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European Recommendations from Health Care Professionals and People Living with Obesity on Safe Practice for Bariatric and Metabolic Surgery Medical Tourism: A Modified Delphi Consensus Statement from EASO, IFSO-EC and ECPO

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Author contributions

All authors made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data; (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted. LID takes responsibility for the integrity of the work as a whole, from inception to finished article.

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European Recommendations from Health Care
Professionals and People Living with Obesity on Safe
Practice for Bariatric and Metabolic Surgery Medical
Tourism: A Modified Delphi Consensus Statement from
EASO, IFSO-EC and ECPO



Background

Bariatric and metabolic surgery tourism (BMT) is becoming an increasingly popular route to treatment for patients living with obesity. Recent reports have highlighted that some patients travelling abroad for bariatric surgery have received inadequate care, fraudulent care, and, tragically, some cases have resulted in death. This study aimed to define consensus in Europe regarding safe practices concerning BMT.

Materials and Methods

IFSO-EC, EASO and ECPO initiated a task force to delineate safe practices in BMT. Two expert European panels were convened, one comprised of healthcare professionals (identified from EASO and IFSO-EC) and the other of patient representatives (identified from ECPO). The study utilised a modified Delphi consensus methodology, and 135 questions were administered. Surveys were conducted anonymously online, and consensus was defined as ≥70% agreement. Themes analysed regarding BMT included regulation, pre-operative evaluation, operative care, post-operative care, advertising and online information.

Results

One hundred and nineteen healthcare professionals and 88 patient representatives participated from 26 countries. The healthcare professional panel included 66 bariatric surgeons, 28 endocrinologists, 18 dietitians, three nurses, two psychologists, one general practitioner and one gastroenterologist. Three questionnaire rounds were conducted for the healthcare professional panel, and two were performed for the patient representative panel. Consensus recommendations were given across all themes relevant to BMT. These included evaluating and managing psychological health, sleep apnoea, cardiovascular disease, liver health and dietetic assessment. The recommendations covered the requirements for regulatory standards, including surgeon accreditation and procedural volume. They also included recommendations regarding patient education, standardised operative care, online information provision, and follow-up.

Conclusions

Through collaboration with healthcare professionals and patients living with obesity, we provide European recommendations regarding safe practices concerning BMT. Further evaluation is required regarding outcomes following BMT. These data, alongside the Delphi consensus recommendations, will inform BMT clinical guideline development.

Graphical Abstract



CONCLUSIONS:

- Through collaboration with healthcare professionals and patients living with obesity, we provide European recommendations regarding safe practices concerning BMT.

 Further evaluation is required regarding outcomes following BMT.

Keywords

Bariatric Surgery, Healthcare Tourism, Obesity, Overweight, Patient Safety, Guideline

Introduction

Bariatric and Metabolic Surgery (BMS) is the most effective intervention for weight reduction and health improvement in people living with obesity (1-3). However, access is limited; UK data delineates that although over 3.6 million people in England are eligible for BMS, only 4.035 procedures were carried out in 2021-2022 in the National Health Service (NHS) (4,5). In several European countries, waiting lists can reach multiple years. Consequently, bariatric and metabolic surgery tourism (BMT) is growing in Europe, with patients traveling for self-funded treatment (6). A recent survey by the International Federation for the Surgery of Obesity and Metabolic Disorders (IFSO) delineated that the factors underpinning BMT include higher cost and long waiting lists in the patient's home country (7). A systematic review also reported that multiple factors underpinned the rise of BMT, including long waiting lists, strict criteria for BMS locally, lack of local services and low cost internationally (8). Global data shows BMT accounts for at least 2% of global BMS (9), but this is likely an underrepresentation as BMT is often not recorded in national registries.

There is growing concern about BMT services not following international guidelines. Patient forums and media organisations have detailed some cases of BMT that have resulted in inadequate care, fraudulent care, and, unfortunately, some cases which have resulted in death. A survey of bariatric clinics offering BMT highlighted that 1) 32.4% are internationally accredited, 2) 44% do not address BMS risks and benefits, 3) only 23.5% recommend liaising with the patient's primary care physician and 4) less than a third of centres offer either psychological or dietetic assessment (6). Bariatric centres often use targeted social media campaigns and incentivised packages and it is unclear how safety is prioritised at reduced costs. Patient safety is crucial in modern bariatric care, achieved through the multidisciplinary team's (MDT) work, assessing the patient's physical and psychological health (10). The MDT includes bariatric surgeons, physicians, dietitians, psychologists and other specialists when appropriate (11). When these safety-critical criteria are not adhered to, post-operative complications are more likely (12), which may underpin the cases reported by the media and patients.

The issue of BMT is gaining attention. A recent national consensus on BMT in Mexico focused on safe practice in the pre-operative phase, post-operative phase, patient selection, follow-up, and ethical and legal considerations. However, this study only involved bariatric surgeons in Mexico's medical tourism sector (13). Modern bariatric care involves a specialist MDT; input from other healthcare professionals (HCPs) in bariatrics and from patients would be beneficial (9). This study aims to provide consensus through collaboration with stakeholders within the European Association for the Study of Obesity (EASO), IFSO European Chapter (IFSO-EC) and the European Coalition for People living with Obesity (ECPO) regarding safe practice concerning BMT.

Methods

This study utilised a modified Delphi Consensus methodology based on other projects, including the National Consensus Statement in Mexico (9,14,15). The protocol was drafted

a priori, and the project was approved by a Research Ethics Committee (LRS/DP-23/24-39312). The study was conducted in two phases:

- **Phase 1:** Developing questions for the Modified Delphi Process via literature review and stakeholder collaboration.
- **Phase 2**: Modified Delphi Questionnaire Rounds of healthcare professionals and patient representatives.

Study Population

There were two European panels: one of HCPs and one of patient representatives. Experienced HCPs working within European bariatric centres were identified by liaising with stakeholders within IFSO-EC and EASO. E-mail invites were sent to EASO Collaborating Centers for Obesity Management (COMs), healthcare professional members of EASO and members of IFSO-EC. This panel consisted of bariatric surgeons, endocrinologists, general practitioners, dietitians, psychologists, nurses and other HCPs. The second group consisted of patient representatives. These individuals were identified from ECPO participation; email invites were sent to ECPO members and distributed via respective national societies. We set a sample size of at least 30 for each panel, with no maximum, to gather sufficient data. For the HCP panel, we aimed for at least 40% bariatric surgeons. We also purposely invited participants from across European countries to this study to ensure wider European representation and to minimise the risk of bias from one country's population. Participants were invited to participate through a pre-approved email containing a link to the survey. The survey's initial page contained the participant information sheet, with the subsequent page containing consent information. Informed consent was taken from all participants prior to their participation.

Questionnaire

Questions for the survey of HCPs and expert patients were developed via literature review and collaboration with stakeholders from EASO, ECPO and IFSO-EC. The literature review comprised a search on PubMed, focusing on existing research related to bariatric tourism, which informed the formulation of survey questions. Stakeholder involvement included collaboration among the authors, who were representatives from EASO, IFSO-EC and ECPO.

