

大規模レジストリにおいてもTAVI後の有害イベント は低かった

GARY registry: TAVI後の院内死亡および脳卒中発現率は使用が増加してもなお

GARY registry: In-hospital death and stroke rates stay low after TAVI even as use increases

German Aortic Valve Registry (GARY) の結果、いくつかの型の経力テーテル的大動脈弁植 え込み術(TAVI)は、ガイドラインが推奨する通り主に高リスク患者において使用されており、 TAVIを用いた場合の院内死亡率は、従来の大動脈弁手術と同様に良好であるかまたはそれ よりも優れていることが示唆された。2012年European Society of Cardiology学会で発表され た1つ目の結果から、参加施設は患者選択に関して全般的に最新のガイドラインに沿っているこ とが示された:TAVI施行患者全体の85%が75歳を超えており手術に伴う死亡リスクが高いと 推定された。待機的にまたは緊急で従来の大動脈弁置換術のみを施行された患者の平均年 齢は68.3(±11.3)歳であり、ロジスティック EuroSCORE(log. ES)は8.8%(±9.7%)であった。 TAVI患者は平均して有意に高齢(大腿動脈経由81.0[±6.1]歳、心尖部経由80.3[±6.1]歳)で あり手術リスクがより高かった。院内死亡数、施術の成功率が高いこと(97%)、および弁関連 再インターベンション(0.5%未満)が低率であることから、今回のスタディの結果が良好であった ことが確認された。患者をリスク群で層別化したところ、高リスク(log. ES >20%)および超高リス ク(log. ES >30%) 患者を経大腿動脈的に治療した場合に特に有益性が認められ、死亡率は それぞれ4.7%および7.7%であった。

Full Text

The German Aortic Valve Registry (GARY) was started in July 2010 and is the only registry so far to include both transcatheter aortic valve implantation (TAVI) and conventional aortic valve replacements and repair. The intention is to deliver a complete picture of current and future practice of treating aortic valve disease and to deliver reliable data on the short and long-term outcome of different treatment strategies. This specifically includes data about quality of life before and after treatment besides numerous medical variables

Participation in the registry is on a voluntary basis, with 92 German centers (from a possible 99) actively taking part at present. The registry is planned to include patients up to 2015 and to gather a one, three and five-year follow up. It is expected that a total of about 80,000 patients will eventually be enrolled.

By July 2012 more than 26,000 patients were included, of whom 23% were TAVI patients. Current data include 15,252 patients treated in 2011 from 53 centers (when the registry was still in its run-in phase)

First results, presented today at a press conference at the ESC Congress 2012 by Professor Friedrich-Wilhelm Mohr, Clinic Director of the Leipzig Heart Centre, Germany, show that participating centers generally adhered to current guidelines for patient selection; 85% of all TAVI patients were over 75 years and had a higher calculated perioperative risk of mortality. The mean age of patients who received isolated elective and urgent conventional a average significantly older (transfemoral 81.0 [±6.1] years, transapical 80.3 [±6.1] years) and with a higher operative

The reported in-hospital mortality for elective patients was 2.1% for conventional surgery, 5.1% for the transfermoral TAVI and 7.7% for the transapical approach. These numbers confirm the good results of recent studies and reflect the growing experience in treatment and perioperative management of aortic valve disease. The high procedural success of more than 97% and the low rate of valve-related reinterventions (less than 0.5%) are also indicative of the latest improvements.

Stratification of the patients into risk groups revealed a particular benefit for people with high (log. ES >20%) and very high (log. ES >30%) risk when treated transferorally, with mortality rates of 4.7% and 7.7%, respectively.

Consistent with earlier observations, the overall number of cerebrovascular events during hospital stay was low in the conventionally treated group (2.2%) and somewhat higher for TAVI patients (transfemoral 3.7%, transapical 3.5%). The rate of vascular complications was reported as 11.9% for the transfemoral, 2.5% for the transapical and 1.0% for the conventional group. However, the number of patients who needed more than two units of packed red blood cells was 29.4% in conventional surgery and 25.4% with the transapical, but only 11.5% with the transfermoral approach

The number of postoperatively new pacemaker implants was 23.7% in the transfemoral group - significantly higher than in the transapical (9.9%) and in the conventional surgical groups (4.6%)

Commenting on the results, Professor Mohr said: "From these first data it can be concluded that the patients in the participating German centers were treated according to the guidelines, which led to low in-hospital mortality in all groups as compared to former surveys. Patients in high risk groups benefit at least as much from TAVI procedures as from conventional surgery, particularly when performed transfemorally

"Post-procedural rates of cerebrovascular events, vascular complications, renal failure and blood transfusions have decreased but need further attention. The high number of patients in the register will allow for thorough risk factor analysis for these complications. Additional long-term follow-up is to evaluate the high number of pacemaker implants as well as residual aortic regurgitation in the TAVI group. The German aortic valve registry was especially designed to make an important contribution to the ongoing discussion on these subjects. With the help of subgroup analyses and stratification for risk factors, we also expect to detect which treatment is best for which patient."

GARY was inaugurated by the German Society of Cardiology and the German Society for Thoracic and Cardiovascular Surgery because of the remarkable growing numbers of TAVI over the past few years. It is supported by the German Heart Foundation and receives unrestricted grants from the heart valve manufacturing industry,

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