



Results of a multicenter italian registry of real world CAS with the
C-Guard mesh covered stent: the **IRONGUARD 2 Study**

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Conflict of Interest



I have nothing to disclose



Thirty-day results from prospective multi-specialty evaluation of carotid artery stenting using the CGuard MicroNet-covered Embolic Prevention System in real-world multicentre clinical practice: the IRON-Guard study

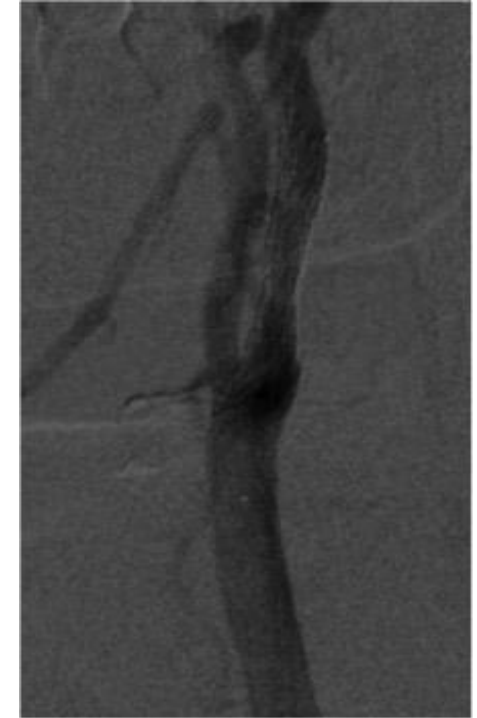


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200 enrolled patients
Technical Success: 100%

MACCE=0

5 minor strokes
2 TIAs



@ 1 Year IRONGUARD



CGUARD™
Carotid Embolic Prevention System

InspireMD

No major neurological adverse event

No stent thrombosis

No ECA occlusion

EuroIntervention. 2018 In press



Enrollment

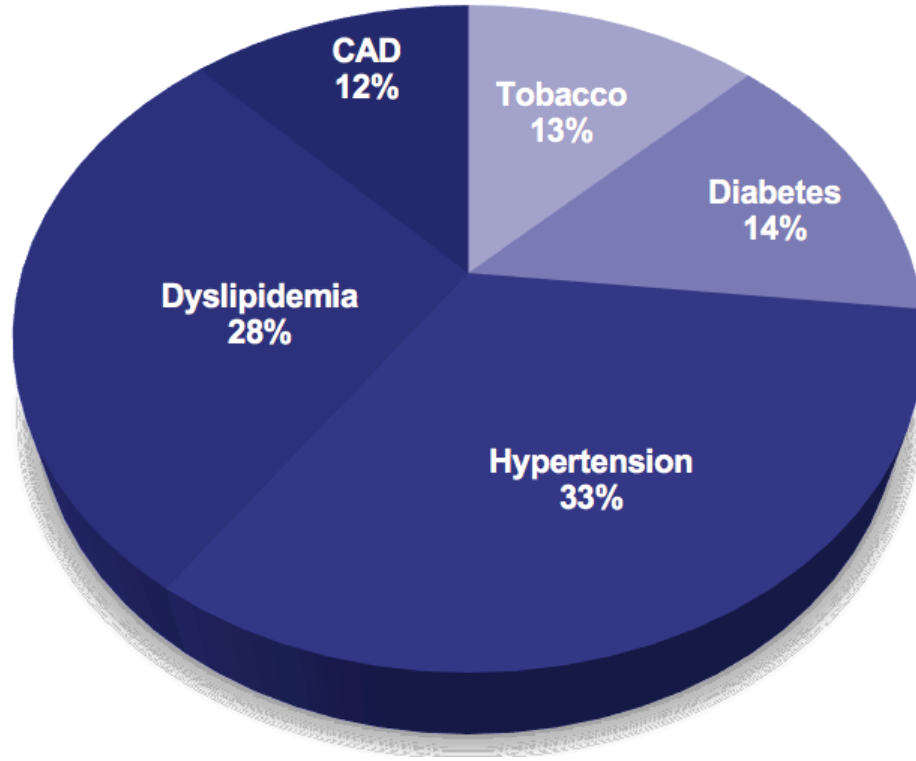


So we decided to continue our experience with a **NEW** registry:

Up to August 2018,
342 Patients
in 15 enrolling Centers



Demographics



Age: 72.5 ± 7.86 yy (48-97)

Male Gender: 245 (71.22%)

Tobacco Abuse: 112 (32,55%)

Diabetes: 125 (36.33%)

Hypertension: 291 (84,59%)

Dyslipidemia: 251 (72.96%)

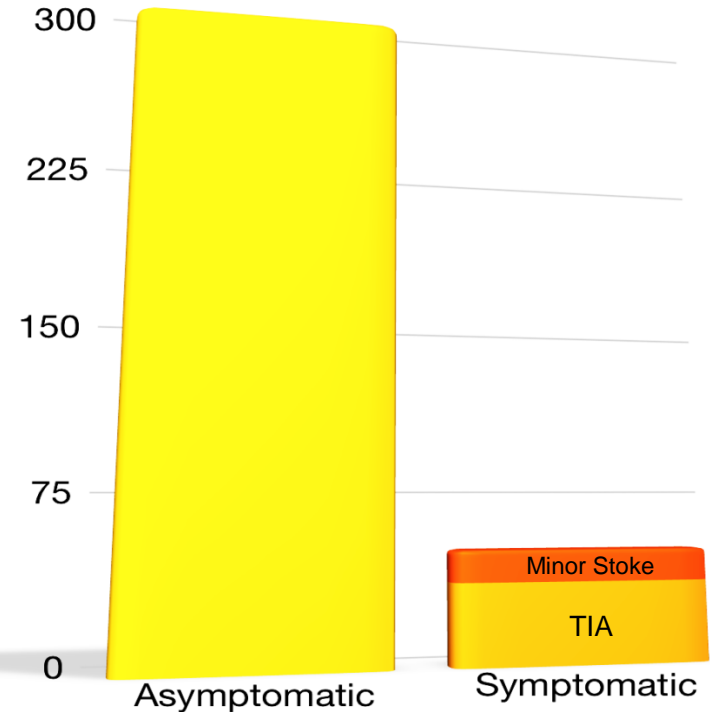
CAD: 107 (31.10%)