Healthcare professional stakeholders included representation from across the bariatric MDT. This collaboration involved an online meeting to discuss key topics to be addressed in the study, and all representatives provided detailed contributions throughout the questionnaire development. All questions during the Delphi process involved closed questions on a 5-point Likert scale (options: Strongly Disagree, Disagree, Neither Agree or Disagree, Don't Know, Agree, Strongly Agree). The survey was administered using JISC online survey software. Each section of the questionnaire was composed of open-ended questions to allow participants to provide qualitative input and feedback regarding the questions. These qualitative answers were then analysed alongside the quantitative closed questions to iteratively improve the questions and develop new questions for further rounds. Questions in the second and third rounds were then a mixture of questions from the previous round, which did not achieve Grade A Consensus (>=90% agreement), amendments of previous questions, and new questions developed from qualitative feedback. Questions from previous rounds, which were asked again, included information about the level of agreement in the previous round.

Questions for HCPs revolved around five themes. These included regulation of BMT, the provision of care, eligibility criteria for BMT, operative care, advertising and online information. Specific aspects of eligibility included: 1) Psychological assessment, 2) Dietetic Assessment, 3) Sleep Apnoea assessment, 4) cardiovascular disease assessment and 5) Liver Assessment. Therefore, these questions used branching logic and were only asked to HCPs with specialist knowledge. For example, 'Do you have experience assessing obstructive sleep apnoea in patients undergoing bariatric surgery? 'with a fixed yes/no response. Questions regarding the operative care of patients undergoing BMS were only asked of bariatric surgeons.

Statistical Analysis

Descriptive statistics assessed the panellists' characteristics. Consensus was set *a priori* as ≥70% of participants agreeing/strongly agreeing or disagreeing/strongly disagreeing with a statement. The response 'don't know 'was not used when calculating the consensus level of agreement (level of consensus = (number Agree + number strongly agree) / (total n − number of don't know responses)). The language was iteratively modified to maximise agreement by analysing qualitative feedback on each question. Based on a recent consensus statement by Rubino et al. (14), we used modified criteria to grade consensus: Grade A (≥90% agreement), Grade B (80 to <90.0% agreement), Grade C (70 to <80.0% agreement), No Consensus (<70% agreement). Statements were not progressed to further rounds if ≥90% consensus was achieved, as this represented Grade A consensus.

Results

The Delphi Consensus process ran from 12/10/2023 until 17/05/2024. One hundred and nineteen healthcare professionals and 88 patient representatives participated. The response rate for the HCP panellists was 68.9% (82/119) in Round 2 and 79.0% (94/119) in Round 3. The response rate for the patient representative panel was 65.9% in Round 2. The HCP panel included 66 bariatric surgeons, 28 endocrinologists, 18 dietitians, three nurses, two psychologists, one family medicine specialist and one gastroenterologist. HCPs from 24 countries took part; 22.7% from the UK, 14.3% from Italy, 8.4% from Spain and 5.9% from Germany. Patient representatives from eight countries participated: 78.4% from Ireland, 11.4% from the UK, and 2.3% from Denmark. The HCP panel had an average of ~15.9 ±8.6 years 'experience, totalling 1,686.5 years. The bariatric surgeons completed an average of 185 ±165 surgeries/year, totalling 10,535 surgeries/year. 25.2% of participants had worked in an obesity service in a country different to where they currently practised. HCPs treated an average of 525 ±666 patients/year, totalling 56,698 patients/year (Table 1). 135 statements were assessed: 109 across three HCP panel rounds and 26 across two patient representative panel rounds.

Regulation

Seventeen questions were asked regarding the regulation of BMS abroad. Fifteen statements reached consensus (**Table 2**, 12 Grade A, 2 Grade B, 1 Grade C). Panellists agreed that in the context of BMT, BMS should only be performed by surgeons who are nationally or internationally accredited to perform the procedure (Grade A R1). Panellists also agreed that BMS should be performed by bariatric surgeons, completing at least 50 procedures per year (Grade B R3) and that the institution should undertake at least 100 surgeries per year overall (Grade C R3). Regarding monitoring of BMT, panellists agreed that a European-level risk registry would be beneficial to track instances of inadequate care and patient safety issues following BMT (Grade A R1). There was agreement that a European-level risk registry would be beneficial to track cost-savings and efficiencies across the region (Grade A R2). **Table 2** provided all statements regarding regulation.

Provision of Care

Seventeen questions were asked regarding the provision of care; all reached Grade A consensus. Panellists agreed that patients should be selected based on an MDT assessment (Grade A R2) and that following BMS abroad, bariatric follow-up should be provided for two years by the unit performing the surgery (Grade A R3) and that. Both panels agreed that when there is a language mismatch between the HCP and patient that an independent translator should be provided (HCP panel: Grade A R1, Patient: Grade A R1). HCPs agreed that an upper GI Endoscopy should be performed before BMS abroad (Grade A R3). Panellists also agreed that patients who are of female biological sex and child-bearing potential should have a pregnancy test before surgery (Grade A R1) and be counselled regarding the risks of pregnancy following BMS (Grade A R1). Before BMS abroad, patients should: 1) undergo an alcohol intake assessment (Grade A R2); 2) have a full biochemistry blood panel (Grade A R2); 3) be counselled regarding the optimal post-operative nutritional supplementation regimen (Grade A R1); and 4) be aware of the post-operative complications that can occur due to inadequate micronutrient supplement adherence (Grade A R2). **Table 3** provides all statements regarding the provision of care.

Eligibility Criteria for BMS

Eleven questions were asked regarding the eligibility assessment for BMS abroad, and nine reached consensus (4 Grade A, 3 Grade B, 2 Grade C). HCPs agreed that patients with a body mass index (BMI) <30 (Grade A R2) and a BMI >60 (Grade C R3) should not be considered for BMS abroad. They did not agree on whether patients with obesity Class 1 and associated diseases should be offered BMS abroad (No Consensus R3). Panellists agreed that patients >65 years old should not undergo BMS abroad and should be directed to local services (Grade C R3). They also agreed that patients with significant functional impairment should not be considered for BMS abroad (Grade B R3). Panellists agreed that the patient's medical records should be assessed for medical history (Grade A R3) and cardiovascular disease history (Grade A R3) before BMS abroad. **Table 4** provides all statements regarding eligibility for BMS.

Psychological Health: 74% (n=88) of panellists had expertise to answer statements regarding psychological assessment. Six questions were asked, and all reached Grade A consensus. Panellists agreed that patients should be psychologically screened before BMS abroad (Grade A R1) and that if there is significant psychological risk detected through screening (i.e. $PHQ-9 \ge 15$), they should be assessed by a suitably trained psychologist and/or psychiatrist to ensure psychological readiness for BMS (Grade A R1). **Table 4** provides all statements regarding psychological assessment.

Dietetic Assessment: 84.9% (n=101) of panellists had expertise to answer statements regarding dietetic assessment. Five questions were asked, and all reached Grade A consensus (**Table 4**). Panellists agreed that when patients undergo BMS abroad, they should be: 1) screened by a suitably trained dietitian before BMS (Grade A R1); 2) screened and treated for nutritional deficiencies (Grade A R1); 3) advised on the need for life-long micronutrient supplementation and given guidance on appropriate regimens (Grade A R1) and 4) given guidance on eating behaviours required following BMS (Grade A R1). Patients also agreed that patients must be provided with information regarding nutritional supplements required following BMS (Grade A R1).

