Recommendations for future

Taken from the Action plan.

COMPONENT I

E X P E R T : W. van Pelt (Activity 1.5 - 04/2005)

17 Let professionals meet weekly for 1 hr to discuss bottle-neck in the control of CD, actual problems, signals from surveillance and signals from abroad.

E X P E R T : M. Otto (Activity 1.9 - 01-02/2006)

- 44 A reliable internet connection of sufficient bandwidth is crucial for the success of the project !
- 45 RUVZ Banska Bystrica: here the internet connectivity (minimum bandwidth 512 kBit/s, better 2 MBit/s) should be improved. Switch from radio-based connectivity to cable/dsl connectivity.

E X P E R T : W. van Pelt & A. van de Giessen (Extra activity 1.12 - 09/2006)

59 Collaboration between experts from the public health authorities and veterinary and food authorities should be further stimulated and facilitated. Also, collaboration between the national public health and the veterinary national reference laboratory should be realised.

EXPERT: J. de Boer & H. Gotz (Extra activity 1.15 - 09/2006)

- 60 Training on these subjects should be continued in Slovakia. Ms. Kristufkova is presently giving epidemiological training, an activity which should be continued. It would be preferable to start courses for trainers of trainers (TOT).
- 63 Give English courses to professionals in public health.

COMPONENT II

E X P E R T : J. Galama (Activity 2.2 - 04/2005)

- 5 Consider to bring the Virology NCRs at the NIPH under a single organisation with a virus isolation laboratory, headed by a classical virologist, a molecular laboratory for all NAT, headed by a molecular biologist and a serology laboratory, headed by a clinical immunologist. Within this organization, reference tasks can still be supervised by reference specialists.
- 6 Reconsider to bring more PH reference activities under a single umbrella, whether or not to be concentrated at one single place, for example, hepatitis, candidate emerging viruses (zoonoses), viral STD (including HIV), food-related viruses etc. *See nr. 5*
- 7 There is need to increase mutual understanding and close collaboration between the fields of epidemiology and microbiological laboratory.
- 8 Stimulate a climate for development of private diagnostic virology (financed by insurance companies) and in University Hospitals, with virus isolation as well as NAT, performed outside governmental institute.
- 9 Development of electronic laboratory administration system.

E X P E R T : B. Mulder (Activity 2.2 - 04/2005)

- 10 Monitor improvement of coordination between NRC and clinical laboratories.
- 12 Implementation of software application for laboratory information system. See nr. 9
- 17 Make computer and software available for data registration in the laboratories. See nr. 9
- 19 Need to increase mutual understanding and close collaboration between the fields of epidemiology and microbiology. *See nr. 7*
- 22 Reduce vulnerability in continuity by increasing staff and personel formation.

E X P E R T : J. Galama (Activity 2.5 - 02-03/2006)

52 To expand the number of facilities for virus diagnostics (for example in university or teaching hospitals) as to increase the numbers of samples being analysed for viruses which can be a PH threat.

EXPERT: W. Melchers (Activity 2.5 - 04/2006)

- 54 It is recommended that the potential supervisor will get extensive training possibilities in this area (either by following courses or work-visits in established laboratories).
- 58 It will be important to establish a Slovakian working group on molecular diagnosis in which open discussions concerning newly acquired experiences will extend the possibilities to introduce these techniques country-wide.

Twinning No. SK03/IB/SO/01

Strengthening the Surveillance and Control of Communicable Diseases

EXPERT: W. Melchers (Activity 2.6 - 06/2006)

- 67 It is recommended that Dr. J. Černická will get extensive training possibilities in this area. Especially an internship in an established laboratory is recommended. By doing so, she can learn all potentials and pitfalls of these technologies in a relative short time period without being confronted with these issues in her own setting from the start.
- 70 As indicated previously, it will be important to establish a Slovakian working group on molecular diagnosis in which open discussions concerning newly acquired experiences will extend the possibilities to introduce these techniques country-wide.

E X P E R T : J. Galama (Activity 2.6 - 07/2006)

- 73 Increase attention for clinical virology in the medical curriculum at Universities (Virology, not only within the Science Faculty but also in the Medical Faculty).
- 74 Integrate virology in the clinical diagnostic proces by introduction of viral diagnostic units in the Microbiology Departments of University Hospitals and large Teaching Hospitals.
- 75 Providing training of medical professionals how to apply viral diagnostics.
- 76 Increase number of clinically relevant diagnoses, which will improve sight on the prevalence and incidence of viral infections.

E X P E R T : K. De Schipper-Visser (Activity 2.7 - 09/2006)

- 78 Retrieving Quality Manual from former Quality Manager Bratislava.
- 80 Research on a way to implement a Laboratory Information System.

COMPONENT III

E X P E R T : K. De Schipper-Visser (Activity 3.3 - 06/2006)

5 Evaluate the effort/benefits of organizing EQAS rounds for two regional PHA.

E X P E R T : K. De Schipper-Visser (Activity 3.4 - 09/2006)

- 6 Still include SOP's on EQAS in system of document control.
- 8 Research on the possibilities to develop a system for EQAS on a national level that's appropriate for public health laboratories as well as private clinics (as recommended by Dr. Niks).