Symptoms

50 out of 342 patients
(14.53%) were
symptomatic

36 TIAs (72%)

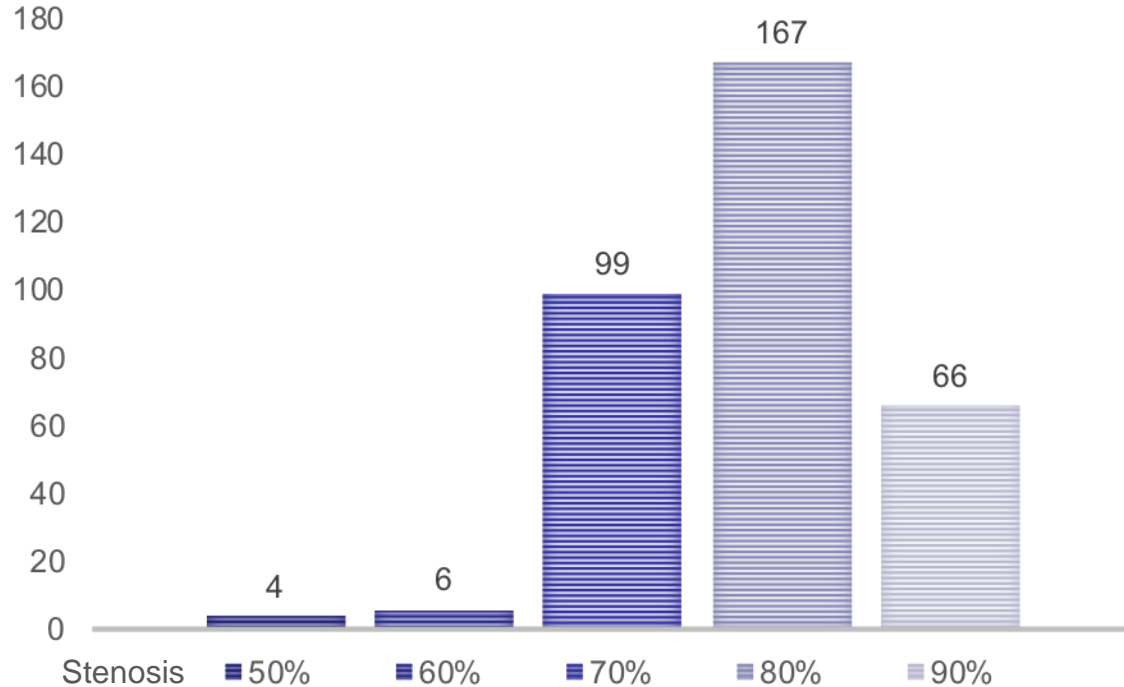
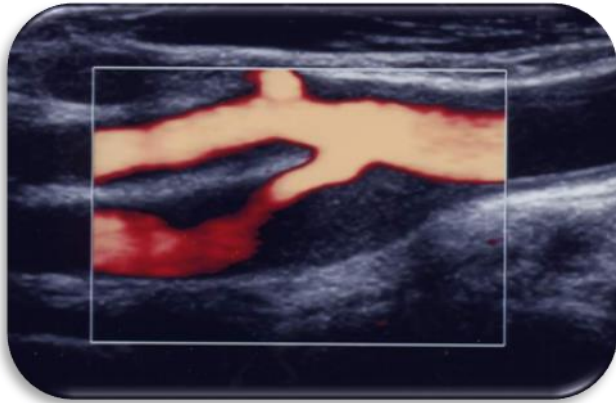
14 Minor Strokes (28%)



Target Lesions

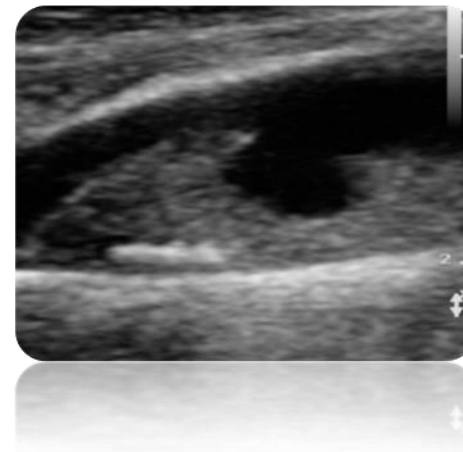
Stenosis

$84.97 \pm 6.51\%$
(50-99)