Sleep Apnoea Assessment: 73.1% (N=87) of panellists had expertise to answer statements regarding sleep apnoea assessment. Four questions were asked, and three reached consensus (Table 4; 2 Grade A, 1 Grade C). Panellists agreed that patients should be screened for sleep apnoea (Grade A R2) and, if deemed to be high-risk through screening, should undergo appropriate diagnostic tests and be established on treatment before BMS abroad (Grade A R1). They agreed that patients with uncontrolled moderate to severe obstructive sleep apnoea (OSA) should not undergo BMS abroad (Grade C R3); however, there was no agreement on whether obesity hypoventilation syndrome is a contraindication to BMS abroad (No Consensus R3).

Cardiovascular Disease Assessment: 63.0% (n=75) of panellists had the expertise to answer statements regarding cardiovascular disease (CVD) assessment. Five questions were asked, and all reached consensus (**Table 4**; 4 Grade A, 1 Grade B). Panellists agreed that patients should be screened for CVD (Grade A R2) and that if they are deemed high risk, they should

have an echocardiogram, at a minimum, before BMS (Grade A R1). They also agreed that those at high risk for CVD should be evaluated by a cardiologist (Grade A R3) and anaesthetist (Grade A R2) before BMS abroad. Panellists agreed that patients with type 2 diabetes mellitus (T2DM) should be considered for cardiology investigations to rule out silent coronary heart disease before BMS abroad (Grade B R3).

Liver Assessment: 58.8% (n=70) of panellists had expertise to answer statements regarding liver assessment. Three questions were asked, and all reached consensus (**Table 4**; 2 Grade A, 1 Grade C). Panellists agreed that patients should have a FIB-4 score or fibroscan to screen for liver fibrosis before BMS abroad (Grade C R3). They also agreed that patients with Child-Pugh Class B or C liver disease (Grade A R3) or a history of oesophageal varices (Grade A R2) should not be considered for BMS abroad.

Operative Care Questions

52.9% (n=63) of the HCP panel were bariatric surgeons and provided input regarding operative care. Panellists agreed that in the context of BMT, pharmacological thromboprophylaxis should begin the day before surgery or at induction of anaesthesia unless contraindicated (Grade C R3). Consensus was reached that thromboprophylaxis should be continued for up to 4 weeks following BMS abroad, dependent on clinical and surgical factors (Grade C R3) and that thromboprophylaxis should be weight-adapted (Grade B R3).

Panellists agreed that proton pump inhibitors (PPIs) should be continued for at least one month (Grade B R3) and up to 6 months following BMS abroad, depending on the procedure and risks (Grade C R3). There was no agreement on whether ursodeoxycholic acid should be given following BMS abroad (No Consensus R3).

Panellists were asked whether patients should stay in the location of the BMS for 5, 7, or 10 days following the procedure. Panellists agreed that patients should stay in the geographical location of the surgery for five days (Grade B R3) and seven days (Grade C R3). More

panellists agreed with the 5-day minimum. Panellists agreed that when patients have significant complications following BMS abroad, they should only be cleared to travel home by their treating bariatric surgical team once these have been addressed (Grade A R2). Both panels agreed that the bariatric surgeon should liaise with the patient's doctor in their home country to facilitate follow-up (HCP: Grade A R2, Patient: Grade B R2).

Both HCPs and expert patients agreed that the bariatric surgeon should provide all relevant documentation for the patient's ongoing care in their home country (HCP & Patient: Grade A R1). Panellists agreed that patients should be screened for symptomatic gallstone disease before BMS abroad (Grade B R3) and that if present they should have a cholecystectomy performed before or at the same time as BMS (Grade C R3). **Table 5** provides all recommendations for operative care.

Advertising and Online Information

Panellists agreed that bariatric centres should not use targeted social media campaigns to identify potential patients for BMS abroad (Grade B R3). Both Panels agreed that when special offers or discounted rates are offered, this raises concern regarding the quality of care provided (HCP: Grade A R3, Patient: Grade A R1). Panellists agreed that social media platforms should not allow advertising of bariatric surgery by centres that are not approved/accredited by relevant international organisations, i.e. IFSO/EASO (Grade A R2). **Table 6** provides all recommendations for advertising and online information.

Sensitivity Analysis

A sensitivity analysis of Round 1 responses from the healthcare professional panel was conducted on 10 statements that did not achieve consensus (Supplementary Material) Regional differences were apparent among the responses. Surgeons from Middle and Southern Europe were more inclined to recommend initiating pharmacological thromboprophylaxis the day before surgery. Surgeons from Middle Europe were also more likely to recommend a six-month regimen of Proton Pump Inhibitors (PPI). In contrast, surgeons from Northern Europe were less likely to recommend a six-month course of Ursodeoxycholic acid (Ursofalk) following bariatric surgery. With respect to professional

backgrounds, dietitians and endocrinologists generally demonstrated a higher degree of agreement compared to surgeons.

Discussion

We conducted a modified Delphi consensus project regarding BMT in Europe. This project analysed 135 statements and recruited 207 participants from 26 countries across two panels, with 126 statements reaching consensus. Our consensus recommendations include pre-operative, peri-operative, and post-operative care. Consensus was reached regarding the necessity for pre-operative evaluation of psychological health, sleep apnoea, CVD, liver health and dietetic assessment. We also recommend regulatory standards, including surgeon accreditation and procedural volume. Finally, we recommend patient education, standardised surgical care, online information, and comprehensive follow-up. There is limited data on outcomes from BMT; these consensus recommendations provide guidelines for HCPs while more quantitative data is gathered to inform clinical practice.

Our Delphi study is the first international consensus project on BMT. There has only been one National Delphi study on BMT within Mexico. This study recruited 32 bariatric surgeons and included 52 items; in comparison, we recruited 207 participants from various disciplines and 135 items (13). Previous data has highlighted the risks of surgical tourism. Research from Canada showed the complication rate for BMS tourists was 42.2-56.1% compared to the 12.3% complication rate for locally operated patients (16,17). In comparison, there are instances when travelling for BMS is safe and effective. A retrospective cohort study in the USA compared the outcomes of local vs destination BMS (driving time >2 hours from the bariatric centre) at accredited centres. The study found no significant difference in patient outcomes or complication rates between groups 30 days following surgery. Notably, all centres were accredited and provided comprehensive pre and post-operative care, ensured

effective communication with local HCPs and required patients to stay in a local hotel for 1 week post-operatively. However, the findings of this study may not be generalisable to international settings, particularly where post-operative travel involves flying, which presents additional risks (18). Regarding Europe, there is currently no published data evaluating the outcomes following bariatric tourism. Overall, quantitative European data is therefore required.

We recommend multiple aspects in providing bariatric surgical care abroad, aligning with international standards. Surgical units should provide at least two years of follow-up, in line with published literature (19). The MDT is central to bariatric care; we recommend MDT assessment for all patients undergoing BMS abroad (20,21). We recommend an upper gastrointestinal endoscopic evaluation before BMS, as a recent study shows patients undergoing BMS have various endoscopic pathologies, potentially impacting procedure choice (22). For lifestyle, we recommend pre-operative alcohol screening and counselling on limiting alcohol intake pre- and post-operatively due to the increased risk of alcohol use problems following BMS (23).

