



MITRA SWISS newsletter

N. 2 - May 2014

Dear MitraSwiss participants

We are pleased to send you the second SWISS MitraClip Registry Newsletter, which includes an update (May 2014) on the first 265 patients included into the Registry since September 2011. Eight centres are currently performing MitraClip interventions (Universitätsspital Zürich, Kantonsspital Luzern, Cardiocentro Ticino, Universitätsspital Basel, Inselspital Bern, HerzKlinik Hirslanden Zürich, Klinik Im Park Zürich, Kantonsspital Aarau), and two are on the “waiting list” for the take-off (HUG Genève, CHUV Lausanne), while already performing MitraClip interventions.

All of them agreed to provide the Registry with their data.

As you all know, the MitraClip has been recognized by the Federal Office of Public Health for mandatory reimbursement (inoperable patients with severe mitral regurgitation with predicted mortality 10-15% and suitable anatomy), one of the binding conditions being the participation to the Registry.

Moreover, since January 2014 the MitraClip is officially on the DRG list (CHOP Code 35.96.22, DRG Code F19A, cost weight 5.214; from 2015 the DRG code will be F98Z, cost weight 6.216).

A preliminary analysis on the 265 patients included up to May 2014 into the Swiss Registry is substantially consistent with what we observed in our first Newsletter (May 2013): 55% of the patients underwent MitraClip intervention because of functional mitral regurgitation, more than 60% were treated with more than one clip with a consistent acute procedural success (higher than 90%) and a very low periprocedural mortality (0.4%).

On behalf of the MitraSwiss staff, we would like to thank all the participating centres for their substantial contribution. A special thank goes to our study monitoring staff, Manuela Mombelli and Simona Maspoli, for their excellent work.

We remind you that the Registry, led by Cardiocentro Ticino, is supported by an unrestricted grant of Abbott and by an additional support from the Working Group PCI and Acute Coronary Syndromes.

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Publications 2014

Two-year outcomes after percutaneous mitral valve repair with the MitraClip system: durability of the procedure and predictors of outcome, Stefan Toggweiler, Michel Zuber, Daniel Sürder, Patric Biaggi, Christine Gstrein, Tiziano Moccetti, Elena Pasotti, Oliver Gaemperli, Francesco Faletra, Iveta Petrova-Slater, Jürg Grünenfelder, Peiman Jamshidi, Roberto Corti, Giovanni Pedrazzini, Thomas F. Lüscher and Paul Erne - *Open Heart* 2014;1:doi:10.1136/openhrt-2014-000056

Ongoing analysis

- A prospective observational analysis of patients treated with percutaneous mitral valve repair, using the MitraClip system in Switzerland - Insights from the MitraSwiss registry, submitted to TCT 2014
- Pulmonary hypertension as outcome predictor in patients undergoing MitraClip repair by Lutz Büllsfeld, Bern