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Strengthening the Surveillance and Control of Communicable Diseases

| Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------------------------------------------------------------------------------|
| COMPONENT I | Coordinator: N | Is Avdicova | | | |
| Activity 1.3 | Brainstorm ses diseases | ssion concerning the user requirements of the su | irveillance a | and control s | system of communicable |
| M. Otto (04/2005) | | | | | |
| 1 The Influenza Reporting system will be integrated into the new database (as an independent module). | Avdicova | Will be integrated to analysis of information system requirements. | | 31 October 2006 | |
| 2 The EWS should provide verbal information on national cases as well as on European cases. | Avdicova | Will be integrated to analysis of information system requirements. | | | The current EWS works this way, even manually. |
| 3 The EWS should enable an automated evaluation of the actual influenza situation. | Avdicova | Will be integrated to analysis of information system requirements. | | 31 October 2006 | |
| 4 The EWS should report to the EISS of the EU. | Avdicova | Will be integrated to analysis of information system requirements. | | 31 October 2006 | |
| 5 Ing. Accipiter will prepare a flow chart on the flow of data on infectious diseases as discussed during the brainstorm meeting an April 19 at Banska Bystrica. | Accipiter | Followed. | | April 2005 | |
| Activity 1.4 | Evaluation of c | data protection regulations and its implementation | n | | |
| J. Holvast (04/2005) | | | | | |
| 6 Information systems processing: As all this information will almost be the same for all regional centres, it is recommended to make a model which can be used by all of them. | Avdicova | Followed. | | finished | The information system works the recommended ways already for many years. |
| 7 Intervene with the Data Protection Office. | | Followed. Wording of paragraphs regarding the infectious diseases in the new Law on Public Health were approved by the Data Protection Office. | | finished | |

