



Mongolian Emergency Service Hospital Hygiene Project

MeshHp.mn

Prof. Dr. W. Popp
Hospital Hygiene
University Clinics of Essen
Germany

Report of the 14th visit to Ulaanbaatar **13 – 20 June, 2015**

Participants:

Prof. Dr. Christoph Jochum, University Clinics Essen
Prof. Dr. Christian Waydhas, University Clinics Essen
Nouzha Maazouz, University Clinics Essen
Prof. Dr. Walter Popp, University Clinics Essen
Arnd Rensmann, Fire Brigade Essen

Hospitals and Institutes

Chingeltej District Health Center: We visited the sterilization unit, the autoclave there is working well. It must be stated that renovation according to Dr. Uka's advice was very well done under given conditions.

The ICU was very full of patients:



Also we saw the lab (like during last visits) and the physiotherapy room.

Bayangol District New Hospital: The new hospital is running and very nice and big – big halls, big rooms, many rooms. So this is really an advantage in comparison to the old hospital. The operating theatre is still not finished and no surgeries are done there. Basically – and for future plannings -: All parts of a hospital should be planned and decided from the very beginning, including water system and ventilation. In endoscopy, we saw a washing machine for endoscopes – but the channels are not washed in it, washing only from outside.



If the channels cannot be cleaned and disinfected in this machine, it might be better to stop working with it and go back to manual cleaning and disinfection – or buy a new real washer-disinfector.

2nd Maternity Hospital: The hospital was renovated in some parts since last time. As always, it is very clean, well organized, clear structures. There are a lot of dispensers and alcoholic handrub is used permanently by the staff. Also dispensers for paper towels can be found everywhere:



A colour system was introduced (like in Essen) showing visitors, patients and staff whether there are some risk patients in the room and whether special measures should be taken.



National Center of Zoonotic Communicable Diseases: We visited this Center for the first time. It is activated if human cases of zoonotic diseases occur. We will think about future cooperation.

UB City Dental Center: Already since last time, there is a clear structure and two rooms for dirty and clean work. Some handling might be improved and a separate report of Nouzha Maazouz will follow.

State First Central Hospital: Prof. Waydhas and Prof. Walter visited the ICU and talked with the head physicians there. Also they visited the very new Emergency Ward and talked with doctors there.

National Traumatology and Orthopaedic Center of Mongolia: Prof. Waydhas, Prof. Popp and Nouzha Maazhouz visited first time this center and talked with Deputy Direktor Prof. Enkhsaikhan and Prof. Otgongerel.

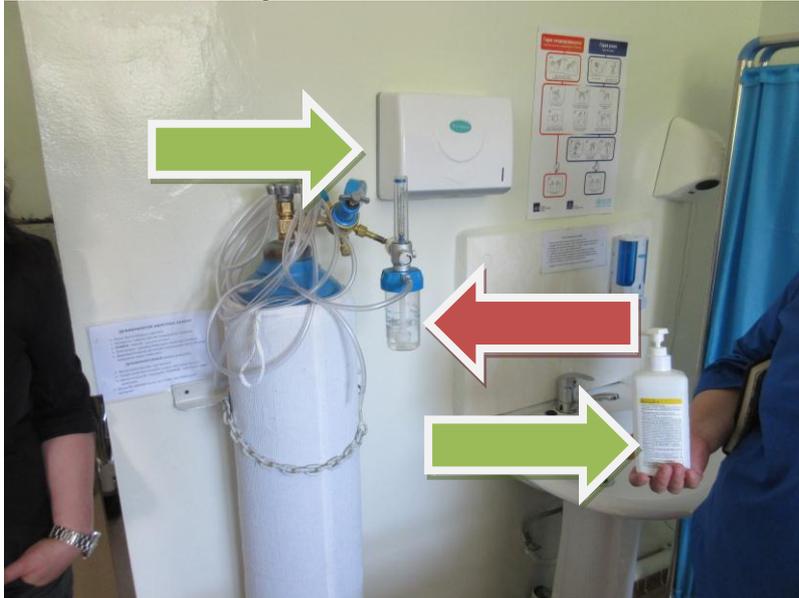
ICU and Emergency Department have modern and good equipment. The hospital is overcrowded and very hectic. Since 1994, there is a good and effective cooperation with French doctors. Unfortunately, there are nearly no dispensers for alcoholic handrub, no fluid soap, no paper towels available.

The CSSD is in the basement and very old fashioned. Wound dressings are prepared by hand – 4 persons doing nothing else the whole day!



It should be thought about whether ready made products or at least some mechanical help might be cheaper.
A new washer-disinfector for instruments is available and shall be installed soon.
There are 2 autoclaves from BMT.
Also we saw the laundry.
Prof. Waydhas will try to build up some cooperation.

State Second Central Hospital: A lot has improved. Now there are a lot of ready made alcoholic handrub bottles and also dispensers for paper towels! On the ICU, handrub bottles are even at every bed!



