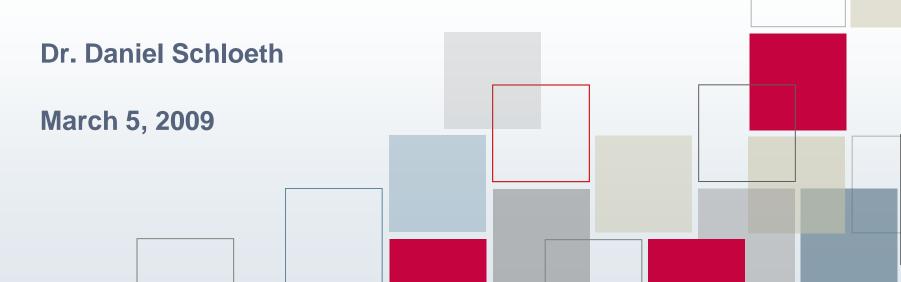


The need of IT in medicine – practical issues of online data entry and data analysis



SPSS at a glance

Leadership

- Market leader in Predictive Analytics
- Focus on online & offline customer data acquisition and analysis
- Stability
 - Founded in 1968
 - 40+ year heritage in analytic technologies
- Proven track record
 - 250,000+ customer sites worldwide
 - More than 4 Mill. users
 - NASDAQ: SPSS

Some Swiss Customers SPSS **Retail & Transport** Other **Finance Telecom** IEM swisscom COOP CREDIT SUISSE STATISTISCHES AMT DES KANTONS ZÜRICH BENCHMARKING-TEAM C MANOR orange **WBS Sunrise** Nespresso Rmparis.ch Zürcher Kantonalbank ЭС SBB CFF FFS Hene Bürcher Beitung cablecom **Healthcare** Roche unique 🔊 Bâloise Acute Myocardial Infarction in MEDECINS SANS FRONTIERES Switzerland RZTE OHNE GRENZEN DIE POST HELSANA **Bristol-Myers Squibb**

Swiss Customers in the Healthcare Industry

- Helsana, Sanitas, CSS, Visana, Suva…
- Santésuisse, FMH, H+ Swiss Hospitals...
- BAG
- Cantonal Hospitals Genève, Lausanne, Aarau, Bern, Basel, Zürich, Luzern, Schaffhausen, Winterthur...

- Hirslanden, Schulthess Klinik, Paraplegikerzentrum Nottwil, MediX, Claraspital...
- Roche, BMS, Ciba, Novartis, DSM, Spirig, Straumann, Stryker, Kieser...
- WHO, Red Cross, Médecins Sans Frontières
- Arud, Institutes of Social und Preventive Medicine Bern, Zürich...
- AMIS Plus, Verein Outcome, AO Forschungsinstitut, Organisme Médico-Social Vaudois…

SPSS realized for AMIS Data Entry and Online Analysis



🗿 AMIS Plus, Acute I	Myocardial Infarction in Switzerland - Microsoft Internet Explorer
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News and Events	AMIS Plus - National Registry of Acute Myocardial Infarction in Switzerland
Steering Committee	A Acute M Myocardial
Data Center	
Data Entry	S Switzerland
Documents	The AMIC Dive national registry collects and evolution date on national with courts correspond supdrame in
AMIS Documents	The AMIS Plus national registry collects and analyzes data on patients with acute coronary syndrome in Switzerland in the pre-admission and hospital phases. Emphasis is placed on the evaluation of risk factors,
Newsletters	diagnostics, urgent therapy strategies, and treatment of acute coronary syndrome (acute myocardial infarction,
Publications	unstable angina and minimal necrosis). The AMIS Plus data gathered are important for assessing guidelines, improving compliance with guidelines in clinical practice, investigating patient groups not extensively studied in
Online Analysis	large randomized trials, quality assurance as well as the continuous improvement of therapeutic strategies based
Sponsors and Donators	on a large data base.
Participants	
Links	
Contact	