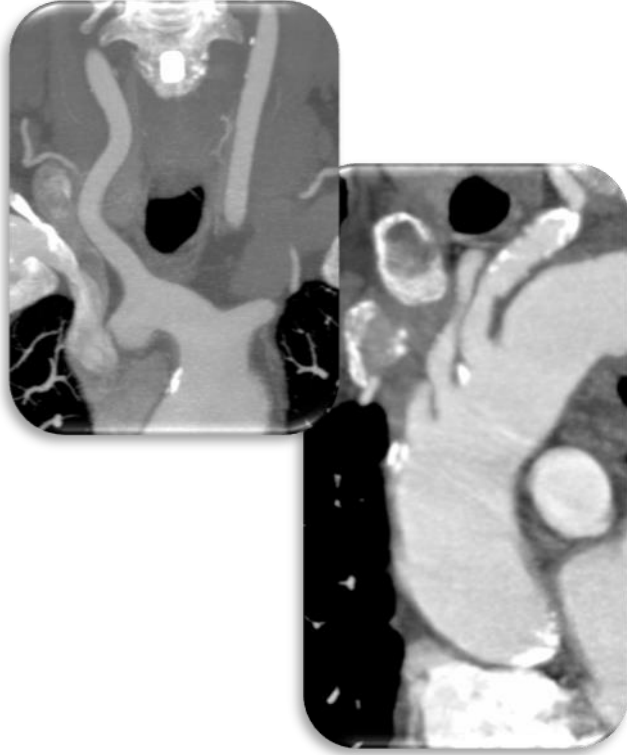
Plaques Composition

Hyperechoic	102 (29.65%)
Hypoechoic	77 (22.38%)
Isoechoic	45 (13.08%)
Disomogeneous	80 (23.25%)
Ulcerated	12 (4.09%)
Thin fibrous Cap	5 (1.45%)
Post-CEA restenosis	21 (6.10%)



97 (28.79%) presented an high-risk carotid plaque

Arch Anatomies



Type I 135 (39.47%)

Type II 161 (47.07%)

Type III 12 (3.51%)

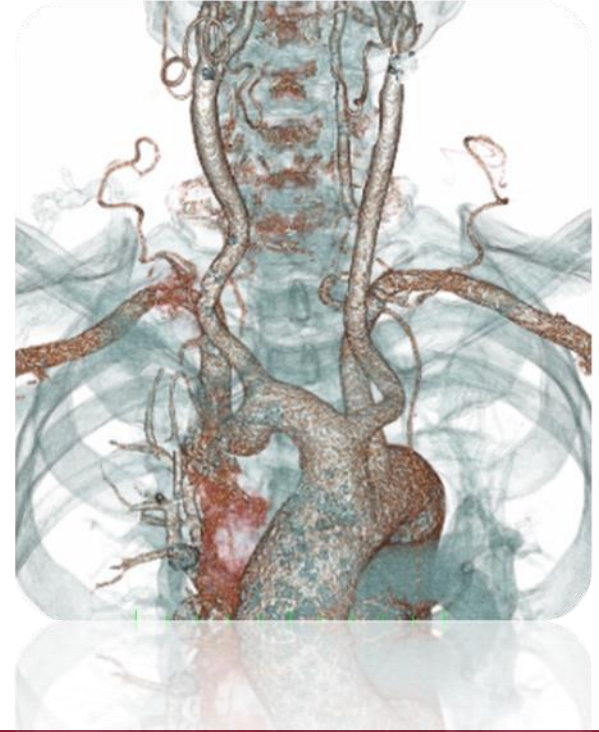
Bovine 34 (6.10%)

**All aortic arch morphologies
were enrolled in the study**

Arch Anatomies

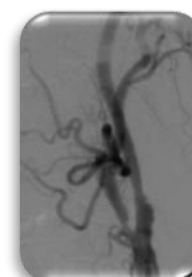
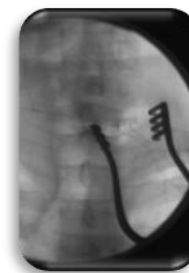
Thrombosis	15 (4.38%)
Calcifications	89 (26.02%)
Moderate/Severe Tortuosity	120 (35%)

**1/3 of enrolled patients
presented significant supra-
aortic vessels tortuosity**



Procedural Details

Almost in all cases a **transfemoral approach** was chosen (**98.24%**), while also brachial (0.88%) and transcervical approaches (0.88%) were reported



Procedural Details



Embolic Protection Device was adopted in **99.70%** of patients.
Proximal occlusion device (Mo.Ma.) in 50 (14.62%), and distal filter in 291 (85.08%)

Procedural Details

Pre-dilatation 89 (26.02%)

Post-dilatation 286 (83.26%)

Atropine 216 (63.15%)