Our Delphi consensus statement delineates several strategies to improve patient safety in the context of bariatric tourism. We recommend two-years post-operative follow-up provided by the surgical unit performing the procedure. Additionally, we emphasise the importance of patient education on post-operative complications, including the risks with inadequate micronutrient supplementation and the use of non-steroidal anti-inflammatory drugs (NSAIDs). We also advise on the appropriate duration of thromboprophylaxis and proton pump inhibitors (PPIs) following surgery. We recommend that patients remain in the vicinity of the surgical facility for at least five days post-operation, given the potential risk associated with early travel post-surgery. These measures are supported by a thorough preoperative evaluation aimed at minimizing perioperative and post-operative risks. Finally, although not assessed in the delphi, future research could also establish whether recording of surgical videos (given advancements in laparoscopic surgery) could be a method to ensure and assess surgical quality. These methods together with others in our manuscript prioritise patient safety.

Our Delphi consensus also recommends several regulatory standards to improve patient safety. We recommend accreditation of the centres, surgeons, and their surgical methods. Additionally, the regulation of bariatric tourism should be at both national and European levels to maintain consistency. We also recommend that, potentially, a European-level risk registry, would be helpful to track patient outcomes and highlight any patient safety risks in bariatric tourism. Lastly, we recommend the importance of providing patients with detailed, accessible online information, facilitating informed and safer decision making.

A comprehensive evaluation of patients considered for BMS is crucial. Although BMS has substantial long-term benefits for T2DM, Metabolic-Associated Steatotic Liver Disease (MASLD) (24), cardiovascular health and mortality, there are risks (25). The perioperative mortality rate is 0.03% to 0.2%, but it was higher before modern bariatric care (26). Post-operative severe adverse events include haemorrhage, venous thromboembolism and anastomotic leak (27). We recommend that only patients with a BMI of 30-60kg/m² are considered for BMS abroad. While guidelines allow BMS for BMI 30-35kg/m² with an obesity-related complication (28,29), our panel disagrees in the context of BMT. Non-surgical options, like obesity pharmacotherapy, may be the most appropriate initial management in this group (30,31). Panellists also agreed that patients >65 years old or with significant functional impairment should not be considered for BMS abroad. This may relate to increased risk of sarcopenic obesity (obesity with loss of muscle mass) in these groups, which may increase post-operative risks (32,33). Local specialised obesity management services should provide access to care for these patients.

There was consensus on assessment of psychological health, dietetics, sleep apnoea, CVD and liver health. Although BMS is associated with improving anxiety and depression (34,35), it is also linked to suicide and self-harm (36). We recommend rigorous psychological screening for patients accessing BMT and excluding those with severe psychiatric conditions (37). Furthermore, post-operative changes in medication absorption, i.e. antipsychotics and mood stabilisers, may require psychiatrist input (38,39). There is also a risk of contributing to mental health deterioration, which, in the case of serious mental illness, can be lifelimiting (36).

Regarding dietetic assessment, BMS can cause long-term nutritional deficiencies without appropriate micronutrient regimens (40,41). We recommend that patients be screened and treated for nutrient deficiencies before surgery, educated on nutritional requirements and regimens and risks of non-adherence, and potentially supplied with an initial micronutrient regimen. Pre-operative correction of deficiencies and patient education pre- and post-operatively may improve outcomes (42).

Patients undergoing BMS with OSA are at elevated risk of post-operative complications, including reintubation and cardiovascular complications (43,44). Panellists agreed on the need for sleep apnoea screening and treatment before BMS abroad. Although BMS is associated with a reduced risk of CVD long-term (45–47), peri-operative major adverse cardiac events are more common in those with CVD (48). We recommend pre-operative cardiovascular screening, echocardiography for high-risk patients and consideration of cardiology investigations for those with T2DM. Whilst BMS treats MASLD (24,49), complication rates are higher in patients with liver cirrhosis, and oesophageal varices are a surgical contraindication (50,51). We recommend liver fibrosis screening and exclusion of patients with advanced liver disease or oesophageal varices in BMT.

Over half of the HCP panel were bariatric surgeons. Surgeons agreed that patients should stay a minimum of five days post-surgically in the location of the procedure, ensuring early complications are managed before travel. The Mexican Delphi recommended a 3-day minimum; however, all surgeons participating were engaged in medical tourism, potentially biasing the findings (13). Furthermore, depending on clinical factors, we recommend anticoagulation for up to four weeks post-procedure. The Mexican Delphi process did not reach a consensus on treatment duration. Our approach considers patient-specific venous thromboembolism and bleeding risks when deciding treatment duration (13). No consensus was reached on using ursodeoxycholic acid following BMS. This is interesting as ursodeoxycholic acid reduces the risk of gallstone-associated morbidity (52–54). Finally, we recommend PPI continuation for at least one month and up to 6 months, depending on the procedure and risks. This treatment range reflects the variability in practice; with recent data showing considerable differences in PPI treatment duration post-operatively (55).

Going forward, we recommend that further outcome data is acquired to inform future guideline development. For instance, findings from a European-level risk registry could significantly influence evidence-based modifications in both clinical practice and future guidelines. This outcome data could also be used to inform broader policy recommendations at a national and European data. For example if data reveals certain practices contributes towards improved outcomes, these practices could be promoted through policy. Overall these quantitative data coupled with our previous Delphi recommendations will inform future guideline and policy recommendations.

Strengths and Limitations

This study had several strengths. Firstly, it involved various stakeholders, including HCPs from different disciplines and patient representatives. This broad inclusion enhanced the validity and applicability of the consensus recommendations. Secondly, participants from 24 countries ensured the recommendations considered diverse healthcare systems, making the findings relevant across Europe. Thirdly, we included HCPs from across the MDT, reflecting modern bariatric care as recommended in clinical guidelines. Finally, the study produced detailed consensus statements covering various aspects of BMT. This approach provides clear guidance for improving patient safety and care quality.

This study does have limitations. Firstly, despite the broad geographical inclusion, there was a higher representation of participants from Ireland and the UK in the patient panel. This could introduce a selection bias, potentially limiting the generalisability of the findings to other regions. This may be due to the survey being in English, excluding non-English speakers. Secondly, while the Delphi method is valuable for consensus-building, the recommendations are based on expert opinion rather than empirical data. Thirdly, variability in clinical practices across Europe may challenge uniform implementation of the consensus recommendations. Fourth, we did not collect information from patient representatives regarding whether they had either travelled abroad for bariatric surgery or experienced a post-operative complication, limiting our ability to stratify analysis.

Conclusions

We conducted a modified Delphi consensus project addressing BMT in Europe. This project analysed 135 statements and recruited 207 participants from 24 countries across two separate panels, with 126 statements reaching consensus. Our recommendations include pre-operative, peri-operative and post-operative evaluations. Consensus was reached on the necessity for pre-operative evaluation of psychological health, dietetic assessment, sleep apnoea, cardiovascular disease and liver health. We recommend additional regulatory standards, including surgeon and centre accreditation and procedural volume. Finally, we recommend patient education, standardised surgical care, online information and comprehensive follow-up. Further research should focus on obtaining quantitative outcome data from BMT to inform clinical practice.

