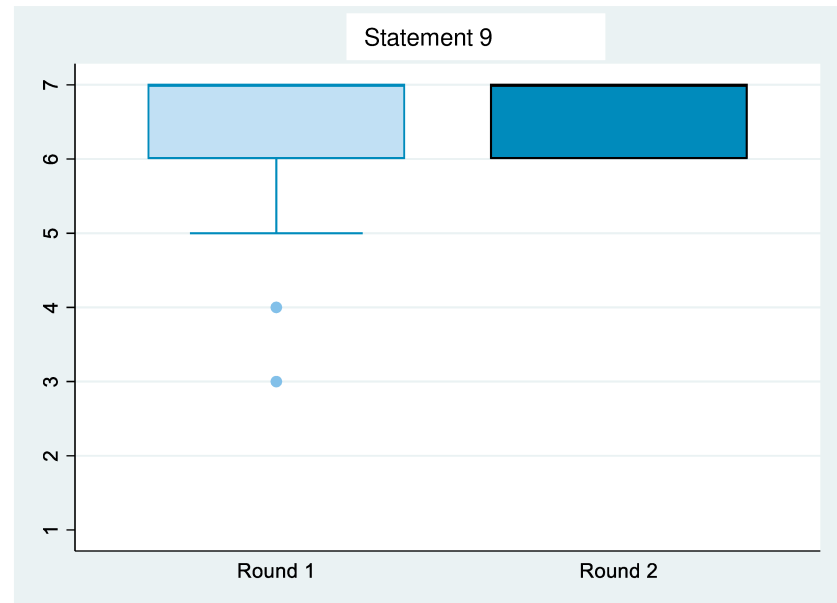
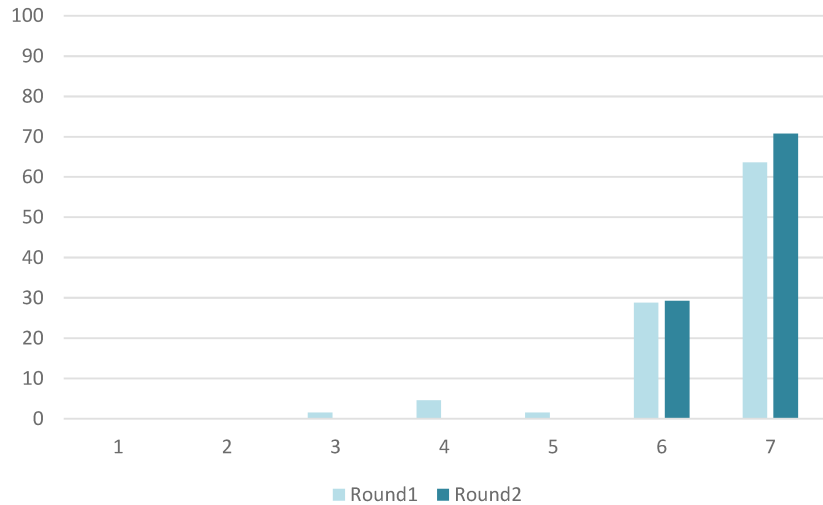
The following are to be considered as elements for diagnostic framing: age, phototype, centre of the lesion, evolution, immuno-compromised (transplanted patient, onco-haematologic, positive HIV, with necessity of immunosuppressive therapy)



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 9

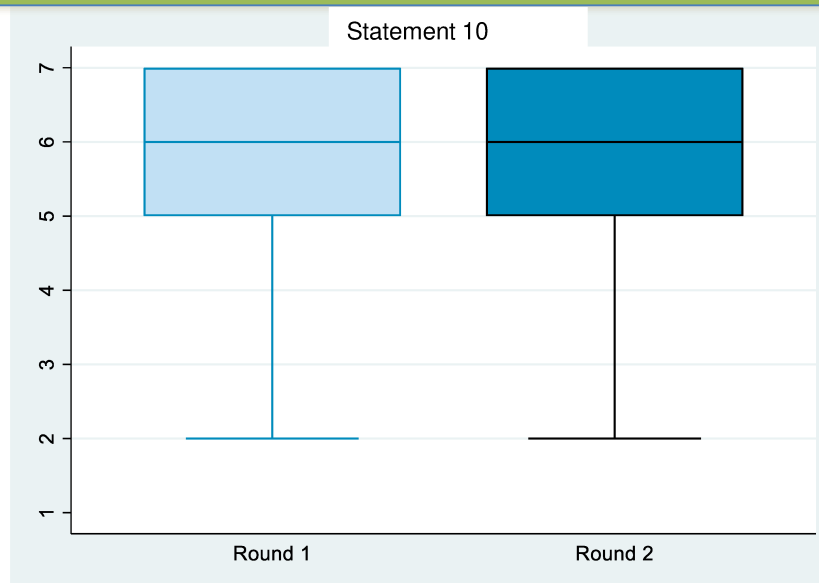
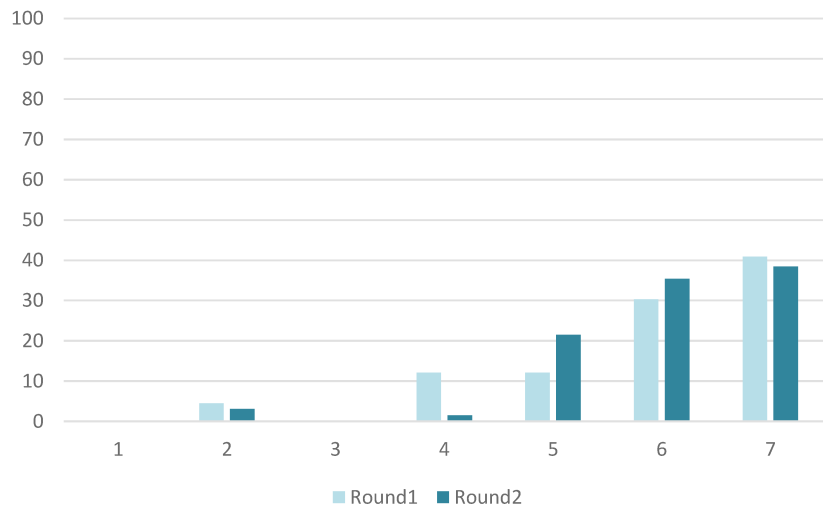
For proper staging in relation to the site of disease, the imaging tools I consider necessary are CT and/or MRI and/or ultrasound of the lymph node station



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 10

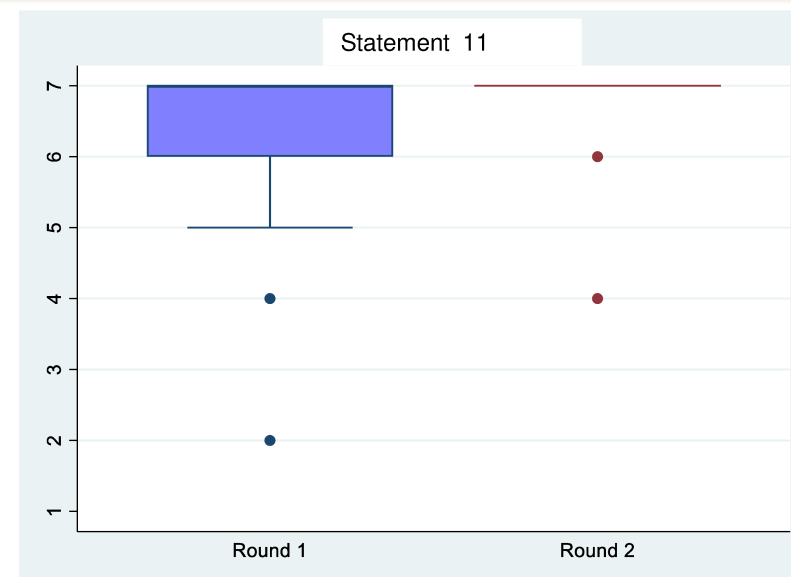
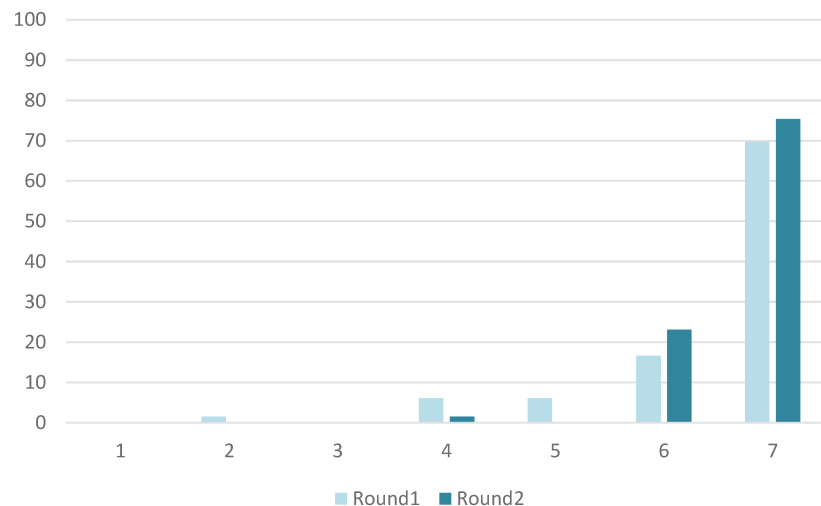
In the pre-operative staging I consider the PET/CT with 18F-FDG necessary