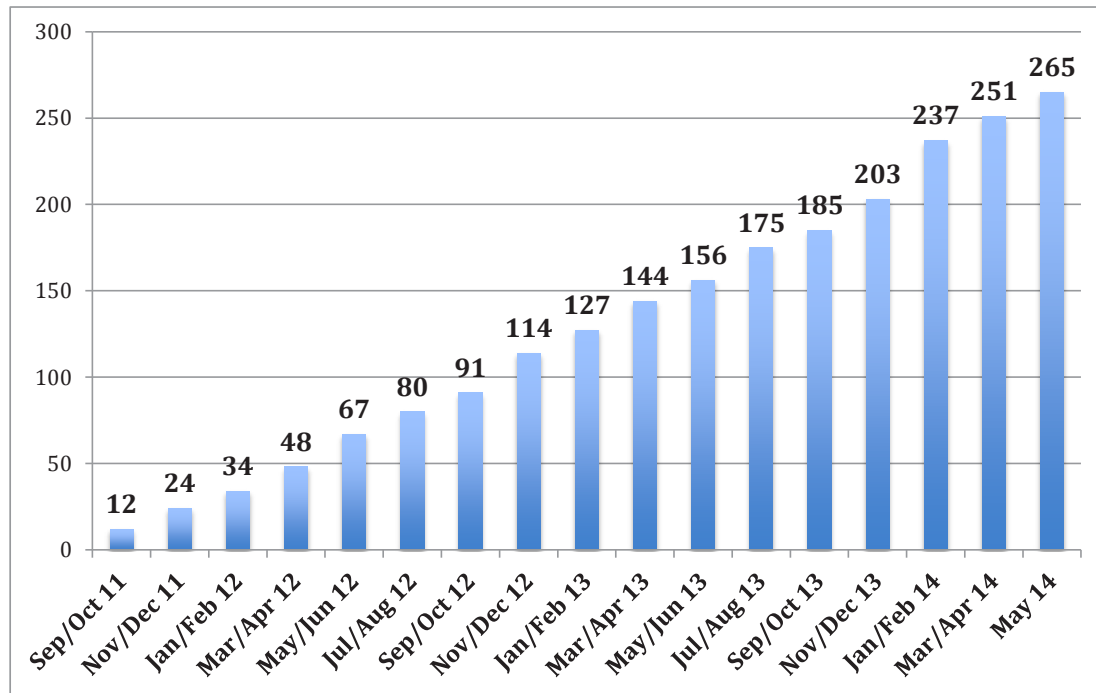
PRELIMINARY RESULTS

The chart below shows a summary of the current recruitment status of each centre as well as the monthly enrolment.

Site	Status	1 st patient	Recruited	Monthly average
Geneva (HUG)	Not yet including	–	–	–
Lausanne (CHUV)	Not yet including	–	–	–
Aarau (KS)	Including	05/2014	1	1.00
Basel University Hospital	Including	02/2012	30	1.11
Inselspital Bern	Including	12/2012	32	1.88
Cardiocentro Lugano	Including	09/2011	29	0.88
Lucerne (KS)	Including	11/2011	29	0.93
HerzKlinik Zürich	Including	11/2013	14	2.00
Klinik im Park Zürich	Including	11/2012	39	2.05
University Hospital Zürich	Including	09/2011	91	2.84
Total patients		09/2011	265	8.28

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Baseline characteristics of the 121 patients included so far, as well as periprocedural results and safety, are summarized in the tables below:

Patients Characteristics (n = 265)			
Age - years; mean (SD)	76.6 (9.7)		
BMI - kg/m ² ; mean (SD)	24.9 (4.2)		
Log. Euro Score (%); mean (SD)	13.1 (15.4)		
LVEF (mean; SD)	45.0 (17.4)	NYHA class	
Chronic / intermittent AF - %	57.5	I / II	29.9
Prev. PM or ICD implantation - %	26.9	III	58.5
CRT - %	17.1	IV	11.6
Prev. heart failure - %	37.6	Mitral valve - grade of mitral regurgitation at baseline - %	
Gender (male) - %	64.4	Moderate	1.5
Hypertension - %	74.5	Moderate to severe	15.1
Hyperlipidemia - %	52.8	Severe	83.4
Diabetes - %	23.8	MR etiology - %	
Coronary artery disease - %	56.1	Functional / functional ischemic	55.0
Previous MI - %	29.5	Degenerative	38.7
Previous PCI - %	40.1	Mixed	6.3
Previous CABG - %	23.1		
Previous valve surgery - %	11.7		

**Periprocedural Data (n = 265)****No implanted clips (%)**

Clip implantation not done / possible	1.2
1 clip	38
2 clips	52
3 clips	8
4 clips	1.2

Acute procedural success (%)

Overall	91
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Periprocedural mortality / morbidity (%)