🕝 Internet

>Two ways to speed up the analysis of new cases

Online Data Entry

- Allows the participating hospitals to enter new cases as soon as they have the data
- Faster analysis for the AMIS data center
- Better data quality
- Online Analysis
 - Allows the participating hospitals immediate feedback about own cases
 - Faster comparison with data of all other hospitals

Online Data Entry – with mrInterview

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 ST-segment elevations Q-waves ST-segment depressions T-wave changes Left bundle branch block Right bundle branch block No changes/normal Other 			
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🙆 Fertig	et		

SPSS

Survey Manager

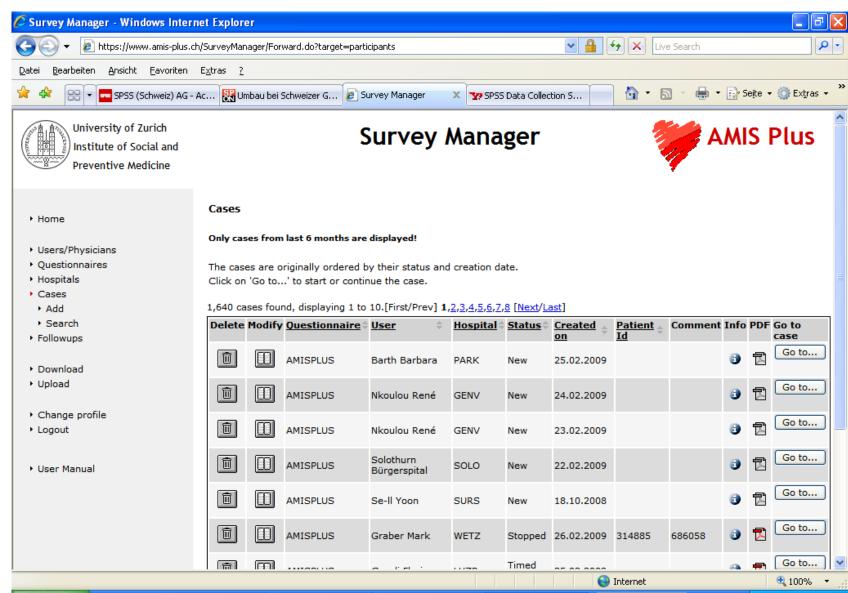
- **SPSS**
- Under "Cases" you will see a list of all your cases entered within the last 6 months.
- Complete as well as incomplete cases can be viewed and printed out as PDF documents.
- By clicking on the "Info" button (i-button) important information about the patient can be seen, such as patient ID number, gender, date of birth.
- By clicking on the "Go to..." button you can continue working on this case where you left off.
- If you click on the button "Modify" you can enter comments to a case.

Online Data Entry – Survey Manager

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University of Zurich Institute of Social and Preventive Medicine	Survey Manager 🧳 AMIS	Plus
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 Download Upload 	Security messages: Due to security reasons you should change your password.! 	
 Change profile Logout 	Important news:	
▶ User Manual	08 Sept 2008: A new update of the Survey Manager and the questionnaire has been installed. Please send any comments to <u>amis@ifspm.uzh.ch</u> .	
	Important links:	
	Start a new case Cases	
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Online Data Entry – List of open cases



Online Data Entry – Follow-Up Interviews



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Erneute Hospitalisation wegen kardiovas	