Contrast amount 61.78 ± 37.72 ml



Post-Procedural (24h) Results

5 TIAs

1 Minor Strokes

1.75%

No AMI

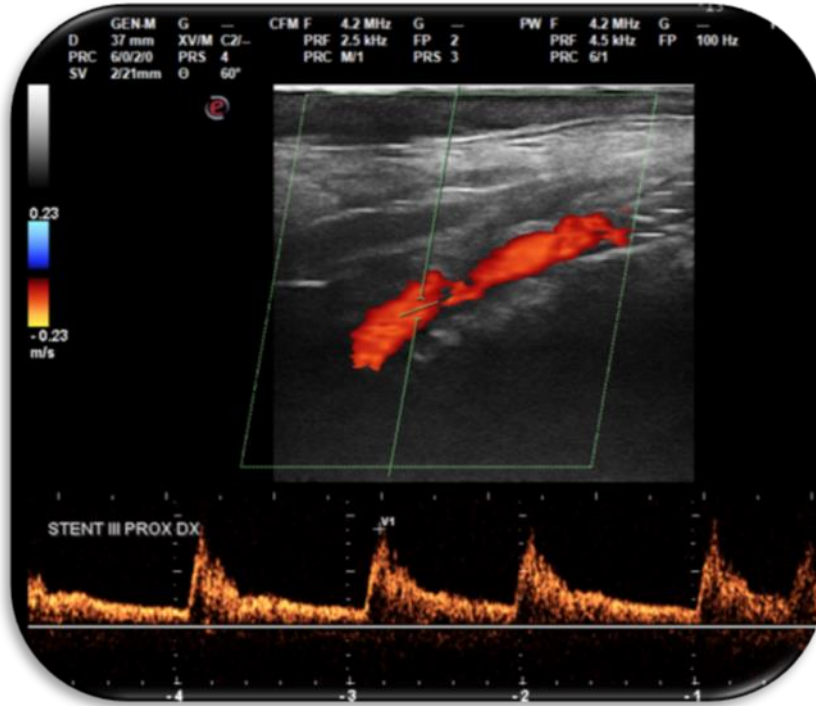
No Death

2 ECA occlusions

4 Severe Bradycardias



@ 1 Month Results



Data available on 255 Pts

2 additional neurological events

(1 TIA, 1 Minor Stroke)

No AMI

No Death

NO STENT THROMBOSIS

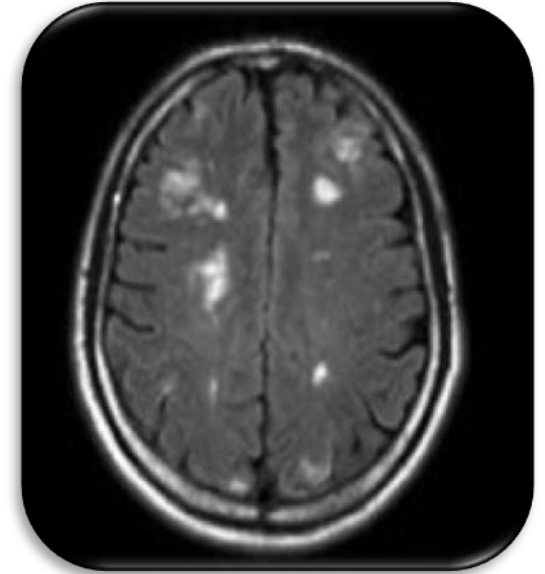
ACE patency 97.60%

@ 1 Month cumulative Results

Minor Stroke rate 0.58% (n=2)

TIA rate 1.72% (n=6)

Cumulative neurological event rate **2.33%**



@ 1 Year Results

Data available on 57 Pts

1 new MACE: IMA (fatal), no new neurological event

2 Deaths: AMI

Suicide

ACE patency 96.49%



Conclusions

Ongoing analysis!!!

We are still recruiting patients...



Thanks to all

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Laura Capoccia

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Pasqualino Sirignano

*Thank
you*

