

4. two testicular arteries penetrating the testis ,one arising from the aorta and other from the renal artery(type D)⁽¹³⁾

Many descriptions of abnormal origin of left testicular artery are made, Shinohara et al describes the high origin from aorta, higher to the origin of left inferior phrenic artery ⁽¹⁴⁾ or higher to the level of L2 vertebra in 5-20%, or it may be originated from renal arteries, either from principle left renal artery or from accessory renal artery, as well in 5-6% ^(خطأ! الإشارة المرجعية غير معرفة. خطأ! الإشارة المرجعية غير معرفة. 15)

The accessory renal artery has been known since the early days of human dissection and autopsy. It has been reported that it occurs in 26% of individuals and originates mostly directly from aorta ^(16, 17).

Rarely, the accessory renal artery arises from celiac or superior mesenteric arteries near the aortic bifurcation or from common iliac arteries ^(خطأ! الإشارة المرجعية غير معرفة.). In this study, the left testicular artery was found to be originated from accessory renal artery and we define it as aberrant testicular artery.

The anomalous origin of testicular artery from accessory renal vessel has important clinical implications.

Risk of renal ischemia, lower segment infarction due to injury of anomalous testicular artery during urological or oncological surgical intervention and renal transplantation. if the surgeon is not aware of such anatomical variation. Surgeon may face unexplained bleeding from the jeopardized anomalous testicular artery

Such variations in the testicular and renal arteries have clinical and surgical significance in regard to their influence on the blood flow to the kidney and testis and hemorrhagic complications following retroperitoneal operations ^(18, 19)

In addition to that ,another risk of left testicular atrophy or infarction due to unexpected loss of blood supply because of erroneous ligation or division of renal artery and/or testicular artery is clearly hazardous to result in infarction of testicle since the main blood supply of testes comes from testicular artery although cremasteric artery and differential artery may share in blood supply ^(خطأ! الإشارة المرجعية غير معرفة. خطأ! الإشارة المرجعية غير معرفة. 20).

Due to the emergence of such critical vascular anomalies, it is widely advisable to do angiographic examination of renal arteries prior to operation on the kidney,transplantation or nephrectomy to detect any such variation of testicular artery origin to preserve the blood supply to the testis ^(خطأ! الإشارة المرجعية غير معرفة.).

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