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	5	5	
75° Percentile	7	7	
interquartile range	2	2	

Statement 11

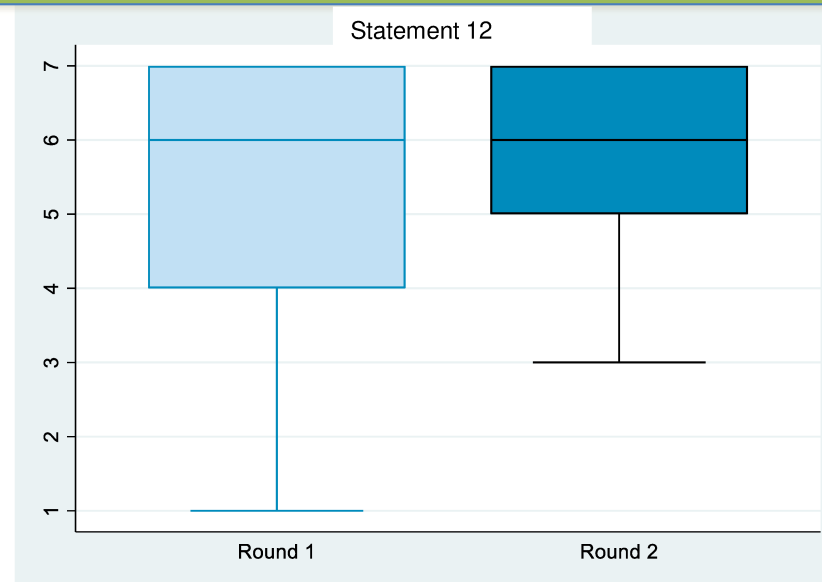
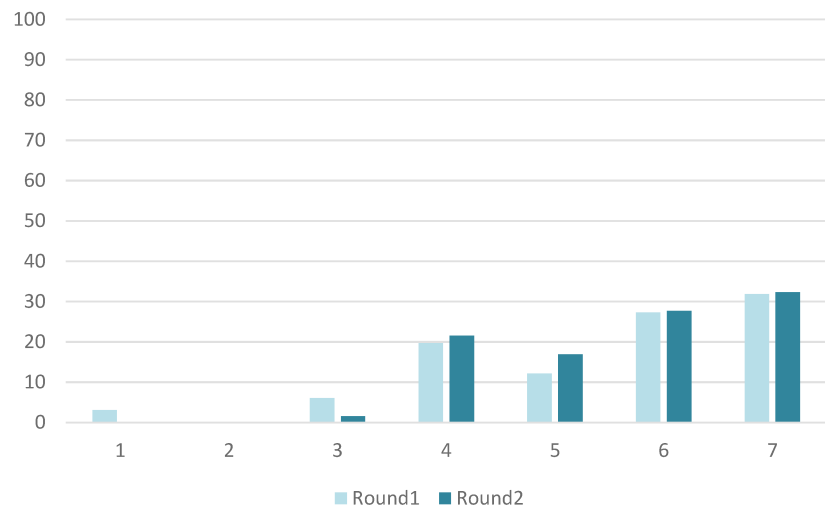
Sentinel lymph node assessment is necessary for reliable diagnosis/staging in the absence of clinical and/or radiological evidence of lymph node involvement



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	7	
75° Percentile	7	7	
interquartile range	1	0	

Statement 12

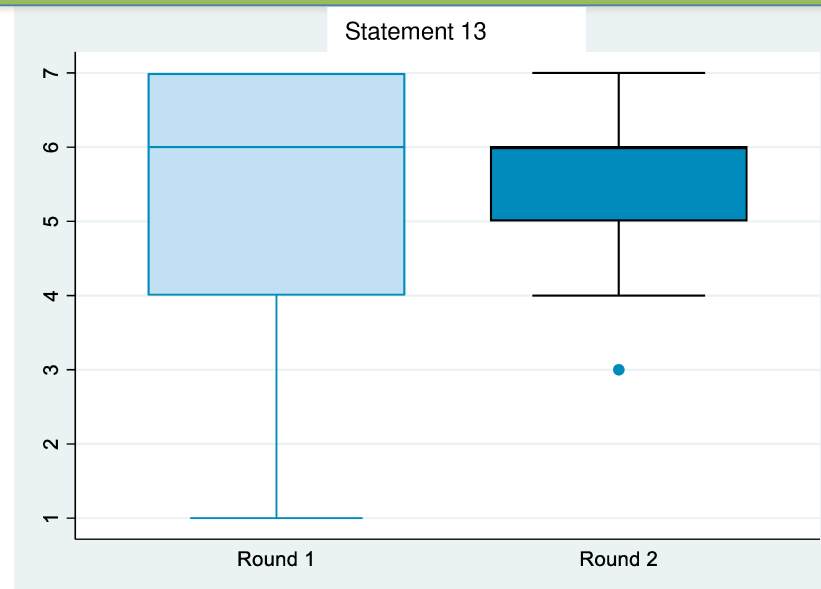
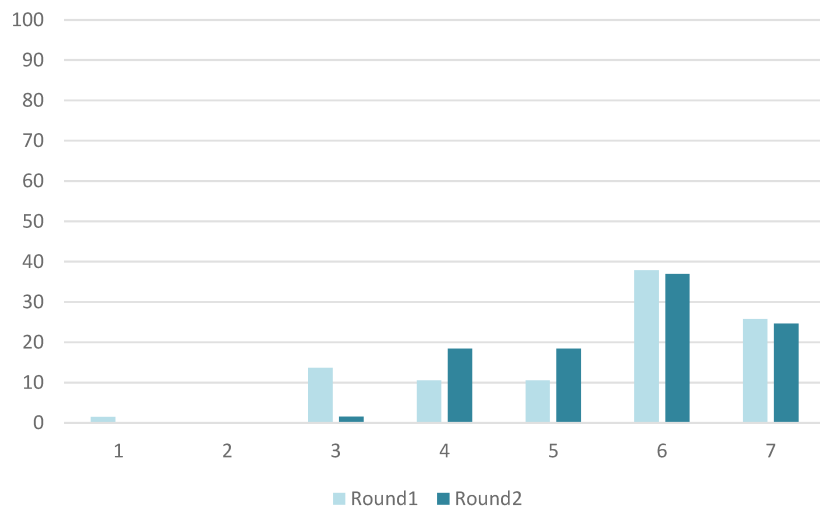
I always consider the possibility of an adjuvant radiotherapy on the previous site of the primary lesion



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	4	5	
75° Percentile	7	7	
interquartile range	3	2	