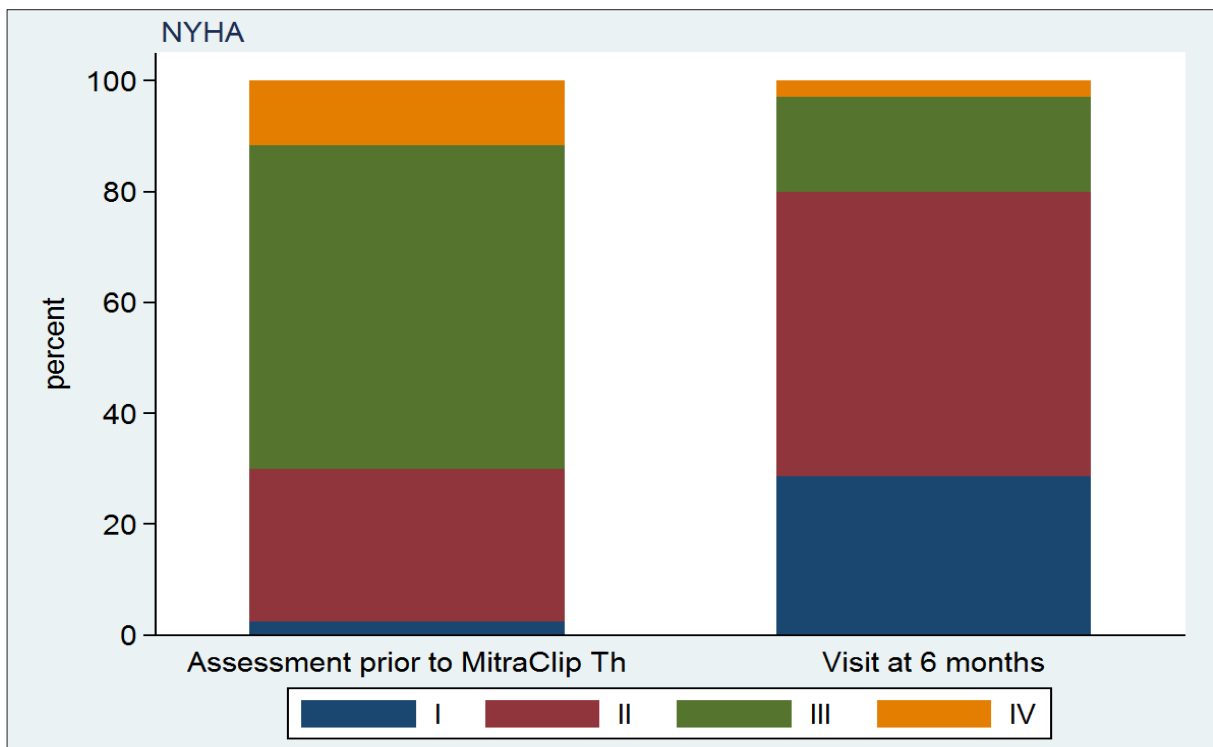
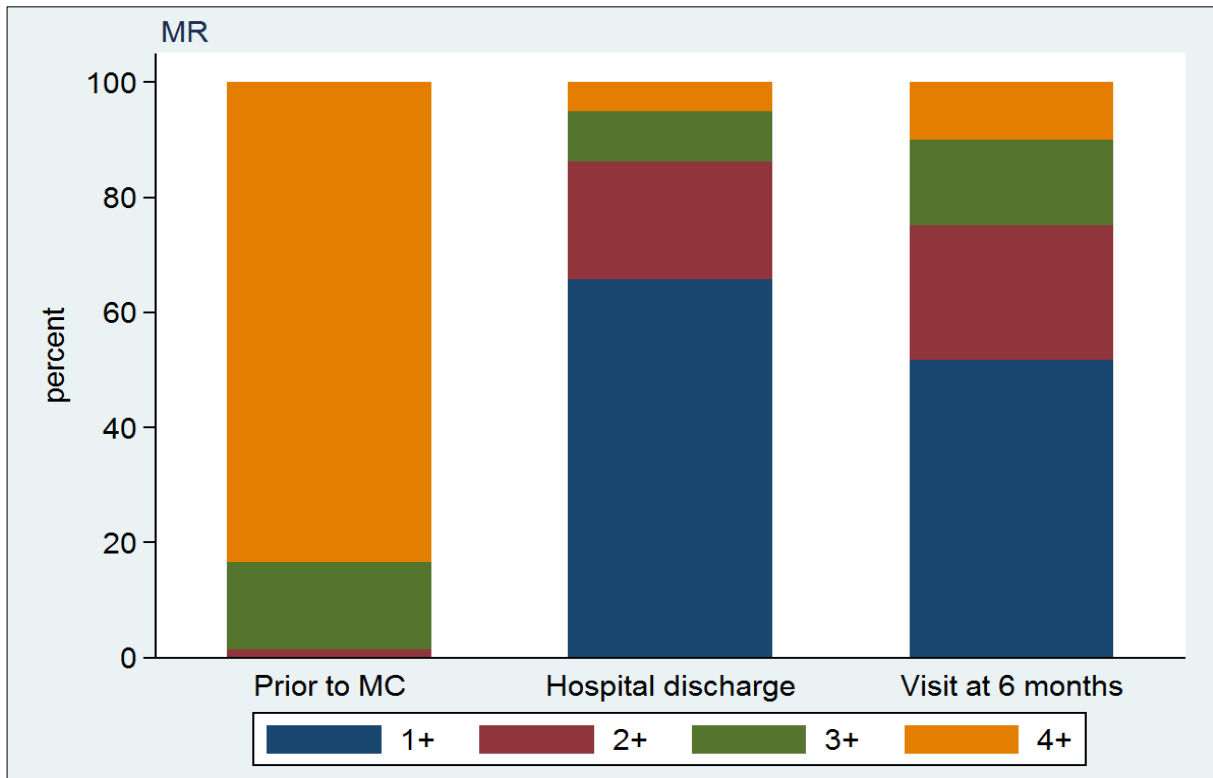
Periprocedural mortality	0.4
Artificial respiration > 48h	0.4
LVAD	0
Cardiac surgery within 30 days	0
Bleeding requiring transfusion	2
Complication due to transseptal puncture	1.6
Cerebrovascular infarction	0.4