Online Analysis - only Browser needed

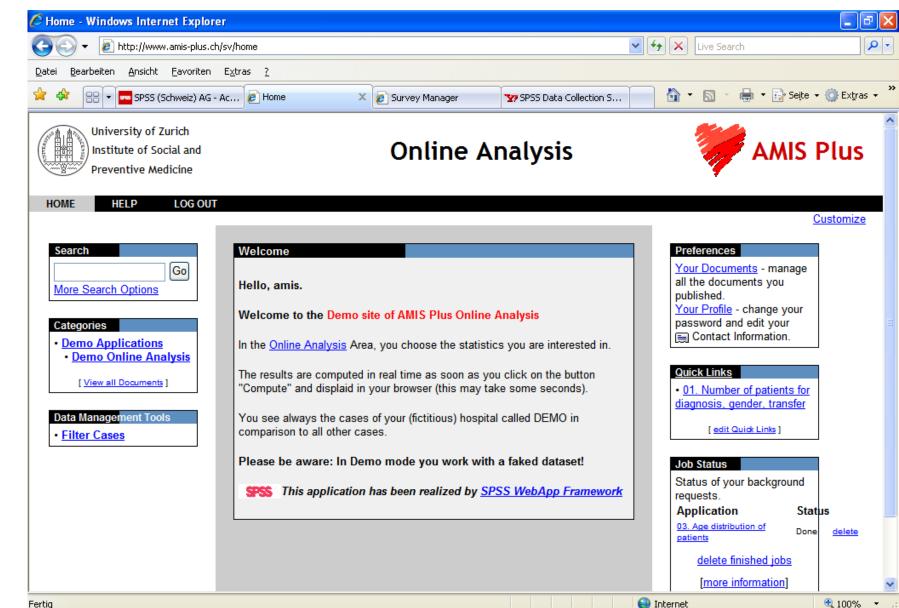
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Project	AMIS Plus Online Analysis	
News and Events	User Guide for Online Analyses (English) (<u>PDF)</u>	
Steering Committee	Merkblatt zur Online Analyse (deutsch) <u>(PDF)</u>	
Data Center		
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>Data Analysis





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		History of arterial hypertension	N	585	2367	2952			
			%	57.0%	57.3%	57.3%			
		Smoking	N	656	2687	3343			
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		History of	N	603	439	164	2347	1713	634	2950	2152	798	
		dyslipidemia	%	58.8%	60.0%	55.8%	56.8%	57.0%	56.3%	57.2%	57.6%	56.2%	
		History of	Ν	585	380	205	2367	1554	813	2952	1934	1018	
		arterial hypertension	%	57.0%	51.9%	69.7%	57.3%	51.7%	72.2%	57.3%	51.8%	71.7%	
		Smoking	N	656	538	118	2687	2279	408	3343	2817	526	
			%	63.9%	73.5%	40.1%	65.1%	75.9%	36.2%	64.8%	75.4%	37.0%	
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		History of dyslipidemia	Ν	603	439	164	2347	1713	634	2950	2152	798	
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		History of arterial	Ν	585	380	205	2367	1554	813	2952	1934	1018	
		hypertension	%	57.0%	51.9%	69.7%	57.3%	51.7%	72.2%	57.3%	51.8%	71.7%	
		Smoking	Ν	656	538	118	2687	2279	408	3343	2817	526	
			%	63.9%	73.5%	40.1%	65.1%	75.9%	36.2%	64.8%	75.4%	37.0%	
		Total	Ν	1026	732	294	4129	3003	1126	5155	3735	1420	
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		dyslipidemia	%	58.8%	60.0%	55.8%	56.8%	57.0%	56.3%	57.2%	57.6%	56.29
		History of arterial	N	585	380	205	2367	1554	813	2952	1934	101
		hypertension	%	57.0%	51.9%	69.7%	57.3%	51.7%	72.2%	57.3%	51.8%	71.79
		Smoking	N	656	538	118	2687	2279	408	3343	2817	52
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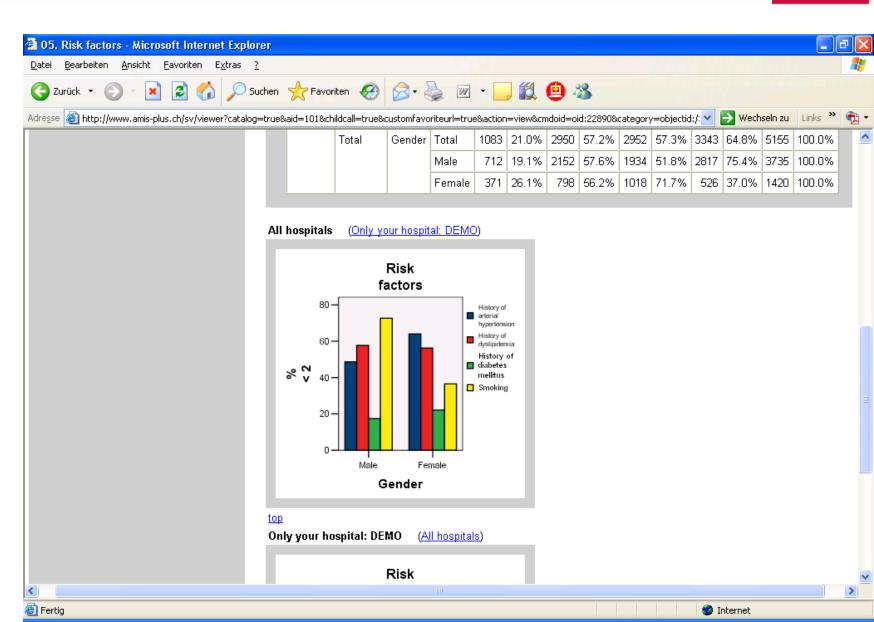
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		ID 😆			Male	136	18.6%	439	60.0%	380	51.9%	538	73.5%	732	100.0%	
					Female	80	27.2%	164	55.8%	205	69.7%	118	40.1%	294	100.0%	
			Other	Gender	Total	867	21.0%	2347	56.8%	2367	57.3%	2687	65.1%	4129	100.0%	
			hospitals		Male	576	19.2%	1713	57.0%	1554	51.7%	2279	75.9%	3003	100.0%	
					Female	291	25.8%	634	56.3%	813	72.2%	408	36.2%	1126	100.0%	
			Total	Gender	Total	1083	21.0%	2950	57.2%	2952	57.3%	3343	64.8%	5155	100.0%	
					Male	712	19.1%	2152	57.6%	1934	51.8%	2817	75.4%	3735	100.0%	
					Female	371	26.1%	798	56.2%	1018	71.7%	526	37.0%	1420	100.0%	
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Graph for all hospitals