Statement 13

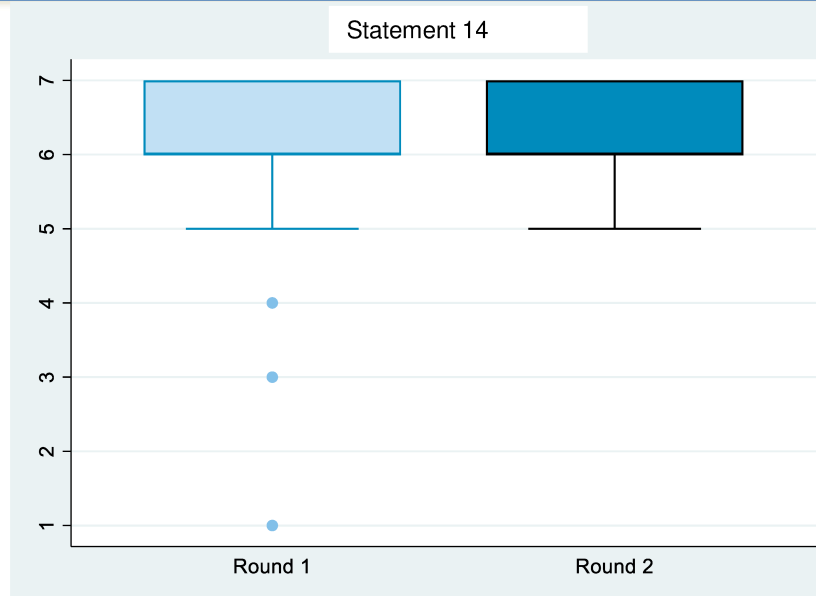
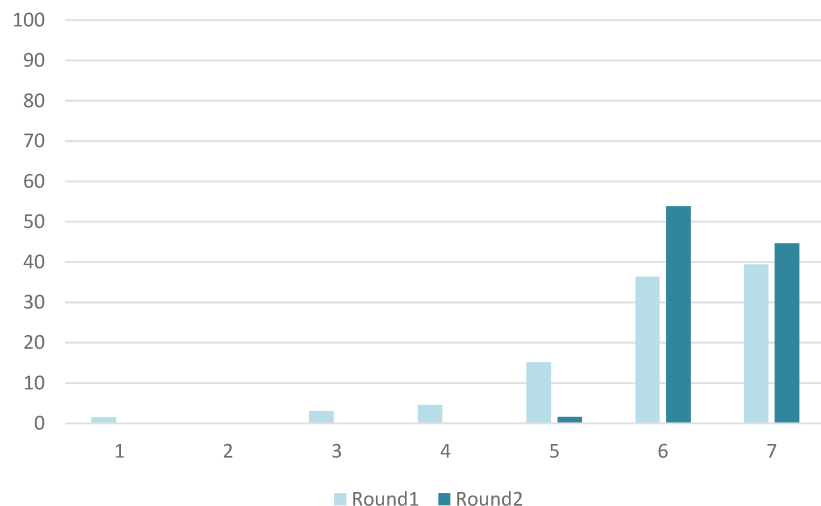
I always consider the possibility of an adjuvant lymph node radiation therapy



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	4	5	
75° Percentile	7	6	
interquartile range	3	1	

Statement 14

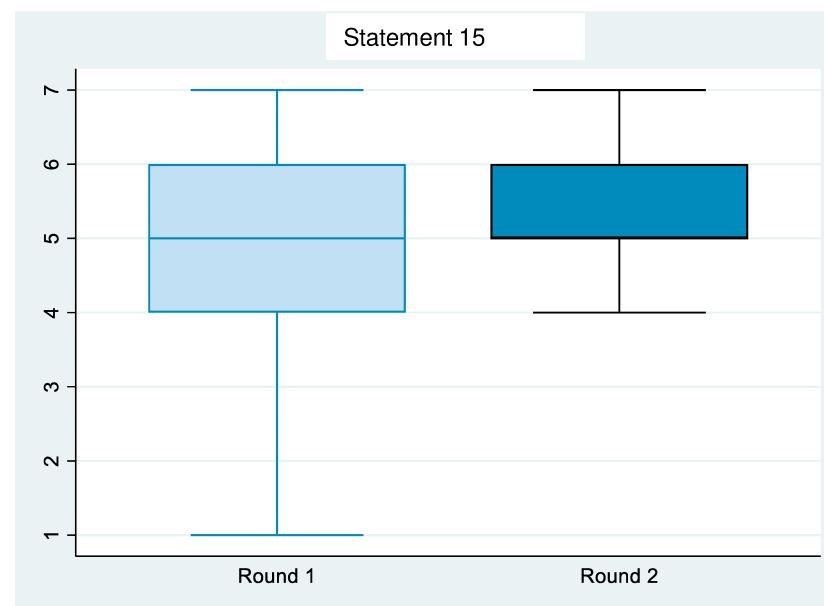
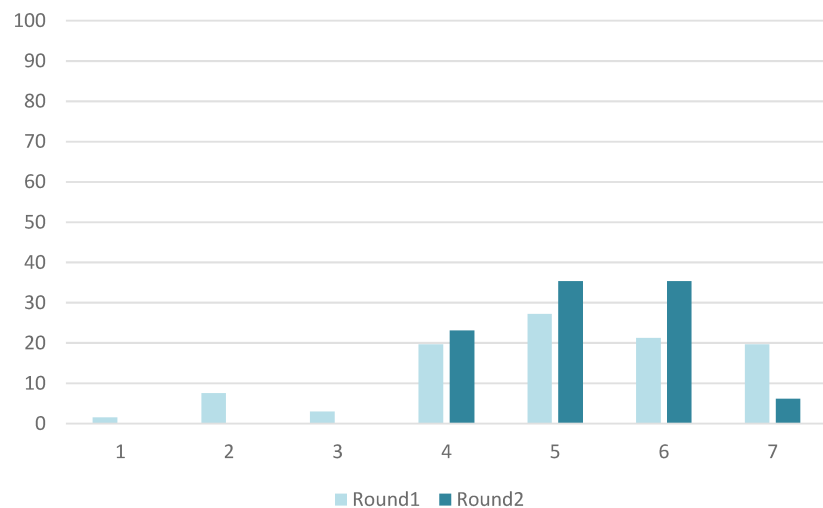
In case of only lymph node disease, with no evidence of primary cutaneous location and distant metastasis, I would adopt the same therapeutic strategy as the locally advanced MCC with known primary site



	Round 1	Round 2	
Median	6	6	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 15

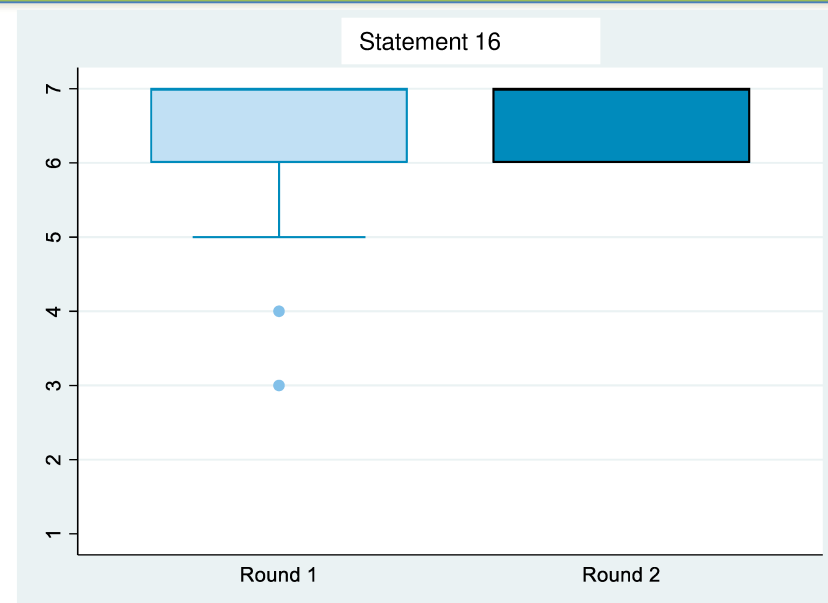
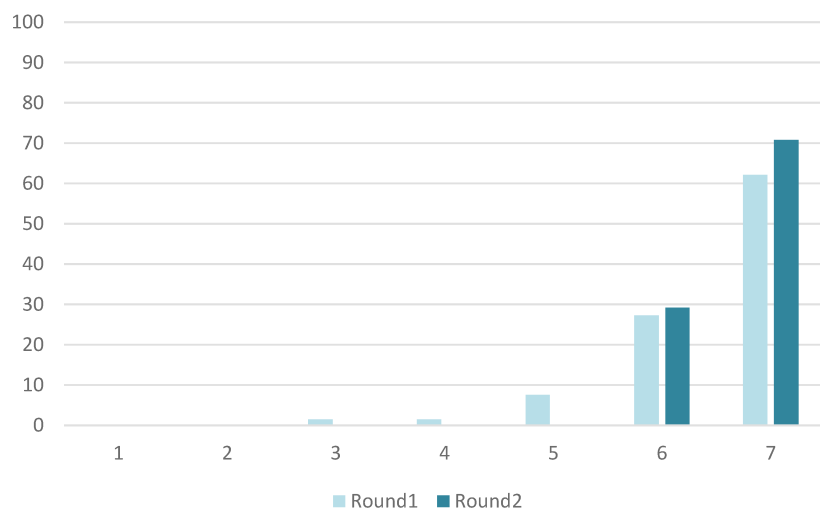
In the presence of disease without diagnosis of cutaneous primitivity, the prognosis is better overall, at equal stages N and M