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SDC Link: http://links.lww.com/JS9/D592

Table 1. Demographic Characteristics of Healthcare Professional Survey Panel

Healthcare	Demographic		Number (%)
Professional	Sample Size		119
Panel	Country	United Kingdom (UK)	27 (22.7%)
		Italy	17 (14.3%)
		Spain	10 (8.4%)
		Germany	7 (5.9%)
		The Netherlands	7 (5.9%)
		Ireland	6 (5.0%)
		France	6 (5.0%)
		Switzerland	5 (4.2%)
		Turkey	4 (3.4%)
		Sweden	4 (3.4%)
		Romania	4 (3.4%)
		Austria	3 (2.5%)
		Portugal	2 (1.7%)
		Poland	2 (1.7%)
		Norway	2 (1.7%)
		Israel	2 (1.7%)
		Greece	2 (1.7%)
		Denmark	2 (1.7%)
		Belgium	2 (1.7%)
		North Macedonia	1 (0.8%)
		Serbia	1 (0.8%)
		United Arab	1 (0.8%)
		Emirates	()
		Croatia	1 (0.8%)
		Bulgaria	1 (0.8%)
	Profession	Bariatric Surgeon /	66 (55.5%)
		Surgeon	,
		Endocrinologist	28 (23.5%)
		Dietitian	18 (15.1%)
		Nurse Practitioner /	3 (2.5%)
		Bariatric Specialist	
		Nurse	
		Psychologist	2 (1.7%)
		General Practitioner	1 (0.8%)
		Gastroenterologist	1 (0.8%)
	Surgeons (number of	Total	10535
	surgeries per year)	Mean ± SD	182 ± 165
		Median (IQR)	135 (70 – 250)
	Years Involved in Care of	Total	1686.5 years
	People living with Obesity	Mean ± SD	15.9 ± 8.6
		Median (IQR)	15 (10 – 21)
	Worked in a obesity service	Yes	30 (25.2%)
	in a country different to	No	89 (74.8%)

	where you currently practice?		
	Number of patients treated	Total	56698
	for obesity each year	Mean ± SD	525 ± 666
		Median (IQR)	300 (150 – 500)
Patient Panel	Sample Size		88
	Country	Ireland	69 (78.4%)
		United Kingdom	10 (11.4%)
		Denmark	2 (2.3%)
		Iceland	2 (2.3%)
		Hungary	1 (1.1%)
		Romania	1 (1.1%)
		Poland	1 (1.1%)
		Sweden	1 (1.1%)
		Italy	1 (1.1%)

Table 2: Regulation of Bariatric Surgery Tourism

Q	Statements	Agreem ent (%)	Consensu s
Q1.	Bariatric and metabolic surgery in Europe should only be performed at centres of obesity management which are accredited by either EASO (The European Association for the Study of Obesity) or the country's representative national Bariatric and Metabolic surgery (BMS) society or Surgical society.	91.5%	Grade A (R1)
Q2.	Bariatric and metabolic surgery should only be undertaken by surgeons that have national or international accreditation to perform the procedure.	93.3%	Grade A (R1)
Q3.	All staff (i.e. bariatric surgeons, dietitians, endocrinologists, psychologists) involved in the care of patients undergoing bariatric surgery abroad should be appropriately trained and certified to deliver the care.	98.8%	Grade A (R2)
Q4.	Only surgical procedures/methods which are accredited by either IFSO (International Federation for the Surgery of Obesity and Metabolic Disorders) or a National Bariatric and Metabolic Surgery society, which regularly evaluates surgical procedures, should be performed in the context of surgical tourism.	94.0%	Grade A (R1)
Q5.	Bariatric and metabolic surgical procedures in the stages of research development should not be performed in the context of medical tourism.	92.2%	Grade A (R1)

Q6.	The indication for bariatric and metabolic surgery in any country should follow IFSO (International Federation for the Surgery of Obesity and Metabolic Disorders) guidelines if no national guidelines are available.	97.5%	Grade A (R1)
Q7.	Bariatric and metabolic surgery should only be performed by surgeons who complete at least 50 procedures per year.	85.1%	Grade B (R3)
Q8.	Bariatric and metabolic surgery should only be performed by surgeons who complete at least 100 procedures per year.	53.9%	No Consensus (R2)
Q9.	Bariatric and metabolic surgery should only be provided in private practice when both the lead surgeon and assistant surgeon are trained and certified in bariatric and metabolic surgery.	85.1%	Grade B (R3)
Q11	Bariatric and metabolic surgery should only be undertaken at institutions which conduct at least 100 surgeries per year overall.	79.8%	Grade C (R3)
Q10.	Bariatric and metabolic surgery should only be undertaken at institutions which conduct at least 200 surgeries per year overall.	40.8%	No Consensus (R2)
Q12	A European-level risk registry would be beneficial to track instances of inadequate care and patient safety issues following bariatric and metabolic surgery tourism.	92.7%	Grade A (R1)
Q13.	Bariatric and metabolic surgery tourism should be regulated at a National and European Level.	95.1%	Grade A (R2)
Q14.	Bariatric and metabolic surgeries should be recorded in a national registry in the country where the procedure is performed, when a national registry exists within the country.	96.6%	Grade A (R1)
Q15.	Bariatric and metabolic surgeries should be recorded in a national registry in the home country that the patient returns to following the procedure, if allowed by the home country's regulations and the details of the surgery are clear from medical documentation.	94.6%	Grade A (R3)
Q16.	A European-level risk registry would be beneficial to track instances of cost-savings and efficiencies across the region.	94.9%	Grade A (R2)
Q17.	The causes of bariatric and metabolic surgery tourism should be researched.	90.1%	Grade A (R2)

Table detailing Delphi results regarding regulation of BMT. All participants answered these statements. Round 1 n=119; Round 2 n=82; Round 3 n=94. R1=Round 1; R2=Round 2; R3=Round 3; n=number

Table 3 Provision of Care

Q	Statement	%	Consensu
		Agreement	S
Q1.	In the context of surgical tourism, bariatric follow up should be provided for 2 years by the unit performing the surgery.	92.4%	Grade A (R3)
Q2.	Prior to bariatric surgery, patients should be provided with clear information about the risks and benefits of the surgery including the increased risk of having this surgery away from home, before travelling abroad.	95.8%	Grade A (R1)
Q3.	Patients should have written and verbal consent taken prior to bariatric and metabolic surgery.	97.5%	Grade A (R1)
Q4.	Patients undergoing bariatric surgery abroad should be selected for surgery based on a multidisciplinary team's assessment.	95.1%	Grade A (R2)
Q5.	Patients should be provided with an independent translator for all conversations where there is a language mismatch between the healthcare professional (i.e. bariatric surgeon, dietitian, psychologist) and the patient.	91.5%	Grade A (R1)
Q6.	Patients should have an upper gastrointestinal endoscopy prior to proceeding with bariatric and metabolic surgery.	91.0%	Grade A (R3)
Q7.	Patients who are of female biological sex and child-bearing potential should have a urinary or serum pregnancy test, at a minimum, in the days prior to proceeding with bariatric and metabolic surgery.	95.1%	Grade A (R1)
Q8.	Patients who are of female biological sex and child-bearing potential should have counselling regarding the risks of pregnancy in the 18 months following bariatric and metabolic surgery.	97.5%	Grade A (R1)
Q9.	Patients should undergo alcohol intake assessment through a suitable validated questionnaire (i.e. AUDIT-C) or by a healthcare professional prior to proceeding with bariatric and metabolic surgery.	95.0%	Grade A (R2)
Q10	Patients should be advised on the need to limit post- operative alcohol intake prior to proceeding with bariatric and metabolic surgery.	98.3%	Grade A (R1)
Q11	Patients should be advised on the need to limit pre- operative alcohol intake prior to proceeding with bariatric and metabolic surgery.	98.8%	Grade A (R2)
Q12	Patients should be advised on cessation of smoking prior to bariatric and metabolic surgery.	97.4%	Grade A (R1)
Q13	Patients should be asked about recreational drug use before proceeding with bariatric and metabolic surgery.	97.5%	Grade A (R2)