<u>Action plan</u>

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------|----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| | To prevent that individual consent of the patient is necessary for distributing information from the general practitioner/hospital to the RIPH's it will be tried to put in the new Law on Public Health a paragraph in which it is laid down that this distribution is obligatory, together with a list of personal data, the purpose of their processing, conditions for their acquisition and the group of subjects. | | Included in the new Law on Public Health. | | finished | |
| | In the same Law on Public Health it will be promoted that the National Register of communicable diseases will be seen as a health care facility. | | Included in the new Law on Public Health. | | finished | <i>3rd St.C.:</i> suggestion for future consultations with other organizations because of overlap |
| 10 | Question on data protection and ethnicity. | Avdicova | Information will be collected by another way. | | finished | 3rd St.C: Meeting Data Protection Office conclusion: data can't be collected |
| | Activity 1.5 | | d recommendations on the: quality and range of etween NRC data and CD database; output and | | | |
| | W. van Pelt (04/2005) | | | | | |
| 11 | Good moment to improve content of what is registered. | Avdicova | Followed. | | finished | |
| | Do not tender for completely new software. Make an inventory of systems in use in different countries that fit the needs and routine in Slovakia and that can be easily adapted by Slovak experts. | Avdicova | Not followed. No financial resources dedicated for such inventory. | | finished | 3rd St.C.: suggestion make inventory of systens from other countries. Conclusion: not needed, have studied 3 systems already |
| | Do not tender for software specifically for influenza surveillance. | Avdicova | Followed. | | October 2005 | |
| | Do not tender for an Early-Warning System!!! There is no software company who can understand what you want or has the epidemiologic or scientific knowledge. | Avdicova | Not followed. EWS will be tendered as electronic system for private communication of experts. | | finished | 3rd St.C.:comment: different approach to originaly planned development of SW; answer: decided to stick to orginal plan after analysis |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Proposition for a Basic System: It is strongly recommended to choose the place where the national CD- register is located, in Banska Bystrica. They already have the personnel the routine for data collection, tradition in reporting and analytical and informatics people for this purpose. | | Followed. The National CD register will be located in RPHA Banska Bystrica, as written in the new Law on Public Health. | | finished | |
| 16 | | | Followed. Mentioned action will be applied after evaluation of questionnaire study among GP and other Health professionals. | End 2006 | | No action yet. Task of all epidemiologists. when development of software is finished, regional meetings will be organised as well as the press conference and articles in Health Newspapers will be publiched. |
| 17 | Let professionals meet weekly for 1 hr to discuss bottle- neck in the control of CD, actual problems, signals from surveillance and signals from abroad. | Avdicova | Accepted as a good idea, not applied yet. | | | |
| | Invite professionals to write about all possible topics of interest to Slovakian public health practice. Make them available on the web for all practitioners. Add English abstract to interest for example Euro-surveillance weekly/monthly. | | Followed. Mentioned action will be applied after evaluation of questionnaire study among GP and other Health professionals. <i>Related to no.</i> <i>16.</i> | End 2006 | | No action yet. Task of all epidemiologists. when development of software is finished, regional meetings will be organised as well as the press conference and articles in Health Newspapers will be publiched. |
| | Protocollise per disease what has to be registered- notified dependent on GP, Lab or PHA. Which disease should be notified if suspected and which when lab- positive. Only report suspected cases if there is a public health threat, define and protocollise this. Otherwise only report positive cases. | | Followed. Included in the wording of the new Law on Public Health. | | finished | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| 20 | Translate and adapt protocols from other EU countries and use the principals of A,B and C diseases | | Followed. Included in the wording of the new Law on Public Health. | | finished | |
| 21 | Investigate underreporting and coverage (oblige labs to make year reports for example) | Avdicova | Accepted, not applied yet. | First half 2007 | | As soon as new system is installed, this can also take place, but could be evaluated at leats after few months of system running. |
| 22 | Look at examples of web-based reporting systems in other countries. Ask them copies of the software involved | Avdicova | Partly followed. | | finished | There are language barriers in understanding system from other countries (Web based systems are e.g. in The Netherlands, Sweden, Ireland). Also, the philosophy of the system can be hardly understand from a software (e.g. Ireland has a special terminology). |
| 23 | Build in levels of availability of parts of the website dependent on the authority of the web-visitor (for example public, media, GP, Lab, or Ministry of Health) | Avdicova | Is already integrated in design of new system. | | finished | |
| 24 | | Avdicova / working group | Followed. Data are collected, data will be entered to a computer database and evaluated. | | finished | |
| 25 | Do not at this moment in time bother the national developments of a Basic System with activities that are mainly laboratory management activities! Automated electronic laboratory surveillance is far future | Avdicova | Accepted. | | finished | |
| 26 | The server serves all PHA, Standard laboratories, relevant clinicians, Reference laboratories and eventually in the future all GP | Avdicova | Is already integrated in design of new system. | | finished | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks | |
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| 27 | The Basic System should know: The personal identity number of the patient entered in the system which has to be unique. Each PHA, each Lab, each GP each specialist or recording person needs to have a unique identifier and must be made to know and asked for allowance on the system at some moment to the Basic System (i.e. on the server). The names addresses and telephones, e-mail of the institutes must be known in the Basic System. | | Included in the data structure required by the new Law on Public Health. | | finished | | |
| | Activity 1.6 | Second brains diseases | torming session concerning the design of the su | rveillance a | nd control sy | ystem of communicable | |
| | M. Otto (05/2005) | | | | | | |
| | No recommendations | | | | | | |
| | | Development o system | of a communication architecture which will be the | e conceptua | al framework | of the new information | |
| | M. Otto (08/2005) | | | | | | |
| | STE (possibly supported by the RTA) will contact the Dutch authorities at RIVM to obtain details related to the Dutch reporting system ISIS. | | RTA/NSPOH has asked RIVM for more infromation on this issue (28/03) | | | Waiting for reply from RIVM; see also nr. 40 | |
| 29 | 001 | | Followed. The task is still running and working groups are still continuing with their work. | | Running from December 2005 | | |
| 30 | , , , , , | | Followed. The questionnaire was created, data were collected, the evaluation is completed. | | finished | See also 4th Q.R., p.9 | |
| | | Development of a specification of the information system(s), including the mechanisms for generating, distributing, updating and evaluating information within the identified areas and taking SOP, QA/QC principles into account. Defining the links between NRC laboratory data and CD database. Preparation of ToR (including the technical specifications for the web-site and the implementation of the new systems throughout the country) for TA & training (service contract) | | | | | |
| | M. Otto (12/2005) | | | , | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| | quality. Thus they should be preserved and made available in the new system, e.g. for future analyses of long term trends. | Avdicova / Hruba | Already implemented in the design of the new system | | finished | |
| | The envisaged architecture of a central data base accessed via a web module will overcome shortcomings of the present EPIS-System which relies on (numerous) distributed local data bases. | Avdicova / Hruba | Already implemented in the design of the new system | | finshed | |
| | The data fields in the forthcoming electronic register of communicable diseases should correspond as closely as possible to the data fields used in the paper-based blanks (e.g. name of responsible official, measures taken, contact, case management/version). | Avdicova / Hruba | Data fields in the paper-based blanks are also under process of revision. | | end of 2006 | |
| 34 | A web-based flexible analysis and presentation of data according to different criteria, e.g. disease, aetiology, age and gender distribution as well as spatial (GIS) and temporal patterns is a top priority matter. To the general public, only aggregated data should be made available. | Avdicova / Hruba | Already implemented in the design of the new system | | finished | |
| | The register should be flexible enough to accommodate new medical knowledge. Appropriately qualified operators should - up to a certain extent - be able to modify menues and/or static information. | Avdicova / Hruba | Already implemented in the design of the new system | | finished | |
| | The system should enable a flexible data export to EU- networks. | Avdicova / Hruba | Already implemented in the design of the new system | | finished | |
| | classification of cases into 3 categories and handling of related cases)should be based on the National Register of Physicians and Hospitals (including hospital departments) etc. | Hruba | Already implemented in the design of the new system | | finished | |
| | With respect to the storage and processing of data at the local (GGD) level, it was learned that a duplicate data entry may be necessary (information provided by RIVM). | Avdicova / Hruba | All data will be stored and processed at the central level, which excludes the option of duplicate data entry. | | finished | |
| 39 | , | Avdicova / Hruba | Local case management is included now in the central database in the design of the new system | | finished | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| 40 | | Avdicova / Hruba | RTA/NSPOH have asked RIVM for more information on this issue (28/3). The offer still stands according to Marja Esveld, RIVM (email 5/4/06). The system at the moment is not ready yet to be implemented in other countries. | | offer, might be intresting for CC in | RIVM/Marja Esveld said (email 5/4/06) that in the e.g at the end of 2006, the CC can email her about the system again to see if it is ready yet. |
| 41 | 5 | Avdicova / Hruba | Not used. | | finished | |
| | | | of a technical framework, including recommenda ct), software, data-format, issues of security, acc | | | |
| | M. Otto (01-02/2006) | | | | | |
| 42 | Involve a broad(er) group of future users in the revision of the analysis report and later also in the pilot testing phase | | 5-6 RUVZ plus UVZ SR Bratislava and RUVZ Banska Bystrica are proposed to test the system. | | | Broader group now involved |
| 43 | 5, (| Avdicova / Hruba | Followed. Web design for the system will be developed by a specialized web design company. | | Autumn 2006 | After the testing of the system this will also happen. |
| 44 | | Avdicova / Hruba | The idea is accepted and it is estimated to be solved by PHA SR in Bratislava. | End of October 2006 | | |
| 45 | , , , , , , , , , , , , , , , , , , , | Avdicova / Hruba | The idea is accepted and it is estimated to be solved by PHA SR in Bratislava. | End of October 2006 | | |
| 46 | 5 1 , | Avdicova / Hruba | Out of the project scope. | | | Not possible to negotiate about this and for the success of this project this is not crucial. |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 47 | With respect to the expected server housing at RUVZ Banska Bystrica, location-specific guidelines (in Slovak language) for access control, operation, safety, updates, backup procedures and emergency training should be developed, taking discussions with the STE and own experience into account. | | It is not planned for implementation within this project. | | | |
| 48 | Start preparing a training concept (i.e. a train-the-trainer approach) for the future users of EPIS – in line with the progress of the project and in close collaboration with SOFTEC | | Followed. Training of users was organized partly by company SOFTEC in August 2006 and partly by RPHA in Banska Bystrica in September 2006. | | Aug & Sept 2006 | |
| | Activity 1.10 Activity 1.11 <i>A. Timen (02/2006)</i> | | f Slovak specific general guidelines for outbreak kshop on outbreak management for regional staf | • | | control and cohort studies |
| 49 | Assess the goals of this project component on short and long term; formulate the content of the remaining activities on the basis of this assessment. The development of the new software requires a great deal of energy and it is my feeling that other activities in this component are subordinated to the software development. | Avdicova / Hruba | Aware of this. However, all activities under Comp. I are interrelated and not 1 is more important than another. | Oct 2006 | | The 2- days that were left over for act. 1.11 and the extension of act. 1.15 paid attention to this recommendation. |
| 50 | Organize an in depth training for a small group in methodology of outbreak investigation: - lecture on basic epidemiological principles and statistic significance (RR, OR, AR, CI, p, confounding and bias) - interactive training with a case – control study Profile expert: epidemiologist working in the field of surveillance of infectious diseases at the national level (possible topics: salmonellosis, legionellosis) | Avdicova / Hruba | Accepted. | | | The extension of act. 1.15 was used for this. |
| | W-A. van Stiphout (07/2006) | 1 | 1 | 1 | | |

| Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|--------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------|---------------|--------------------------|-----------------------------|
| | Avdicova / | Followed. It was communicated through RTA | • | took place: | |
| , | RTA office | office with STEs in order to include this in the | 19 - 22 | Sept 2006 | |
| recommended to repeat the issues on data analysis | | next training in September 2006. | | | |
| (validity) during the next training in September by way of | | | | | |
| some exercises. 2 It should also be considered whether simultaneous | Avdicova / | Followed. It was communicated to RTA office | Troining | took place: | |
| translation would be helpful or not. | RTA office | and the interpretation was arranged for the | | took place: Sept 2006 | |
| | RTA OIICE | next training in September 2006. | 19 - 22 | Sept 2000 | |
| Activity 1.13 | Implementatio | n, testing and evaluation of the new systems on | data collec | tion in 5 sele | cted pilot regions |
| M. Otto (07/2006) 1st part | Implementatio | | | | |
| | | Followed This is involved in the confluence | | Ostalaas | |
| 3 Install a help desk / hotline to answer emerging problems | | Followed. This is involved in the software | | October | |
| | Hruba Avdicova / | project (discussion forum). Followed. This was involved in software project | | 2006 | |
| Consider a "train-the trainer" approach to educate well- experienced people at each RPHA which in turn may help | | and now it is finished. | | 27-28 Sept 2006 | |
| in the case of local problems. | пира | | | 2000 | |
| 5 Create a discussion forum on technical issues on the | Hruba | Followed. This is involved in the software | | October | |
| portal. | 1 II GOG | project (discussion forum). | | 2006 | |
| 6 Put a FAQ-list on the portal | Hruba | Followed. This is involved in the software | | October | |
| | | project (discussion forum). | | 2006 | |
| 7 Consider an evaluation of the training course (e.g. by | Avdicova | Not followed. Training course was evaluated by | | | |
| means of a questionnaire) | | discussion by now. | | | |
| <i>M. Otto (08/2006) 2nd part</i> | | | | | |
| 8 In August 2005, workgroups on groups of diseases (virus | Avdicova | Accepted. In the process. | End of | | The list of members for |
| hepatitis, foodborne diseases, nosocomial infections, | | | October | | workgroups which will be |
| STD, zoonoses, diseases preventable by vaccination) | | | 2006 | | nominated by PHA SR |
| had been established. It is strongly recommended to | | | | | was prepared. |
| make these workgroups permanent. They should care for | | | | | |
| a high data quality in their respective field and also for | | | | | |
| updates in the EPIS menus according to the "state of the | | | | | |
| art". | | | | | |
| Extra activity 1.12 | 1 day worksho | op for Salmonella (EU-legislation, early-warning,c | control, inte | rnational obl | igations and collaboration) |
| | | | | | |
| W. van Pelt & A. van de Giessen (09/2006) | | | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------|----------|---------------------|---------|--|
| 59 | Collaboration between experts from the public health authorities and veterinary and food authorities should be further stimulated and facilitated. Also, collaboration between the national public health and the veterinary national reference laboratory should be realised. | | | | | | |
| | Extra activity 1.15 3 day training on risk assessment and -management, and different aspects of outbreak investigation (cohort and case control study), followed by a final conference on the same subject. | | | | | | |
| | J. de Boer & H. Gotz (09/2006) | | | | | | |
| 60 | Training on these subjects should be continued in Slovakia. Ms. Kristufkova is presently giving epidemiological training, an activity which should be continued. It would be preferable to start courses for trainers of trainers (TOT). | | | | | | |
| 61 | Training of trainers is preferable in order to achieve sustainable results. | Avdicova | Followed. Trainings of epidemiologists will take place. | | | | |
| 62 | Training parts should be followed by a continuous group of participants. | Avdicova | Trainings of epidemiologists would be enough to organize in the future. | | | | |
| 63 | Give English courses to professionals in public health. | | Language knowledge is recommended for all public health professionals, but it is not requirement from the employer. | | | | |