	Round 1	Round 2	
Median	5	5	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	4	5	
75° Percentile	6	6	
interquartile range	2	1	

Statement 16

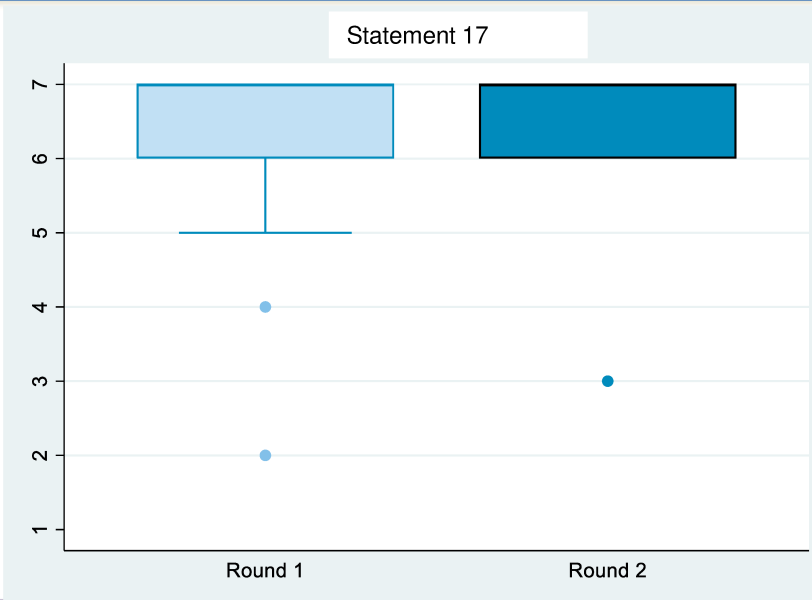
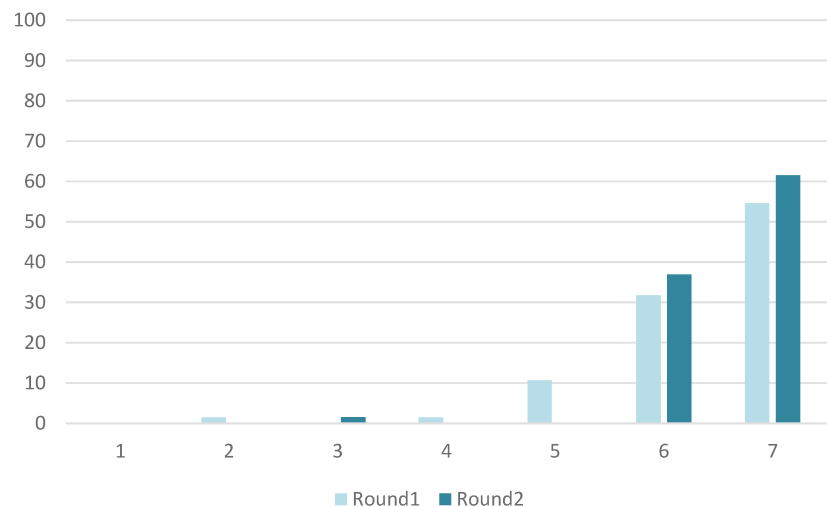
The involvement of several lymph node stations belonging to different districts and not radically resectable is considered as a metastatic disease



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 17

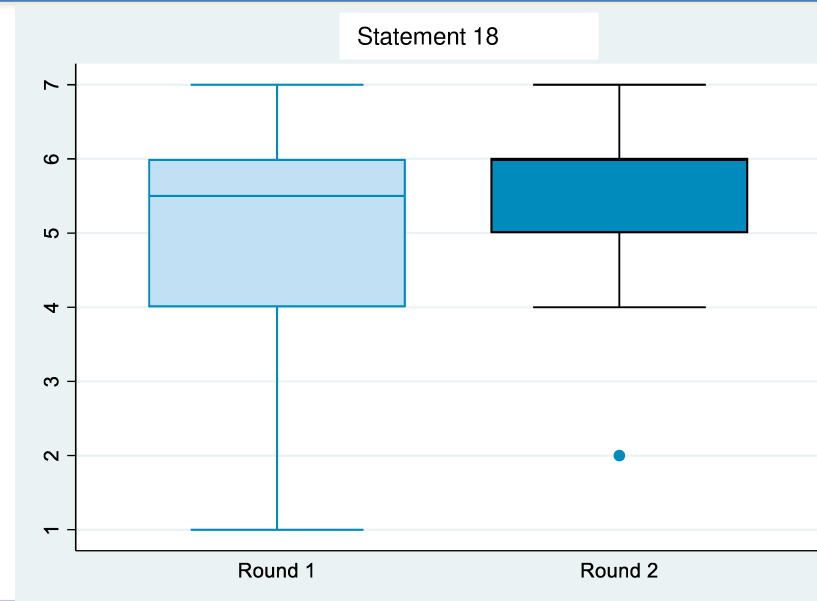
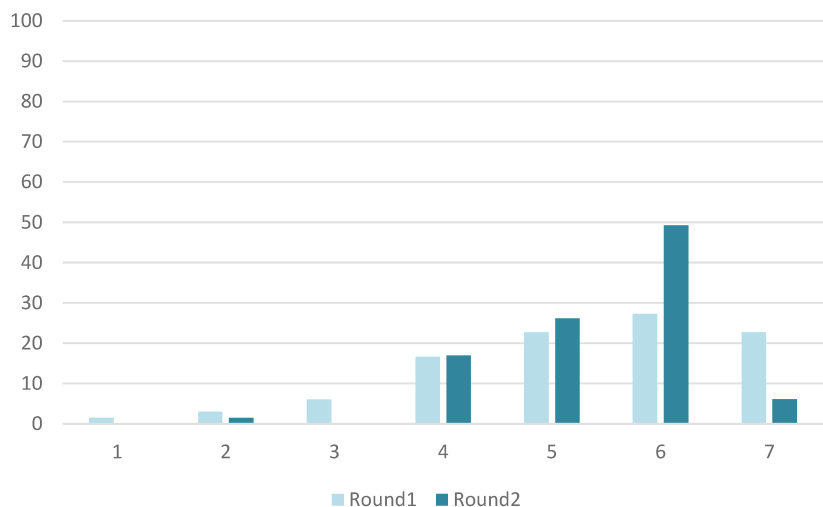
An immunocompromised patient with advanced MCC can be treated with immunotherapy after multidisciplinary risk/benefit assessment in collaboration with the specialists treating him (haematologist, infectiologist, rheumatologist, etc.)