Q14	Patients should have a biochemistry assessment (including, full blood count, renal profile, liver function tests, glucose, HbA1c, lipid profile, thyroid function test, Calcium profile, Vitamin B12, Vitamin D, iron studies and Parathyroid Hormone) prior to proceeding with bariatric and metabolic surgery.	97.6%	Grade A (R2)
Q15	Prior to bariatric and metabolic surgery, patients should be counselled regarding the optimal post-operative nutritional supplementation based on their surgical procedure.	100%	Grade A (R1)
Q16	Patients should be aware of the post-operative complications which can occur due to inadequate micronutrient supplement adherence prior to proceeding with bariatric and metabolic surgery.	100.0%	Grade A (R2)
Q17	Patients should be advised about the risk of taking NSAIDs (Non-steroidal anti-inflammatory drugs) post-operatively, prior to proceeding with bariatric and metabolic surgery.	97.5%	Grade A (R2)

Table detailing Delphi results regarding Provision of Care. All participants answered these statements. Round 1 n=119; Round 2 n=82; Round 3 n=94. R1=Round 1; R2=Round 2; R3=Round 3; n=number

Table 4: Eligibility for Bariatric Surgery abroad

ſ	Sub-Section	Q	Question	%	Consen
14				Agreem ent	sus
HKJENEZabsino	General Eligibility	Q1.	In the context of medical tourism, patients with BMI >60 kg/m2 should not undergo bariatric and metabolic surgery.	79.1%	Grade C (R3)
4XMIOHOVWCX1	ed from https://jo	Q2.	In the context of medical tourism, patients with BMI < 30 kg/m2 should not undergo bariatric and metabolic surgery.	91.4%	Grade A (R2)
	oaded from https://joumals.lww.com/international-journal-of-surgery by BhDMf5ePHKav1zEoum1tQfN	Q3.	In the context of medical tourism, patients aged >65 years old should not be considered for bariatric and metabolic surgery and instead should be directed towards bariatric services within their home country.	74.7%	Grade C (R3)
X (AVVIII) OD III D33D000LB VIII VSE 14C (3VC V0AbbuQZ XdIWIII XZ B Y IWS	ational-journal-of-sur	Q4.	In the context of medical tourism, patients with significant functional impairment (i.e. severe pain or dyspnoea that requires use of a wheelchair) should not be considered for bariatric and metabolic surgery.	80.2%	Grade B (R3)
/C1v0abaa@ZXc	gery by BhDMf5	Q5.	In the context of medical tourism, only patients with ASA grade <=4 should undergo bariatric and metabolic surgery at accredited centres.	84.1%	Grade B (R3)
ItwrifkZBYtws= c	ePHKav1zEoum	Q6.	In the context of medical tourism, patients with active malignancy should not be considered for bariatric and metabolic surgery.	95.1%	Grade A (R2)
JII 12/30/2024	1tQfN	Q7.	Patients undergoing bariatric surgery abroad should be assessed for signs of hypercortisolism.	68.2%	No Consen sus
		Q8.	Patients undergoing bariatric surgery abroad with signs of hypercortisolism should undergo an overnight dexamethasone suppression test to exclude Cushing's Syndrome prior to surgery.	83.3%	Grade B (R3)
		Q9.	A copy of the patient's medical records, from the patient's home country, should be assessed for the medical history, prior to proceeding with bariatric surgery abroad.	94.6%	Grade A (R3)
		Q10.	A copy of the patient's medical records, from the patient's home country, should be assessed for the patient's cardiovascular disease history, prior to proceeding with bariatric surgery abroad.	93.5%	Grade A (R3)
		Q11.	In patients with obesity class 1 and associated diseases (i.e. Type 2 Diabetes, MASLD, Obstructive Sleep Apnoea), tourism for bariatric and metabolic surgery should not be offered.	66.7%	No Consen sus (R3)

Psychologic al Assessment	Q12.	Patients should undergo psychological health screening prior to proceeding with bariatric and metabolic surgery.	98.9%	Grade A (R1)
Downloaded from https://jouma	Q13.	If significant psychological risk is detected through psychological health screening (i.e. PHQ-9 => 15, history of disordered eating, psychological diagnosis), patients should be assessed by a suitably trained psychologist and/or psychiatrist, to ensure psychological readiness for bariatric and metabolic surgery.	100%	Grade A (R1)
als.lww.com/internati	Q14.	Patients with a history of untreated bulimia nervosa or anorexia nervosa should not be considered for bariatric and metabolic surgery.	95.2%	Grade A (R2)
nal-journal-of-surgen	Q15.	In the context of medical tourism, patients with active suicidal ideation or previous high-risk suicide attempt, should not be considered for bariatric and metabolic surgery.	94.3%	Grade A (R1)
у by ВһDМf5еРНКаv	Q16.	In the context of medical tourism, patients with significant cognitive impairment should not be considered for bariatric and metabolic surgery.	90.3%	Grade A (R2)
1zEoumítQfV	Q17.	In the context of medical tourism, patients with a history of severe psychiatric diagnosis (i.e. schizophrenia, bipolar disorder, major depressive episode within the last 12 months requiring hospitalisation) and without at least 12 months of mental health stability should not be considered for bariatric and metabolic surgery.	95.2%	Grade A (R2)
Dietetic Assessment	Q18.	Patients should be assessed by a suitably trained registered dietitian prior to proceeding with bariatric and metabolic surgery.	97.0%	Grade A (R1)
	Q19.	Patients should be screened for nutritional deficiencies, including protein malnutrition, Iron, Vitamin D, Vitamin B12, and Folate, and if present these deficiencies should be corrected prior to bariatric and metabolic surgery.	97.0%	Grade A (R1)
	Q20.	Patients should be advised on the need for life-long micronutrient supplementation and given guidance on appropriate vitamin and mineral regimens to meet requirements, following bariatric and metabolic surgery.	100.0%	Grade A (R1)