recommendations for future

Twinning No. SK03/IB/SO/01

Strengthening the Surveillance and Control of Communicable Diseases

| ļ | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks | | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|--------------------------------------------------------------------|--|--|
| C | COMPONENT II | Coordinator: N | ls Bosa | | | | | |
| 4 | | of NRC staff a | existing knowledge and experience on quality as nd analysis of available equipment and material of technical specifications for supply contract | | | ogressive detection methods | | |
| | J. Galama (04/2005) | | | | | | | |
| (| Equipments, as listed in Annex 6 of report FICHE_2003- 004-995.03.07. Surveillance, will strengthen the position of the NRCs in the NIPH. | | Followed. Tender for supply of equipment and HW took place. | | 30 Nov 2005 | | | |
| r ł | Priority for establishment of BSL-3 facility, which are nandatory for pandemic flu, poliovirus, SARS, nemorrhagic fevers, highly pathogenic agents (bio- errorism) etc. | Gavacova | Followed. Existing BSL3 lab doesn't fulfil all requirements (WHO Biosafety Manual, EU standards, national law) for BSL3 lab. The request was forwarded to management of PHA SR. The progress depends on the financial capacities. | | | Related <u>Act 2.3</u> visiting BSL3 lab in the Netherlands. | | |
| | Next June, Dr. J. Adamčáková will visit the NRC for nfluenza in Rotterdam. | | The internship of Dr. Adamcakova took place as part of <u>Act 2.3.</u> | end of influenza season | 2-15 April 2006 | | | |
| | | | The internship of Dr. Tietzova took place as part of <u>Act 2.3</u> | | 5-18 June 2005 | | | |
| s h f s V | Consider to bring the Virology NCRs at the NIPH under a single organisation with a virus isolation laboratory, neaded by a classical virologist, a molecular laboratory for all NAT, headed by a molecular biologist and a serology laboratory, headed by a clinical immunologist. Within this organization, reference tasks can still be supervised by reference specialists. | | Not followed. This issue was discussed. At the moment there is no possibility to implement this system of management. Not possible to implement. | | | | | |
| s s v | Reconsider to bring more PH reference activities under a single umbrella, whether or not to be concentrated at one single place, for example, hepatitis, candidate emerging <i>v</i> iruses (zoonoses), viral STD (including HIV), food-related viruses etc. | | Not followed. | | | See nr. 5 | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | There is need to increase mutual understanding and close collaboration between the fields of epidemiology and microbiological laboratory. | | No comment. Not related to the aim of the project. | | | |
| 8 | Stimulate a climate for development of private diagnostic virology (financed by insurance companies) and in University Hospitals, with virus isolation as well as NAT, performed outside governmental institute. | | No comment. Not related to the aim of the project. | | | |
| 9 | Development of electronic laboratory administration system. | | Followed. The request for LIS (Laboratory information system) has been followed to the management of PHA SR. The progress depends on financial capacities. | | | Suggestion: to finance LIS with spare money for SW development Comp I. 3rd St.C.: this is not possible: further discussion suggested St.C.: LIS will be developed partially as a part of epidemiology software |
| | B. Mulder (04/2005) | | | | | |
| 10 | Monitor improvement of coordination between NRC and clinical laboratories. | Bosa | | | | |
| 11 | Implementation of laboratory equipment for NRC's (annex 6, see above). | Bosa | See <u>Act 2.2</u> Mr Galama / nr. 1 | | finished | |
| | Implementation of software application for laboratory information system. | Bosa | See <u>Act 2.2</u> Mr Galama / nr. 9 | | | |
| 13 | Extension of bacteriological NRC's with broader range of related bacterial pathogens. | | Followed. Planned extension with Streptococcus pneumoniae, EHEC diagnostic. | 2007 | | Depends on financial capacities and laboratory facilities. |
| 14 | Implementation of molecular biology unit for bacterial pathogens. | Bosa | Followed. Proposed establishment of the Laboratory for Molecular Diagnostic. The laboratory is provided with technical and staff capacities. | | | See also nr. 26 and act. 2.5 (Mr. Galama). |
| 15 | Improve internal quality control of susceptibility testing by using reference strains. | | Followed. The reference strains were ensured: partly bought from international institution and partly provided by NRCs from the Netherlands | | Sept-Oct 2005 | |

| Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|--------------------------------------------------------------------|
| 16 Implement participation in an external quality control system (for bacterial testing). | Bosa | Followed. External control of NRC for Meningococci was realised by interlaboratory comparison. | | October 2005 | Acceptable results. |
| 17 Make computer and software available for data registration in the laboratories. | Bosa | See <u>Act 2.2</u> Mr Galama / nr. 9 | | | |
| 18 Arrange complete sending of strains from clinical laboratories to NRC. | | All clinical labs are obliged to send samples to related NRCs according to conditions stated in Regulation of Chief Hygienist of SR. | | finished | |
| 19 Need to increase mutual understanding and close collaboration between the fields of epidemiology and microbiology. | | See <u>Act 2.2</u> Mr Galama / nr. 7 | | | |
| 20 Strengthen infrastructure of NRC's by providing laboratory equipment (see above). | Bosa | See <u>Act 2.2</u> Mr Galama / nr. 1 | | finished | |
| 21 Provide epidemiological data by introduction of Pulse Field Gel Electrophoresis (PFGE) technology. | Gavacova | Followed. PFGE technology is planned to be implemented for <i>Salmonella spp</i> . | | | Related to <u>Act 2.3,</u> internship of Dr Gavacova |
| 22 Reduce vulnerability in continuity by increasing staff and personel formation. | | | | | |
| 23 Strengthening the NRC of Salmonellosis by simultaneous development of reference for other enteric pathogens (Enterohemorragic E. coli, Campylobacter spp.). | Gavacova | Followed. Planned extension with EHEC, Capmylobacter spp. diagnostic. | 2007 | | Related to <u>Act 2.3,</u> internship of Dr Gavacova |
| 24 Strengthening the NRC of Meningococci by simultaneous development of reference for other bacterial pathogens (S. pneumoniae, H. influenzae, Listeria monocytogenes) in view of the extension to a national reference laboratory for bacterial meningitis. | Svejnochova | Followed. Planned extension with Streptococcus pneumoniae diagnostic. Other pathogens will follow in the future. | 2007 | | Related to <u>Act 2.3,</u> internship of Dr Bosa. |
| 25 Priority for establishment of Bio Safety Level 3 laboratory (BSL3) conditions for the implementation of Antrax detection. | Gavacova | Followed. Existing BSL3 lab doesn't fulfil all requirements (WHO Biosafety Manual, EU standards, national law) for BSL3 lab. The request was forwarded to management of PHA SR. The progress depends on the financial capacities. The project of the BSL 3 lab is in preparation. | | | Related <u>Act 2.3</u> visiting BSL3 lab in the Netherlands. |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|-----------------------------------------------------------------------------------------------------|
| | The creation of a centralised molecular biology unit for bacteriological typing to extend diagnostic and epidemiological activities. | Bosa | Followed. Proposed establishment of the Laboratory for Molecular Diagnostic. The laboratory is provided with technical and staff capacities. | | July 2006 | Started. See also nr. 14 |
| | W. Waijboer (04/2005) | | | | | |
| 27 | Internal auditor course (RPHA Banska Bystrica). | Bosa | Not relevant for this project. | | finished | 3rd ST.C.: financed by external sources as part of accreditaion process (SNAS is provider) |
| 28 | Quality assurance/control training for Mr Bakos, specific for medical laboratories (ISO 17025) (RPHA Kosice). | Bosa | Not relevant for this project. | | finished | idem: see nr. 27 |
| | Internal auditor course for Mr Bakos and some other employees (RPHA Kosice). | Bosa | Not relevant for this project. | | finished | idem: see nr. 27 |
| 30 | One week internship J. Bosa: with a focus on the translation of the theory of the ISO 17025 standard into a practical and efficient quality assurance/control system (PHA SR Bratislava). | | The internship of Dr. Bosa took place as part of <u>Act 2.3.</u> 3rd week of the three-weeks internship was focused on ISO 17025 standard. | | 2005 | See programme and mission report of Dr. Bosa in the 2nd QR. |
| 31 | Information sessions for NRC heads about internal control and validation by the quality manager (Ms Waijboer will send info by e-mail) (PHA SR Bratislava). | Bosa | Followed. The session took place at PHA SR. | | Sept 2005 | |
| 32 | Internal auditor course (PHA SR Bratislava). | Bosa | Followed. The course was given by the Quality Manager. | | May 2004 | |
| | General recommendations/agreements on training needs for all NRC staff, lab-technicians etc. can be given by the quality manager (PowerPoint presentations) after the internships and implementation of relevant documents (quality manual and SOP's) together | Bosa | Followed. The session took place at PHA SR. All staff at the Section of Medical Microbiology were briefed with documents of system of quality (quality manual, SOPs etc.) | | October 2005 | |
| | Make a list of needed general SOP's for each selected NRC before 1 June (J. Bosa and other quality managers). | Bosa | Followed. The list of needed methods was made and translated into English and forwarded to Ms Waijboer. | | July 2005 | |
| | Make a list of needed method SOP's and equipment SOP's for each selected NRC before 1 June (NRC heads, J. Bose and other quality managers). | Bosa | Followed. The list of needed methods was made and translated into English and forwarded to Ms Waijboer. | | July 2005 | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|---------|
| | before 1 June (J. Bosa). | | Followed. | | Sept 2005 | |
| | Waijboer (and J. Bosa)). | group / | Followed. All essential documents for system of quality control were finalised step by step. | | October 2005 | |
| | system for each NRC before 1 July (J. Bosa and other quality managers (and Ms Waijboer)). | Quality Managers RPHA | | | | |
| | (J. Bosa and other quality managers). | Banska Bystrica & | | | | |
| 41 | Write missing general SOP's, start immediately (J. Bosa and other quality managers). Write missing method and equipment SOP's, start immediately (lab-technicians and NRC heads). | RPHA Kosice | | | | |
| 42 | | Bosa | Followed. | | May 2005 | |
| 43 | Sending specific criteria for accreditation of medical microbiology laboratories, of molecular biology in medical laboratories and virology by e-mail to the quality managers of Banska Bystrica and Kosice (J. Bosa). | Bosa | Followed. | | May 2005 | |
| 44 | U () | SR | Followed. Reconstructions in RPHA Kosice is finished. Reconstruction in PHA SR in Bratislava was completed in mid October 2006. | | October 2006 | |
| 45 | Audit SNAS. | Bosa | Followed. The successful assessment on place has been done in RPHA Banská Bystrica. The certificate was given in March 2006. | | 20 December 2005 | |
| | | | Followed. The successful assessment on place has been done in RPHAs Košice. The certificate was given in Sept 2006. | | 29 March 2006 | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| | | | Followed partly. The assessment on place has been done in PHA SR in Bratislava. The SNAS report showed 30 non-conformities. The deadline for solving most of them: 30 June. Next SNAS visit planned on Dec 2006. | | 1st SNAS visit: 11- 12 April 2006 | |
| | Activity 2.4 | Set up of a un | it for Quality Assurance / Quality Control within th | he Public He | alth Authorit | у |
| | W. Waijboer (09/2005) | | | | | |
| 46 | Wait with the application for accreditation. First: validate all the methods; finalise all the draft versions (quality documents); implement/introduce all the quality documents in the laboratories; work with the quality documents; perform internal audits; improve the quality system (solve nonconformity's internal audits); write management review. | Bosa | Not followed. The application form with requested documentation of system of quality was sent to SNAS. | | 2005 | The issue with reasons were discussed at the 2nd meeting of the Steering Committee. See Minutes of the 2nd Stc meeting (included in the 3rd QR). |
| 47 | | Bosa | Followed. The Quality Manual was translated for Mrs. De Schipper in April 2006 (act. 2.5). | | | The translation would be useful for future collaboration with international institutions. |
| 48 | 5 | Gavacova | Followed. Two Dutch SOPs were translated into Slovak language in May 2006. | | May 2006 | The translated document can help quality manager with implementation of other methods. |
| | Activity 2.5 | Training of sta | ff of 9 selected NRC's in quality control systems | and progres | sive detection | on methods |
| | J. Galama (02-03/2006) | | | | | |
| 49 | PCR for mumpsvirus, parvovirus B19 and mycoplasma contamination of TC soon be implemented. | Tietzova | Planned. Start in November 2006. | Autumn 2007 | | |
| 50 | Providing of the PHL's in Banska and Kosice with Vero- SLAM-, and RK13 cell lines as to spread the capacity for MMR surveillance over the country. | Tietzova | Planned. Started in June 2005. | Autumn 2007 | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| | To establish with the epidemiologists a more tight cooperation on Improvement of the MMR surveillance by raising the numbers of adequate samples reaching the lab.B63 | Tietzova | Followed. Started in 2006. It is not optimal yet but it functions. | | continuousl y | |
| 52 | To expand the number of facilities for virus diagnostics (for example in university or teaching hospitals) as to increase the numbers of samples being analysed for viruses which can be a PH threat. | | Not to be followed within this project. | | | |
| | (D. Van Soolingen) W. Melchers (04/2006) | | | | | |
| | The NCR is now establishing the infrastructure for reliable molecular diagnosis. This point will influence all further developments in this area and I therefore consider this aspect as a major break-point for future work. At this point I highly recommend to bring all molecular diagnostics work in a single unit under the supervision of full-area over-viewing head. This means that both molecular diagnosis and typing should be concentrated in the separate laboratories (clean-lab, clinical lab and analysing lab). In the analysis lab all available and new equipment (PCR, Light Cycler, PFGE) should be brought together, accessible for every assay. | | The lab for molecular diagnostics has been established. Ms Cernicka, the responsible person, suggested after the consultation with Mr Melchers the organization and workflow. Some methods have been already implemented into this lab but the full functioning will come after the reconstruction work and purchase of lab facility. Recommended separate labs and accessibility of the new equipment in analysis lab will be followed. | | finished | |
| 54 | It is recommended that the potential supervisor will get extensive training possibilities in this area (either by following courses or work-visits in established laboratories). | | Accepted but it depends on the future cooperation with other laboratories. | | | |
| | It is recommended to implement RAPD and PFGE as molecular tools for outbreak and epidemiological analysis in the laboratory setting. | | Followed. Next steps to speed-up the implementation of this process were agreed. | December 2006 | finalizing stage | |
| | It is recommended to incorporate the molecular diagnosis of parvovirus by PCR and enterovirus by real-time PCR (LightCycler) | Sobotova | Followed. Parvovirus - cooperation with Mr Melchers continues. Enteroviruses - object of the other TW light project (at Slovak Medical University). | December 2006 | finalizing stage | |

| Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| ⁵⁷ It is recommended to incorporate gene-targeted detection as an addition for non serological typable Salmonella strains. | Gavacova | Followed. Testing diagnostics have started after receiving the primers from Mr Melchers. This will be a basis for other methods in the future. | December 2006 | finalizing stage | |
| It will be important to establish a Slovakian working group on molecular diagnosis in which open discussions concerning newly acquired experiences will extend the possibilities to introduce these techniques country-wide. | | Accepted but it is an issue for the future. | | | |
| ⁵⁹ It will be important to establish a net-work for proficiency- panels to quarantine quality assessments. | Bosa / Head NRCs | Followed in all NRCs except the NRC for Meningococci. | for NRC Mening. 2007 | other NRC finished | |
| (W. Waijboer) K. De Schipper-Visser (04/2006) | | | | | |
| should be implemented asap. | PHA SR | Followed. | 2007 | | |
| 61 Active involvement of the top management towards the management system has to be described and implemented (ref: ISO 17025;2005, 4.1.6, 4.2.3, 4.2.4, 4.2.7). | Bosa | Followed. Will be described and incorporated into management system of labs of the Section of Medical Microbiology. | Oct-Dec 2006 | | |
| | Bosa | See nr. 61 | Oct-Dec 2006 | | |
| ⁶³ The instruments for continually improvement (ISO 17025;2005, 4.10) should be described and implemented (e.g. management of complaints, checklists for training of employees, vertical audits and management review). | Bosa | See nr. 61 | Oct-Dec 2006 | | |
| Although Ms Bosa is doing a tremendous good job it would be helpful for her to appoint a independent quality officer for document control and review and follow-up of corrective and preventive actions (metrology and internal auditing is already partly delegated). | | Accepted. New organzational structure provides for a new quality manager. | Oct-Dec 2006 | | |
| Activity 2.6 | Development | and implementation of the quality control system | s and progre | essive detect | on methods |
| (D. Van Soolingen) W. Melchers (06/2006) | - | | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|---------|
| 65 | As stated also in the previous Mission report, the NCR is now establishing the infrastructure for reliable molecular diagnosis. This point will influence all further developments in this area and I therefore consider this aspect as a major break-point for future work. At this point I still highly recommend to bring all molecular diagnostics work in a single unit under the supervision of full-area over-viewing head. This means that both molecular diagnosis and typing should be concentrated in the separate laboratories (clean-lab, clinical lab and analysing lab). In the analysis lab all available and new equipment (PCR, LightCycler, PFGE) should be brought together, accessible for every assay. | Cernicka | Followed. The laboratory for molecular diagnostics was established. Responsible person is Mgr. Cernicka. Recommended design of the laboratory area and the workflow were accepted. | | after reconstruct ion is finished (mid Oct 2006) | |
| | I would recommend Dr. J. Černická to be the Head of this new molecular unit, with full responsibility and power to implement these new technologies. | | Followed. | | April 2006 | |
| | It is recommended that Dr. J. Černická will get extensive training possibilities in this area. Especially an internship in an established laboratory is recommended. By doing so, she can learn all potentials and pitfalls of these technologies in a relative short time period without being confronted with these issues in her own setting from the start. | Cernicka | Accepted. Recommendation was followed to the director of PHA. The result depends on his final decision. | Jan/Feb 2007 planned intersnhip | | |
| 68 | It is recommended to implement RAPD and PFGE as molecular tools for outbreak and epidemiological analysis | Gavacava / | Followed. | | | |
| 69 | It is recommended to incorporate the molecular diagnosis of parvovirus by PCR and enterovirus and meningococci genotypes by real-time PCR (LightCycler) | Bosa /Cernicka | Followed. | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------|----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 70 | As indicated previously, it will be important to establish a Slovakian working group on molecular diagnosis in which open discussions concerning newly acquired experiences will extend the possibilities to introduce these techniques country-wide. | Bosa | Accepted but the realization could be somewhere in the future. | | | |
| 71 | panels to quarantine quality assessments, the NCR can be leading in this issue. | Bosa / Head NRCs | Followed in all NRCs except the NRC for Meningococci. | for NRC Mening. 2007 | other NRC finished | see no. 59 |
| | (W. Waijboer) K. De Schipper-Visser (06/2006) | | | | • | |
| 72 | Make a strict time-schedule up for solving of NCF's before evaluating mission (activity 2.7) in September and make use of mailcontact with expert in preparation for verification visit of SNAS. | Bosa / Pastuchova | Followed. Responsible persons for solving the non-conformities (NCF's) were appointed. | Dec 2006 - Jan 2007 | accepted the proposal | Mid Oct 2006 - planned finish of the reconstuction. Afterwards, delivery and installation of the last lab equipment. Therefore the day of the second inspection of solved NCF's by the SNAS is postponed to Dec 2006. |
| | J. Galama (07/2006) | | | • | • | |
| 73 | Increase attention for clinical virology in the medical curriculum at Universities (Virology, not only within the Science Faculty but also in the Medical Faculty). | | Not to be followed within this project. | | | |
| 74 | Integrate virology in the clinical diagnostic proces by introduction of viral diagnostic units in the Microbiology Departments of University Hospitals and large Teaching Hospitals. | | Not to be followed within this project. | | | |
| 75 | Providing training of medical professionals how to apply viral diagnostics. | | Not to be followed within this project. | | | |
| 76 | Increase number of clinically relevant diagnoses, which will improve sight on the prevalence and incidence of viral infections. | | It is a question of change in the present conception of clinical microbiology. | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realization | Remarks |
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| | A separate recommandation is to organize post-graduate | | Followed. Each NRC is also a training | | continuousl | |
| | training and accreditation of professionals in the 3 Public | | workplace for cooperating laboratories with the | | У | |
| | Health Laboratories, which should, as far as not already | | aim to achieve the standadization of methods. | | | |
| | achieved, become integral part of the quality system. | | Cooperating laboratories are parts of the quality | | | |
| | | | external control. | | | |
| | Activity 2.7 | Final assessm | ent of the implementation of the new quality cont | rol system | | |
| | (W. Waijboer) K. De Schipper-Visser (09/2006) | | | | | |
| 78 | Retrieving Quality Manual from former Quality Manager | | Director PHA SR should try to get this | | | |
| | Bratislava. | | document back from former CC II. | | | |
| 79 | Appoint a pour Quality Managar Protiologia | | Accepted. New organzational structure | Oct-Dec | | |
| | Appoint a new Quality Manager Bratislava. | | provides for a new quality manager. | 2006 | | |
| 80 | Research on a way to implement a Laboratory | | | | | |
| | Information System. | | | | | |
| | | | | | | |