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 18

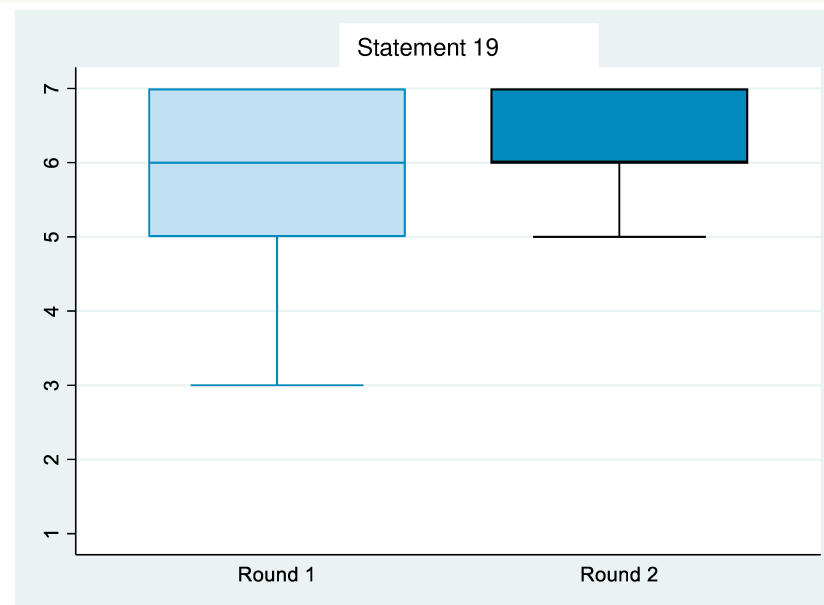
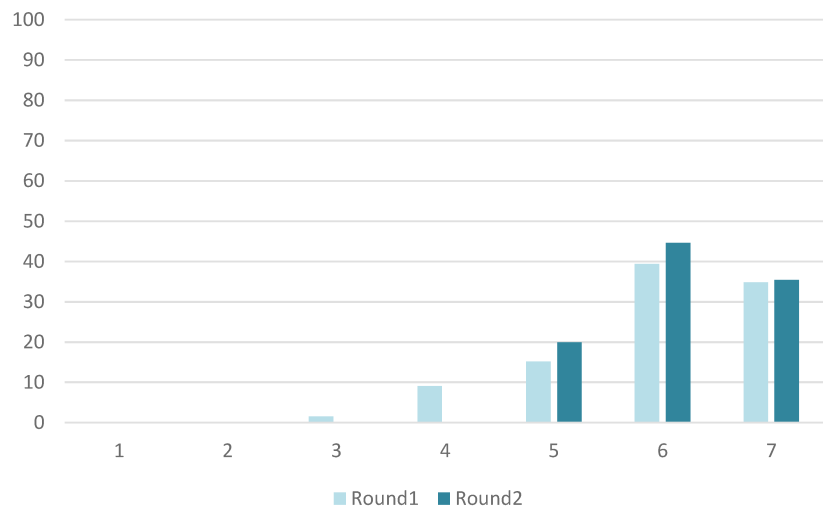
In a patient with complete clinical-instrumental response I would consider suspending treatment based on the clinical characteristics, response duration and after discussion with the patient



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	4	5	
75° Percentile	6	6	
interquartile range	2	1	

Statement 19

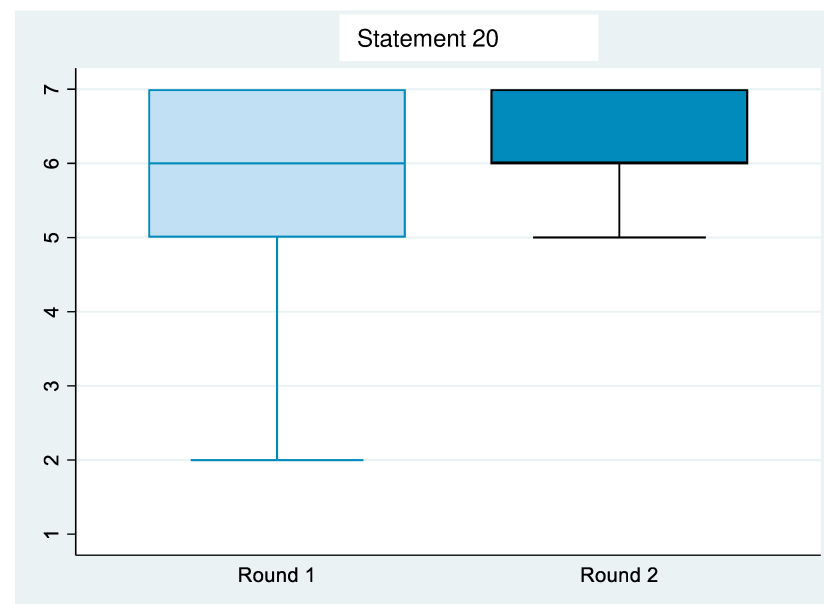
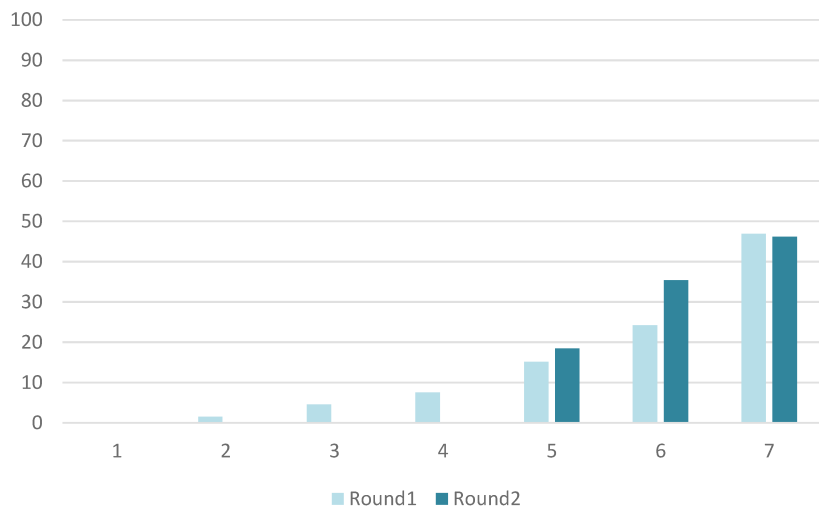
In a patient on immunotherapy I would continue the treatment even beyond progression, in the presence of clinical benefit



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	6	6	
25° Percentile	5	6	
75° Percentile	7	7	
interquartile range	2	1	

Statement 20

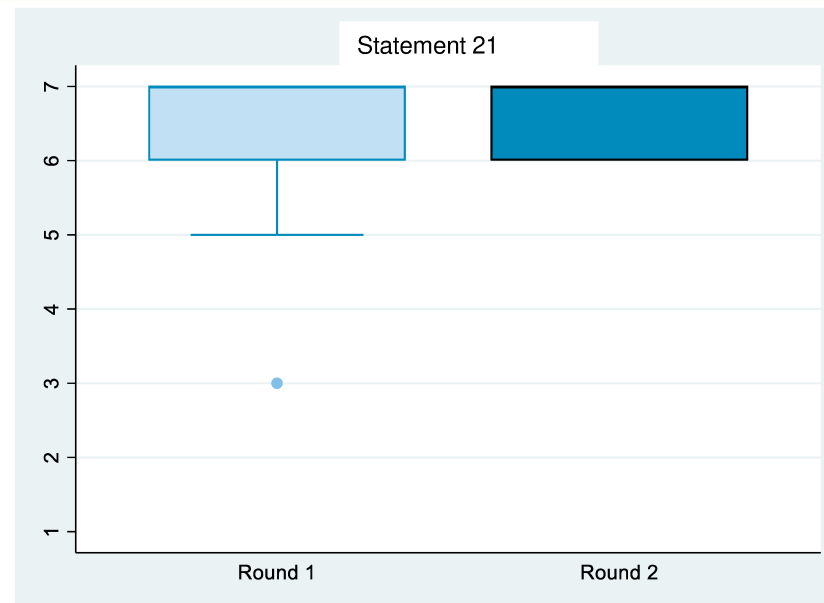
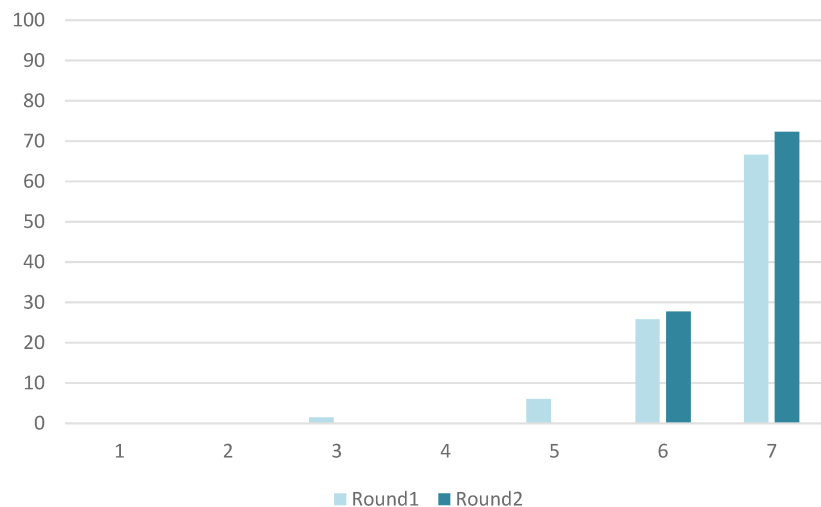
In clinical practice I would apply the immune RECIST criteria for the management of patients over time and evaluation under immunotherapy