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	Q21.	Patients should be given verbal and written guidance on eating behaviours that maximise nutrient intake, and minimise gastrointestinal difficulties, following bariatric and metabolic surgery.	100.0%	Grade A (R1)
Downloaded from	Q22.	Patients should have a good understanding of the necessary postoperative lifestyle and eating behaviour changes, prior to consenting to and proceeding with bariatric and metabolic surgery.	99.0%	Grade A (R1)
Sleep Apnoea Assessment	Q23.	Patients should be screened for obstructive sleep apnoea, with a suitable validated questionnaire (i.e. STOP-BANG or Epworth Sleepiness Scale) or by a healthcare professional, prior to proceeding with bariatric and metabolic surgery.	92.8%	Grade A (R2)
international-journal-of-su	Q24.	Patients deemed high risk for obstructive sleep apnoea via screening should undergo appropriate diagnostic tests and, if appropriate, be established on appropriate sleep apnoea treatment, before proceeding with bariatric and metabolic surgery.	97.7%	Grade A (R1)
omvinternational-journal-of-surgery by BhDMf5ePHKav1zEoum1tQfN	Q25.	In the context of medical tourism, patients with uncontrolled moderate to severe obstructive sleep apnoea (i.e. not established on appropriate treatment), should not be considered for bariatric and metabolic surgery.	77.8%	Grade C (R3)
1zEoum1tQfN	Q26.	In the context of medical tourism, patients with obesity hypoventilation syndrome should not be considered for bariatric and metabolic surgery.	44.8%	No Consen sus
Cardiovascu lar Assessment	Q27.	Patients should be screened for cardiovascular disease prior to proceeding with bariatric and metabolic surgery.	92.9%	Grade A (R2)
	Q28.	Patients at high risk of cardiovascular disease, should have an echocardiogram at a minimum prior to proceeding with bariatric and metabolic surgery.	91.5%	Grade A (R1)
	Q29.	Patients at high risk of cardiovascular disease should be evaluated by a cardiologist prior to proceeding with bariatric and metabolic surgery.	92.4%	Grade A (R3)
	Q30.	Patients at high risk of cardiovascular disease should be evaluated by an anaesthetist prior to proceeding with bariatric and metabolic surgery.	98.2%	Grade A (R2)

£3.	Q31.	Patients with Type 2 Diabetes Mellitus should be considered for cardiological investigations to rule out silent coronary heart disease prior to proceeding with bariatric and metabolic surgery.	81.3%	Grade B (R3)
Liver Assessment	Q32.	Patients should have a FIB-4 score or fibroscan to screen for liver fibrosis prior to proceeding with bariatric and metabolic surgery.	71.4%	Grade C (R3)
m https://journals.lww	Q33.	In the context of medical tourism, patients with Child- Pugh Class B or C Chronic Liver Disease should not be considered for bariatric and metabolic surgery.	95.0%	Grade A (R3)
com/international-jou	Q34.	In the context of medical tourism, patients with a history of oesophageal varices should not be considered for bariatric and metabolic surgery.	96.6%	Grade A (R2)

Table detailing Delphi results for eligibility assessment Includes multiple sub-sections All participants answered general eligibility subsection (Retention: Round 1 n=119; Round 2 n=82; Round 3 n=94). N=88 answered questions regarding psychological assessment (Retention Round 1 n=88; Round 2 n=62). N=101 answered questions regarding dietetic assessment (Retention Round 1 n=101; no further rounds). N=87 answered questions regarding sleep apnoea assessment (Retention: Round 1 n=87; Round 2 n=69; Round 3 n=73). N=75 answered questions regarding CVD assessment (Retention: Round 1 n=75; Round 2 n=57; Round 3 n=66). N=70 answered questions regarding liver assessment (Retention: Round 1 n=70; Round 2 n=68; Round 3 n=63)

R1=Round 1; R2=Round 2; R3=Round 3; n=number

Table 5: Operative Care

Q	Question	% Agreement	Consens
Q1.	Patients should have a prescription of pharmacological thromboprophylaxis to begin the day prior to surgery or thromboprophylaxis at the induction of anaesthesia when undergoing bariatric and metabolic surgery, unless contraindicated.	73.7%	Grade C (R3)
Q2.	Patients should have pharmacological thromboprophylaxis for up to 1 week following bariatric and metabolic surgery.	46.0%	No Consensu s (R2)
Q3.	Patients should have pharmacological thromboprophylaxis for up to 2 weeks following bariatric and metabolic surgery.	36.7%	No Consensu s (R2)
Q4. Repartment of the control of	Patients should have pharmacological thromboprophylaxis for up to 4 weeks following bariatric and metabolic surgery abroad, dependent on clinical and surgical factors.	72.4%	Grade C (R3)
Q5.	Pharmacological thromboprophylaxis should be weight adapted for patients undergoing bariatric and metabolic surgery.	80.7%	Grade B (R3)
Q6. BhDMf	Patients should receive peri-operative prophylactic antibiotics when undergoing bariatric and metabolic surgery.	98.0%	Grade A (R2)
Q7.	Patients should receive a Proton Pump Inhibitor for at least 1 month following bariatric and metabolic surgery.	87.7%	Grade B (R3)
Q8.	Patients should receive a Proton Pump Inhibitor for up to 6 months following bariatric and metabolic surgery, depending on the procedure and risks (i.e. smoking).	75.0%	Grade C (R3)
Q9.	Patients with a gallbladder and without pre-operative gallstones as determined by ultrasound evaluation should be provided with 6 months of ursodeoxycholic acid (i.e. Ursofalk) following bariatric and metabolic surgery	55.4%	No Consensu s (R3)
Q1 0.	Patients should be advised on the changes in the absorption of some medications (i.e. anti-epileptics, anticoagulants, psychotropic medications) following bariatric and metabolic surgery.	100.0%	Grade A (R1)
Q1 1.	In the context of medical tourism, patients should stay at least 5 days post-operatively in the geographical location of the bariatric and metabolic surgery before travelling home.	89.5%	Grade B (R3)
Q1 3.	In the context of medical tourism, patients should stay at least 7 days post-operatively in the geographical location of the bariatric and metabolic surgery before travelling home.	78.9%	Grade C (R3)
Q1 4.	In the context of medical tourism, patients should stay at least 10 days post-operatively in the geographical location of the bariatric and metabolic surgery before travelling home.	45.5%	No Consensu s (R2)

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Q1 5.	In the context of medical tourism, when patients have significant complications following bariatric and metabolic surgery, they should only be cleared to travel home by their treating bariatric surgical team once these have been addressed.	96.0%	Grade A (R2)
Q1	In the context of medical tourism, when patients have significant complications following bariatric and metabolic surgery, the treating bariatric surgeon should liaise with a bariatric surgeon in the patient's home country to arrange ongoing care.	91.7%	Grade A (R2)
Q1	In the context of medical tourism, the operating bariatric surgeon should liaise with the patient's treating doctor/general practitioner in their home country to facilitate follow-up.	100.0%	Grade A (R2)
Q1 .c % ./international-jou	In the context of medical tourism, the treating bariatric surgical team should provide sufficient supply for at least 3 months of nutritional supplementation in the post-operative period.	82.5%	Grade B (R3)
Q1 9.	In the context of medical tourism, the treating bariatric surgical team should provide clear written information regarding the requirements for long-term nutritional supplementation.	100.0%	Grade A (R2)
Q2 D. SePHKav1zB	In the context of medical tourism, the bariatric surgeon should provide medical documentation, a copy of operative notes and a discharge summary to facilitate the patient's ongoing care in their home country.	100.0%	Grade A (R1)
Q2 d.	The bariatric team must use methods known to prevent harm from anaesthetic administration, whilst protecting the patient from pain.	96.8%	Grade A (R1)
Q2 2.	The bariatric team must recognise and effectively prepare for life-threatening loss of airway or respiratory function.	100.0%	Grade A (R1)
Q2 3.	The bariatric team must recognise and effectively prepare for high risk of blood loss.	96.8%	Grade A (R1)
Q2 4.	The bariatric team must avoid inducing an allergic or adverse drug reaction for which the patient is known to be at significant risk.	100.0%	Grade A (R1)
Q2 5.	The bariatric team must use consistent methods known to minimise the risk of surgical site infection.	100.0%	Grade A (R1)
Q2 6.	The bariatric team must prevent inadvertent retention of instruments and sponges in surgical wounds.	100.0%	Grade A (R1)
Q2 7.	The bariatric team must use the World Health Organisation (WHO) surgical safety checklist.	93.3%	Grade A (R1)
Q2 8.	The bariatric team must use a validated risk stratification tool to supplement clinical assessment when planning bariatric and metabolic surgery. This should then be discussed with the patient to allow for informed shared decision-making.	94.5%	Grade A (R3)