Hospital stay - days

ICU/CCU stay – median (IQR)	1.0 (1.0)
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On behalf of the Swiss MitraClip Registry investigators:

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MitraSwiss Steering Committee:

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Prof. Roberto Corti

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MitraSwiss Clinical Event Committee:

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PD Dr. Oliver Gaemperli

Dr. Daniel Sürder

MitraSwiss Statistician:

Dr. Catherine Klersy

MitraSwiss Responsible Database:

Dr. Moreno Curti

Reference Physicians and Nurses for the Participating Centres:

Universitätsspital Zürich: PD Dr. med. Oliver Gaemperli; Mrs. Christine Hager;
Mrs. Ulrike Sängler

Cardiocentro Ticino: Dr. med. Daniel Sürder, Dr. med Iveta Petrova;
Mrs. Manuela Mombelli

Kantonsspital Luzern: Dr. med. Stefan Toggweiler; Mrs. Gabriele Krieg

Kantonsspital Basel: PD Dr. med. Raban Jeger; Mrs. Sandra Wirz

Inselspital Bern: PD Dr. med. Lutz Büllsfeld; Mrs. Christa Schönenberger

Klinik Im Park, Zürich: Prof. Dr. med. Barbara Naegeli; Mrs. Eva Tanner

Herzkllinik Hirslanden Zürich: Prof. Dr. Roberto Corti; Mrs. Ines Bühler; Mrs. Verena Reichl

Kantonsspital Aarau: Dr. A. Vuilliomenet; Mrs. Sandra Popp

Next Meeting:

During SGK Meeting 2015

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