recommendations for future

<u>Action plan</u>

| 4 | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realisation | Remarks |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|-------------------------------------------------------------------|
| (| COMPONENT III | Coordinator: M | r Niks | | | |
| A | Activity 3.2 | Analysis of cur | rent Standard Operating Procedures for externa | al quality as | surance | |
| I | <i>N. Waijboer (04/2005)</i> | | | | | |
| | liagnostic) during the internship of J. Bosa in the Netherlands (OLVG) together with Ms Waijboer (activity 2.3) to look if the system can be improved. Briefing Prof. Niks about the visit to the SKML in the Netherlands as soon as possible after returning to Slovakia (J. Bosa). Start writing the SOP's as soon as possible after the priefing (Prof. Niks). | Bosa Niks Development c | Followed. Dr Bosa visited OLVG with Ms Waijboer during the 3rd week of her three- weeks internship in the Netherlands as part of <u>Act 2.3</u> Followed. Followed. | uality assu | 2005 July 2005 2005 | See programme and mission report of Dr. Bosa in the 2nd QR. |
| (| W. Waijboer) K. De Schipper-Visser (06/2006) after finish project: | quality assurar | | | | |
| E | nclude SOP's in system of document control. Eventhough the EQAS is not accredited it will be good for evaluating and monitoring the EQAS. | Bosa | Followed. | Sept 2006 | | |
| <mark>5</mark> E | Evaluate the effort/benefits of organizing EQAS rounds or two regional PHA. | | Not clear. Probably cannot be solved within the project. | | | |
| ł | Activity 3.4 | Implementation assurance | n and testing in 5 selected pilot workplaces of S | standard O | perating Pro | cedures for external quality |
| (| W. Waijboer) K. De Schipper-Visser (09/2006) | | | | | |
| | Still include SOP's on EQAS in system of document control. | | To be done by Dr. Bosa or somebody who continues her job. | | | |

| | Activity / Recommendations, conclusions | Responsible person | Action / Status | Deadline | Date of realisation | Remarks |
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| | The results of the EQAS PHASK-MMR run No 01/2006 RPHA Banska Bystrica are alarming. The risks of reporting false negative results should be investigated and if necessary appropriate measurements for improvement should be taken. | | The aim of the project was to develope and test EQAS PHASK. Negative results in B.Bystrica confirm effectivity of the system and its usefulness. Correcting action in B.Bystrica, whatever urgent - require more time and cannot be a part of of EQAS testing as proposed by the project. According to me, our task is just to evaluate the run and to report results to the tested laboaratory. | | | |
| 8 | Research on the possibilities to develop a system for EQAS on a national level that's appropriate for public health laboratories as well as private clinics (as recommended by Dr. Niks). | Niks | I don't understand. There are no EQAS requirements shared by both regional public health institutes and clinical microbiology laboratories (private clinics?). EQAS for the two laboratories at regional PHA has shown serious problems in one of them, but EQAS is not the effective way how to solve them. | | | |

recommendations for future