Q2 9.	The bariatric team must discuss options for postoperative pain management with patients prior to surgery.	90.3%	Grade A (R1)
Q3 0.	Patients should be screened for symptomatic gallstone disease prior to proceeding with bariatric surgery abroad.	82.%	Grade B (R3)
Q3 Ownloaded from EzybsithoutXilv	Patients with symptomatic gallstone disease should have a cholecystectomy performed prior to or at the same time as bariatric and metabolic surgery.	77.6%	Grade C (R3)

Table detailing Delphi results regarding Operative Care. 63 participants answered these statements. Round 1 n=63; Round 2 n=50; Round 3 n=58. R1=Round 1; R2=Round 2; R3=Round 3; n=number

Table 6 Advertising and Online Information

Q	Question	% Agreement	Consensu s
Q1.	Bariatric centres should not use targeted social media campaigns to identify potential patients.	85.4%	Grade B (R3)
Q2.	When discounted rates or special offers for bariatric and metabolic surgery are offered by bariatric centres, this raises concern about the quality of the care provided.	92.1%	Grade A (R3)
Q3.	Social media platforms should not allow advertising of bariatric surgery by centres that are not approved/accredited by relevant international organisations (i.e. EASO/IFSO).	92.7%	Grade A (R2)
Q4.	Bariatric centres should provide publicly available information regarding the volume and type of surgeries performed at their site.	94.8%	Grade A (R1)
Q5. -journal-of-s	Bariatric centres should provide publicly available information regarding the qualifying criteria (i.e: BMI) to undergo bariatric surgery.	94.1%	Grade A (R1)
Q6.	Bariatric centres should provide publicly available information regarding the financial cost and required payment methods for bariatric surgery at their site.	96.3%	Grade A (R2)
97.	Bariatric centres should provide publicly available information regarding the surgical procedures provided and whether these are internationally accredited procedures.	97.5%	Grade A (R1)
Q8.	Bariatric centres should provide publicly available information regarding the type, frequency and intensity of follow-up, and what health care professional this is provided by, following bariatric surgery.	99.2%	Grade A (R1)
Q9.	Bariatric centres should provide publicly available information regarding the benefits and risks of the bariatric surgeries provided at their centre.	99.1%	Grade A (R1)
Q1 0.	Bariatric centres should provide publicly available information regarding the type of accreditation their surgeons have (i.e international or national accreditation and what institution has awarded it).	94.7%	Grade A (R1)

Table detailing Delphi results regarding Provision of Care. All participants answered these statements. Round 1 n=119; Round 2 n=82; Round 3 n=94. R1=Round 1; R2=Round 2; R3=Round 3; n=number

Table 7: Patient Representative Panel Results

Q Downloade	Question	% Agreement	Consens us
Q1.	Bariatric centres must provide readily available information regarding the surgical procedures provided to patients.	98.9%	Grade A (R1)
Q2.	Clear information must be provided to patients regarding the risks and benefits of bariatric surgery abroad.	98.9%	Grade A (R1)
Q3.	Patients must be provided with clear information on whether the operating bariatric surgeon is internationally or nationally certified.	98.9%	Grade A (R1)
Q4.	Patients must be informed whether the bariatric surgery being offered is internationally recognised.	98.9%	Grade A (R1)
Q5.	Patients must be provided with all relevant clinical documentation from their bariatric surgery to allow them to have safe follow up in their home country.	98.9%	Grade A (R1)
Q6.	Patients must not be subjected to targeted social media advertising relating to bariatric surgery abroad.	69.6%	No Consensu s (R2)
Q7.	Patients must be provided with nutritional supplements or at a minimum provided with information about what nutritional supplements they require following bariatric surgery abroad.	97.7%	Grade A (R1)
Q8.	The patient's bariatric surgeon must communicate with the patients treating doctor in their home country before and after surgery.	86.2%	Grade B (R2)
Q9.	Patients must be consented through writing and discussion before undergoing bariatric surgery abroad.	95.3%	Grade A (R1)
Q10	Discussions regarding bariatric surgery must start before the patient travels abroad for surgery.	96.6%	Grade A (R1)
Q11	Patients travelling abroad for bariatric surgery must be protected from harm to their physical and mental health.	97.7%	Grade A (R1)
Q12	Patients travelling abroad for bariatric surgery must have a thorough health assessment by the team providing the care to ensure its safe for them to have surgery.	98.9%	Grade A (R1)
Q13	Patients should be very cautious when a bariatric procedure is provided at discounted rates.	94.0%	Grade A (R1)

Q14	Patients should discuss their plans for bariatric surgery abroad with a doctor in their home country before travelling for the surgery.	91.4%	Grade A (R2)
Q15	Patients and their families must have a clear way to raise concerns regarding the care they have received when undergoing bariatric surgery abroad.	97.7%	Grade A (R1)
Q16	Patients must be provided with a translator if they cannot speak the same language as their bariatric surgeon.	95.4%	Grade A (R1)
Q17 Journal V2.	Patients should seek independent advice from another patient that has undergone bariatric surgery at their planned bariatric centre, prior to surgery.	78.2%	Grade C (R2)
Q18	Patients must be provided with information about the complication rate of the bariatric surgeon performing their surgery.	96.5%	Grade A (R1)
Q19	Patients should be aware that in some instances bad reviews are removed from certain bariatric surgery clinics.	97.7%	Grade A (R1)
Q20	Patients travelling abroad for bariatric surgery should be provided with preoperative education, continuity of care and long-term follow-up.	97.7%	Grade A (R1)
Q21	All patients travelling a long distance following surgery should be aware that there is increased risk of blood clots like deep vein thrombosis and pulmonary embolism.	98.9%	Grade A (R1)
Q22 -	Before travelling abroad for bariatric surgery patients should discuss their plans with their close family and friends.	67.3%	No Consensu s (R2)
Q23	Patients who are not eligible for bariatric surgery in their home country (i.e. BMI < 30) should not travel abroad for surgery.	59.3%	No Consensu s (R2)
Q24	Patients travelling abroad for bariatric surgery should wait at least a month between booking the surgery and having the surgery.	75.0%	Grade C (R2)
Q25	Patients travelling abroad for bariatric surgery should travel with another person.	73.7%	Grade C (R2)
Q26	Bariatric surgical tourism is being driven by long waiting lists.	90.9%	Grade A (R2)

Table detailing Delphi results from the patient representative Panel. Round 1 n=88; Round 2 n=58. R1=Round 1; R2=Round 2; n=number