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>IHAM www.Hypertensioncohort.ch

- Online Registry for GP
- Measuring high blood pressure

IHAMB Institut für Hausarztmedizin Universität Basel	Hc.cH Hypertensioncohort.ch	
Hypertonie		
Hypertonie neu entdeckt?	○ Ja ○ Nein	
FALLS HYPERTONIE NICHT NEU ENTDECKT Hypertonie bekannt seit (Jahr, z.B. 2005)		
Art der Hypertonie:	 Essentiell Renovaskulär Renoparenchymatös Anderes 	
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>Data Mining for Health

- Combines comprehensive data analysis techniques
 - Including advanced modelling algorithms
- With domain knowledge
 - E.g. Biological, Medical
- To produce new insight and predictive capability
 - E.g. classification, discovery of categories

Dr. Bremer, Director brain tumor research, Children's Hospital Chicago:

- Each year, nearly 3,000 children in the U.S. are diagnosed with brain tumors
- Almost half will die within five years. Brain tumors have become the leading cause of death for children with cancer
- Beyond surgery, successful treatments for pediatric brain tumors are rare

>Tumor Classification

- Three main types of statistical problems in tumor classification:
 - 1. Identification of new tumor classes
 - unsupervised learning, cluster analysis, class discovery
 - 2. Classification into known classes
 - supervised learning, discriminant analysis, class prediction
 - 3. Identification of "marker" genes that characterize different tumor classes

>Tumor Model Summary

- Built predictive models for the classification of pediatric brain tumors
 - Based on Neural Nets
 - Based on Decision Trees
- Greater than 90% accuracy on unseen test data.
- A rapid classification of the tumor and its stage / grade - allows an earlier therapy increasing the patients chances for survival

>Data Mining for Public Health

- Detect fraudulent healthcare billing claims
- Enhance disease surveillance and public health security
- Make more informed decisions for patient care: Sequence of procedures for good patient outcome
- Monitor patient satisfaction

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Data Mining possibilities for Health insurers

- Disease Management
- Marketing optimization for finding new customers and up selling
- Churn analysis
- Prevent of fraudulent bills





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