

# **CORONARY ANGIOGRAPHY AND PCI IN AUSTRIA 2002**

**V.Mühlberger\*\*), D.Glogar\*), W.Klein\*), F.Leisch\*), J.Mlczoch \*), P.Probst\*),  
G.Raudaschl\*\*\*), H.Sochor\*), O.Pachinger\*\*)**

**Österreichische Kardiologische Gesellschaft\*), Klinische Abteilung für Kardiologie\*\*)  
und Institut für Biostatistik und Dokumentation\*\*\*) der Universität Innsbruck.**

**tit.ao.Univ.Prof.Dr.Volker Mühlberger**

**Universitätsklinik für Innere Medizin**

**Klinische Abteilung für Kardiologie, Anichstr.35**

**A-6020 Innsbruck, ( 0034/+512/504/2790; FAX -/2767)**

**E-mail: [volker.muehlberger@uibk.ac.at](mailto:volker.muehlberger@uibk.ac.at)**

**tit.ao.Univ.Prof.Dr.Peter Probst**

**tit.ao.Univ.Prof.Dr.Dietmar Glogar**

**tit.ao.Univ.Prof.Dr.Heinz Sochor**

**Universitätsklinik für Innere Medizin, Kardiologie**

**Währinger Gürtel 18-20; A-1090 Wien**

**ao.Univ.Prof.Dr.Werner Klein**

**Universitätsklinik für Innere Medizin,**

**Leiter der Abteilung für Kardiologie,**

**Auenbruggerplatz 30; A-8036 Graz**

**Prim.Doiz.Dr.Franz Leisch**

**Leiter der I.Med.Abt. mit Kardiologie,**

**Krankenhausgasse 9; A-4020 Linz**

**tit.ao.Univ.Prof.Dr.Johannes Mlczoch**

**Leiter der 4.Med.Abt.mit Kardiologie,**

**Wolkersbergenstr. 1; A-1130 Wien**

**Gerhard Raudaschl,**

**Institut für Biostatik und Dokumentation,**

**der Universität Innsbruck,**

**Schöpfstr. 41/1; A-6020 Innsbruck**

**o.Univ.Prof.Dr.O.Pachinger**

**Universitätsklinik für Innere Medizin**

**Leiter der Klinischen Abteilung für Kardiologie,**

**Anichstr.35; A-6020 Innsbruck**

## **ABSTRACT: CORONARY ANGIOGRAPHY AND PCI IN AUSTRIA 2002**

41.051 diagnostic coronary angiographies (CA) and 13.581 percutaneous coronary Interventions (PCI's) were done in Austria during the year 2002. There are 31 centers for diagnostic studies in adults, 29 of them perform PCI as well, 12 centers perform a 24-hours on duty service and nine of 29 centers have surgical "back up" in the same house.

There is an increase of 6 % concerning coronary angiography and of 12.7 % in PCI compared to 2001. The increase is flatter than in the year before. 90 % of PCI's were done during the diagnostic study (CA), direct PCI for ongoing infarction was performed in 11.7 %. In 11.455 cases stents ( 84 % of the PCI cases) were implanted.

Overall Mortality after PCI was reported in 0.74 %, in elective PCI in 0.26% (31/11.990) and in PCI during myocardial infarction in 4.4%, where 26/1.327 (2.0%) of the patients died having an infarction without, and 44 of 264 (17 %) patients having an infarction with shock before PCI. Emergency bypass surgery rate after PCI was 0,12 % and 2 out of 17 patients died after emergency surgery due to failed PCI.

Case-fatality reported by record-linkage with the Austrian state national vital statistics death file showed 2.5 years after the year 1998 a mortality in 6 centers of 744 deaths out of 9.588 patients (8.1%), including 138 deaths out of 1.991 PCI-patients (6.9%) and 632 deaths out of 7.580 patients (8.3%) after diagnostic coronary angiography (CA) without PCI.

Drug eluting stents (DES) were used in 5.4% of all stents during the first year of experience in Austria in 2002. Puncture site closing devices reached as much as 50% and brachytherapy 1.2% of all PCI's. The increase in the usage of IIb/IIIa platelet antagonists during PCI stopped since two years and the rate is now 18% of all PCI's. Brachial punctures reached not more than 2.5% of PCI in 2002.

The Austrian Capital Vienna hosts 20,6% of the 8.06 million Austrian inhabitants and is accountable for 21% of the CA, 25% of PCI's and stents, 30% of the cath-rooms, 40% of the PCI-physicians and 40% of all Austrian PCI's during myocardial infarction.

International comparison shows Austria under the top nations with 5.093 CA and 1.685 PCI's per one million inhabitants. This is comparable to Switzerland and less than Germany concerning CA. In a ranking concerning PCI Austria would show up as number 15 out of 16 German states, between Schleswig-Holstein and Thüringen.

(INTERNET-ADDRESS): <http://gin.uibk.ac.at/iik>

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