	Round 1	Round 2	
Median	6	6	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	5	6	
75° Percentile	7	7	
interquartile range	2	1	

Statement 21

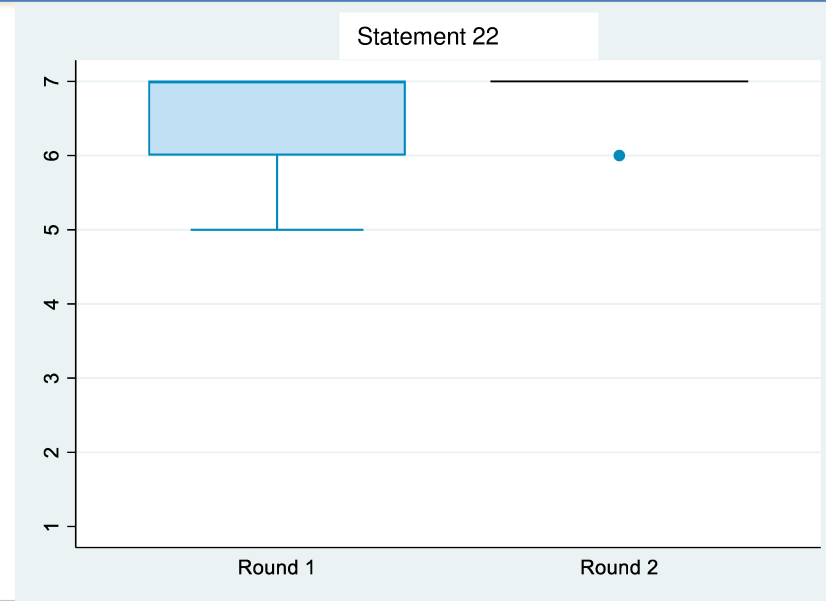
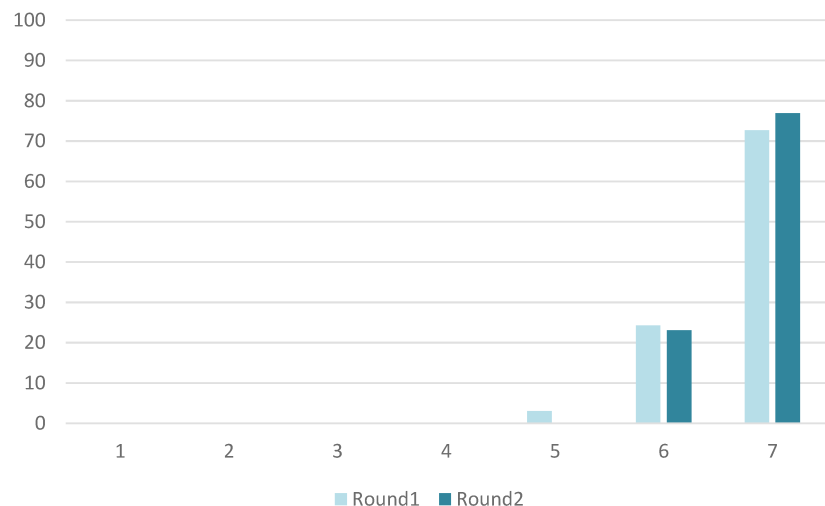
In the case of curative surgery with demolitive impact, I would discuss with the patient alternative therapeutical medical and/or radiotherapeutic options



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 22

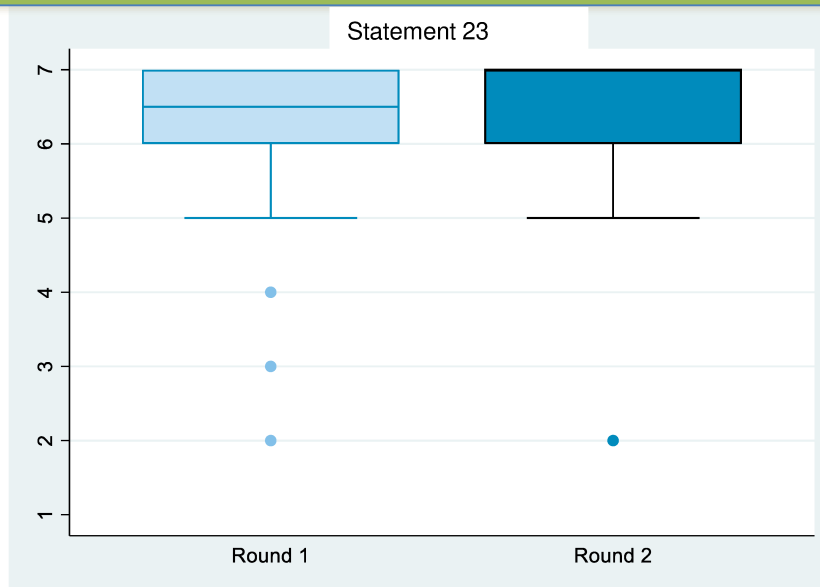
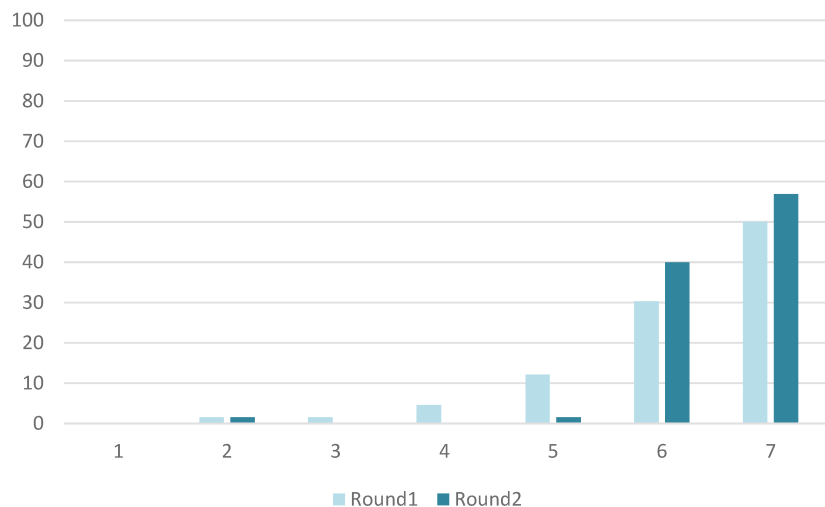
The patient with regional recurrence no longer susceptible to radical surgery should be managed with radiotherapy and/or medical therapy (immunotherapy in the first instance or if contraindications alternatively chemotherapy)



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	7	
75° Percentile	7	7	
interquartile range	1	0	

