

Assessment of Coronary flow Reserve in PCI

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【Purpose】 Application for PTCA in patients with significant coronary artery stenosis without identified angina pectoris (AP) and restenosis after PTCA can be clarified by measurements of coronary flow reserve(CFR).

【Methods】 1.CFR was measured in patients with coronary artery stenosis to clarify application for PTCA.2.CFR was measured before, immediately after and 3months after PTCA in patient with AP.

【Results】 60 % of coronary artery stenosis is in accordance with 2.1 of CFR and 80 % of coronary artery stenosis is in accordance with 1.7 of CFR. Almost patient with clinical AP has 80 % over of coronary artery stenosis,and below 1.7 of CFR. Less than 1.3 of CFR before PTCA and less than 1.8 immediately after PTCA was important point of restenosis.

【Conclusion】In patients with significant coronary artery stenosis without identified angina pectoris (AP), PTCA should be performed in patients with below 1.7 of CFR. Stent should be used in patients with 1.7 of CFR. Less than 1.3 of CFR before PTCA and less than 1.8 immediately after PTCA.