Coronary-subclavian steal syndrome in a hemodialysis patient with ipsilateral subclavian artery occlusion and contralateral vertebral artery stenosis “Case Report”

To the Editor,

I read the article written by Sağ et al. (1) entitled “Coronary-subclavian steal syndrome in a hemodialysis patient with ipsilateral subclavian artery occlusion and contralateral vertebral artery stenosis “Case Report”” published in Anatol J Cardiol 2016; 16: 542-6 with great interest.

It is well known that the use of left internal thoracic artery (LITA) for coronary artery revascularization has been associated with better long-term patency and patient survival than the use of a saphenous venous graft (2). On the other hand, patients with end-stage renal failure (ESRF) are under increased risk of coronary artery disease (3). Unfortunately, patients who need dialysis have been confronted with coronary-subclavian steal syndrome owing to left subclavian artery stenosis or ipsilateral upper extremity arterio-venous fistula (AVF) that gives rise to a low resistance vascular bed (4). Moreover, it is reported that the ipsilateral location of coronary artery bypass with the use of LITA and upper extremity AVF may be associated with an increased risk of cardiac events (5).

In the light of the points mentioned above, would you suggest the three results listed below?

1. In patients with ESRF having upper extremity AVF, ipsilateral LITA should not be used for coronary artery revascularization.
2. Ipsilateral upper extremity should be avoided for AVF if ipsilateral LITA is used for coronary artery revascularization.
3. If there is an obligation regarding the use of ipsilateral LITA, we should use ipsilateral LITA as a free graft rather than in situ.

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References

Transcatheter aortic valve implantation in transapical access

To the Editor,

We congratulate Doğan et al. (1) on their successful transcatheter aortic valve implantation (TAVI) entitled "Transcatheter aortic valve implantation through extra-anatomic iliac graft in a patient with unsuitable iliofemoral and subclavian anatomy," published in Anatol J Cardiol 2016;16:813-4. The authors report that they conducted the procedure through the synthetic graft, which they anastomosed to the left common iliac artery of the patient as the femoral and subclavian access routes were diseased. They explained why they did not conduct the procedure transapically by referring to the studies of Fröhlich et al. (2). It is reported in this study too that transapical TAVI has higher mortality rates than other methods. However, we are of the opinion that for this patient, the TAVI procedure should be conducted transapically rather than through a synthetic graft in spite of the opposite hypothesis of Doğan et al. (1). There is no consensus on the hypothesis that a transapical attempt is more reliable than a transfemoral attempt. A lot of studies indicate that transapical TAVI is at least as reliable as other access routes (3–5). In one of these studies, it is even stated that the transapical approach is better than the transfemoral approach in terms of postoperative paravalvular leakage (4). In another study, the transapical approach has been found to offer a better manoeuvre ability than the transfemoral approach during placement (5).

We are of the opinion that another reason why Doğan et al. (1) preferred the transapical route in this patient can be that the patient had a previous cardiac operation. However, the transapical attempt could have been conducted with a minimum invasive thoracotomy in this case as well. The patient had a general anesthesia while an iliac graft was being transposed. Moreover, even though the authors do not mention it completely, it appears that the patient’s TAVI procedure was conducted in two different sessions, with at least one of them being under anesthesia, because picture 2 shared by the authors indicates a healed incision scar on the patient. This means that the patient underwent anesthesia stress twice, whereas this procedure could have been conducted in a single session in a transapical attempt.

However, we are of the opinion that the fact that an access graft for TAVI was ligatured naturally after the operation and left in the body was another handicap for this patient. This is because it is probable that a rudimentary graft in the abdomen could be the cause of infection. We think and believe for all these reasons that even if the conventional transfemoral approach could not be conducted, the transapical route should have been preferred instead of an iliac arterial graft.

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DOI:10.14744/AnatolJCardiol.2017.7607

Author’s Reply

To the Editor,

We thank the authors for their interest in our study entitled “Transcatheter aortic valve implantation through extra-anatomic iliac graft in a patient with unsuitable iliofemoral and subclavian anatomy” published in Anatol J Cardiol 2016; 16: 813-4 (1).

Firstly, as the authors stated, we did not choose the transapical approach based on the study of Fröhlich et al. (2). There are also other studies supporting this decision. The transfemoral route seems to be associated with a significantly higher survival than the transapical route (3, 4). However, some studies indicate that the access...