Statement 23

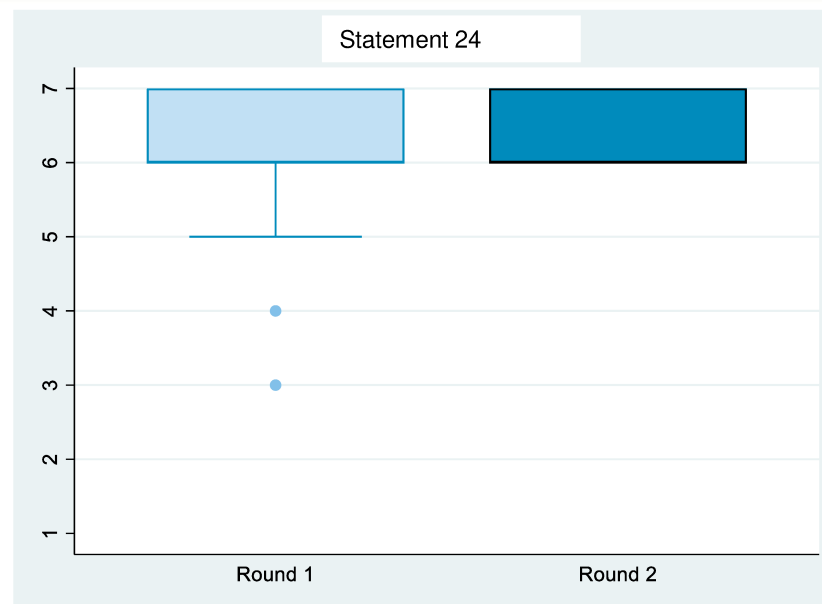
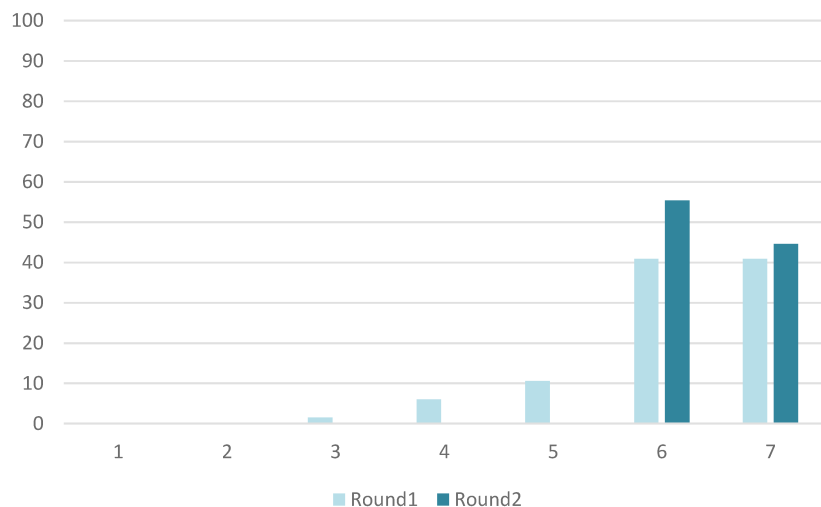
During immunotherapy I would treat the focal progression with the addition of radiotherapy.



	Round 1	Round 2	AGREEMENT AND CONSENSUS WITH THE STATEMENT
Median	7	7	
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 24

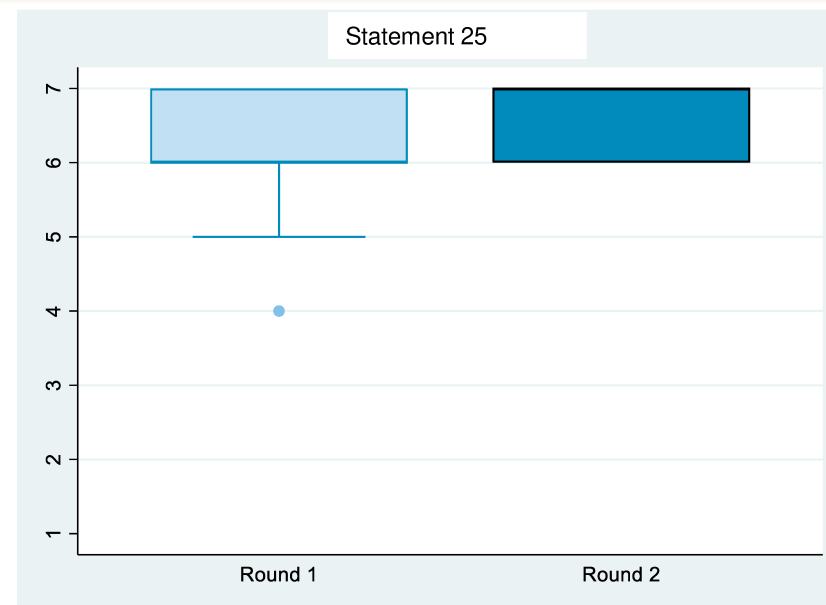
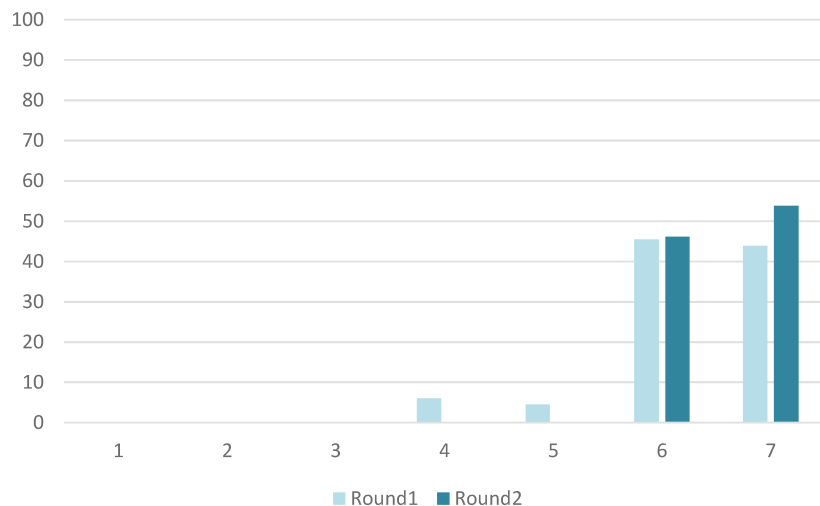
. I consider the design and conduct of the JAVELIN Merkel 200 registration study (part A and part B) with Avelumab, entirely adequate to obtain reliable results



	Round 1	Round 2	
Median	6	6	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 25

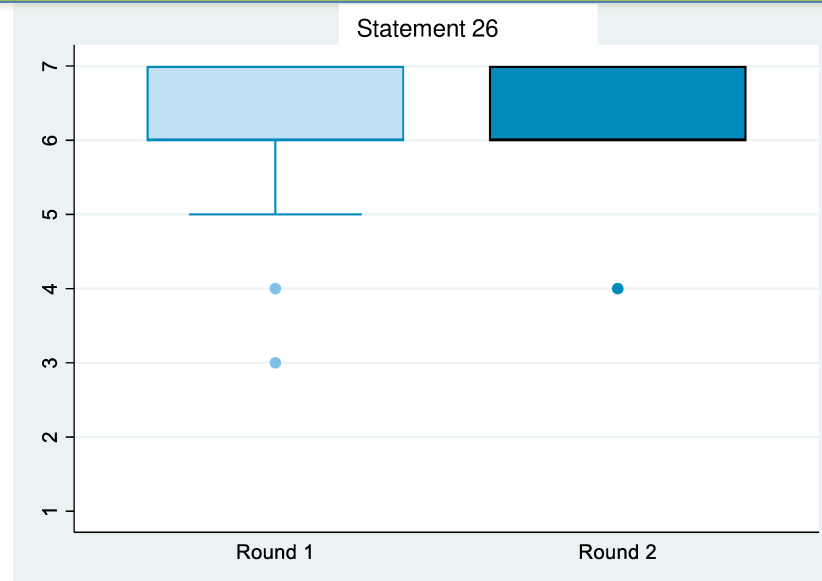
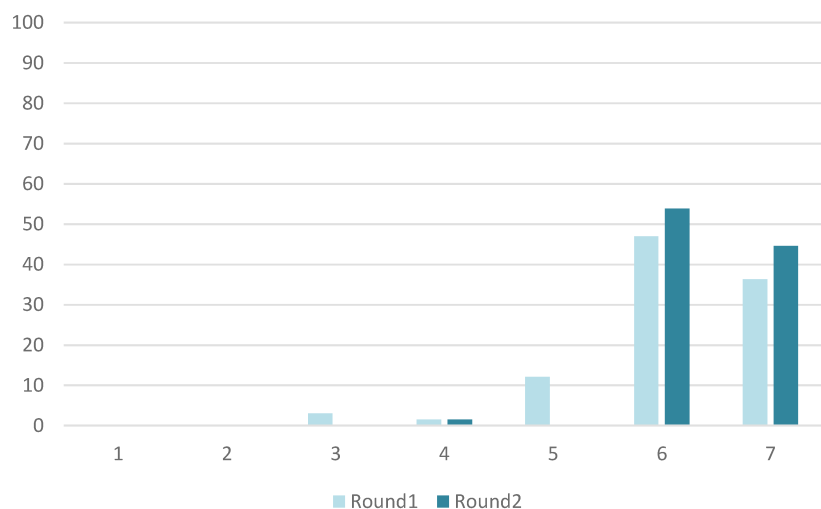
I believe that the expanded access program (EAP) data for Avelumab have concrete clinical implications for patient management with metastatic MCC



	Round 1	Round 2	
Median	6	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 26

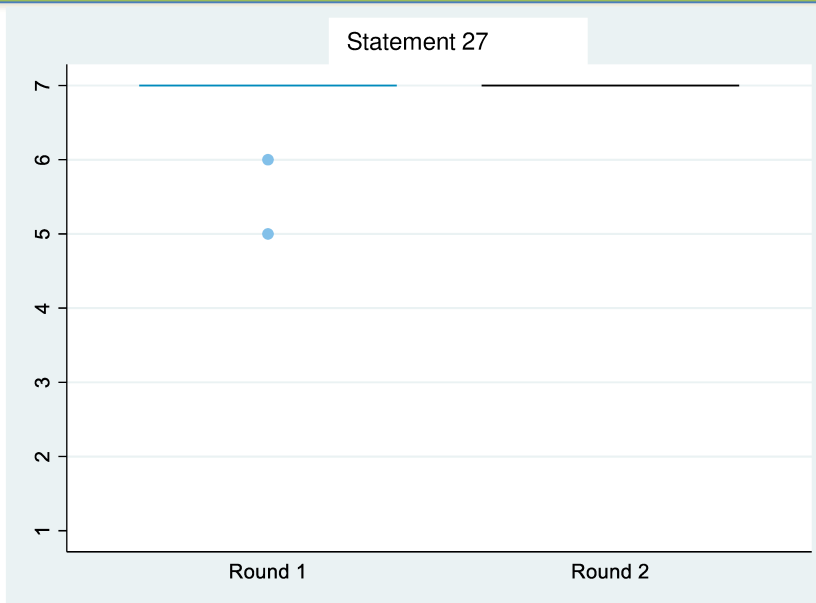
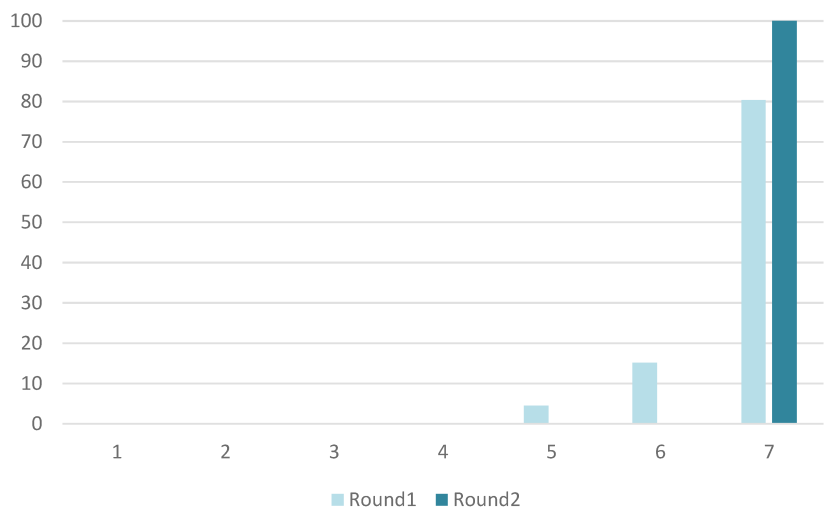
I believe the indications in the national guidelines that refer to the Italian Association of Medical Oncology (AIOM) and international guidelines such as those of the National Comprehensive Cancer Network (NCCN), are clear and usable



	Round 1	Round 2	
Median	6	6	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	6	6	
75° Percentile	7	7	
interquartile range	1	1	

Statement 27

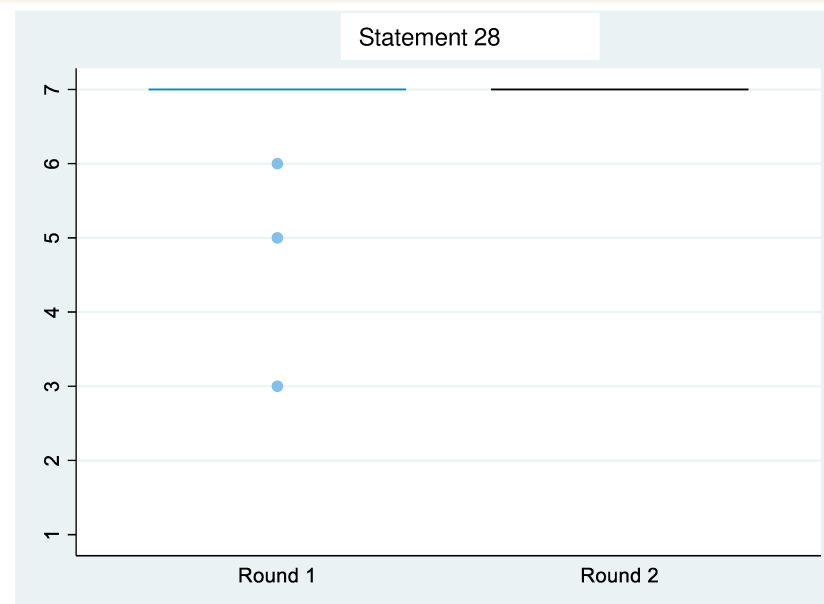
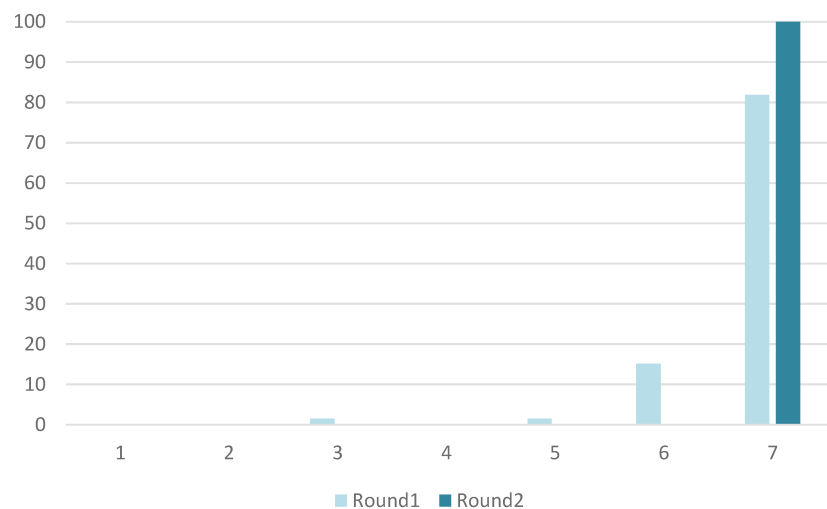
The patient with MCC should be managed within a dedicated network with HUB and SPOKE centres, with reference centres that have a multidisciplinary team



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	7	7	
75° Percentile	7	7	
interquartile range	0	0	

Statement 28

I believe clinical radiological follow-up is always needed in patients with Merkel cell carcinoma



	Round 1	Round 2	
Median	7	7	AGREEMENT AND CONSENSUS WITH THE STATEMENT
25° Percentile	7	7	
75° Percentile	7	7	
Range Interquartilico	0	0	