Regarding the Emergency Ward, the oxygen bottle is used around 3 times a day. We recommend not to use moistening – it might be added later if needed (autoclaved water is available). Air pipes should be changed at least daily.
In CSSD, some handlings are improved:



The dosing unit is now working and using Sekusept Extra. Also endoscopes are reprocessed in CSSD now.

The cleaning of channels in laparoscopic instruments is very simple and not satisfying, the same is for plastic pipes (single use products!):



The autoclaves are cleaned now every day inside and look much better. Again it is planned to start with ethylene oxide sterilisation. To our knowledge, this is forbidden by ministerial order and again we strongly recommend not to use it because of danger and carcinogenicity.

Dr Uyanga presented the results of hepatitis B vaccination in the hospital. 289 (of 397 in total) staff members are vaccinated with 3 (!) shots and 85 % of them have an antibody titer over 100 IU/ml after that. Nearly 15 % of the staff are carriers of hepatitis B and/or C virus, 6 % of B only, 8 % of C only and 0.5 % of both.

City Medical Emergency Center

Arnd Rensmann performed a full day training in the City Medical Emergency Center every day.

Arnd Rensmann and Prof. Waydhas drove half a day on an emergency car.

Meetings

There was a meeting with Ambassador Mr Thiedemann in the German Embassy.

Prof. Jochum was most of the days with Prof. Davaadorj, especially took over tasks and presentations in the Gastroenterology Week there.

Prof. Walter and Prof. Waydhas had a meeting with the PIU group of Health V project, also with Claude Bodart (ADB) and the Canadian consultant group. Further tasks of the German contribution were discussed and decided.

Symposium

Also this year, there was a Hygiene Symposium with a full room and many participants.

INFECTION PREVENTION AND CONTROL III SYMPOSIUM 2015

Time	Title	Presenter
09:00-09:30	Opening	Director of UB Health Department Professor Walter Popp, Essen university hospital
	Greeting	Ts. Enkhtsengel Vice Mayor of Social development <i>Affairs</i> of UB City.
	Speech	L. Zendmaa Director, Division of medical care service, secretary of Health workers ethic Committee.
09:30-09:45	Infection Prevention Control and nosocomial infection in Mongolia	Dr. Tsolmon /NCCD , HAIU/
09:45-10:00	Global Fund contribution to Infection Prevention Control	T. Baigal /GFATM /
10:00-10:15	DAAD-PAGEL Joint Project	Dr. Ch.Battogtokh / PAGEL /
10:15-10:45	Meshhp project/ Driver Training Demonstration	Kh Mungunkharaa, A. Rensmann /Fire brigade Essen, Germany, Medical Emergency Service UB/
10:45-11:00	Coffee break	
11:00-11:20	Infection Prevention Control of Intermed hospital	Dr. Bat-Erdene / Intermed Hospital/
11:20-11:50	Basic technical situation in Mongolian hospitals	Doc. S.Kannenber /MNUMS , Hamburg University of Applied Sciences, Germany /
11:50-12:10	Health Sector Development Programme-5 project and Infection Prevention Control	Dr. Clod Bodart /ADB/
12:10-12:40	Reprocessing of flexible endoscopes	Prof. Popp /University Clinics of Essen, Germany/
12:40-13:10	Enteropathogenic E. Coli: EPEC, EHEC and relatives	Prof. K. Pfeffer /Heinrich Heine University Düsseldorf, Germany/
13:10-14:10	Lunch	
14:10-14:40	Wrapping of sterile products	N. Maazouz /University Clinics of Essen, Germany/
14:40-15:00	Biological control study for sterilization autoclaves in some hospitals	Dr. Ts. Gantumur /MNUMS/Medclean LLC/
15:00-15:20	Study for HBV vaccine-immune status among medical workers of hospital No.2	Ts. Uyanga /State Second Central Hospital/
15:20-15:50	Hepatitis vaccination and therapy, Hepatitis carriers among medical workers	Dr. Jochum /University Clinics of Essen, Germany/
15:50-16:10	Coffee break	
16:10-16:40	The German Rescue System with a Focus on Trauma	Prof. Waydhas /University Clinics of Essen, Germany/
16:40-17:00	Dissemination of OXA-carbapenemase-producing <i>Acinetobacter baumannii</i> ST195 and ST642 in a Mongolian hospital.	Dr. T.Khosbayar /MNUMS/
17:00-17:20	Discussion	
17:20-17:30	Closing	Prof. Popp /University Clinics of Essen, Germany/

A very special highlight was the presentation of the emergency drivers what they learned from Essen Fire Brigade:



Social Life

On the first weekend we had a nice stay in a ger camp in Terelj National Park.



On one evening, we visited Mongolian Traditional Folk Songs and Dance Concert which was very interesting especially for those who were first time in UB.

Every evening we had nice dinners including Karaoke on some days.

Again we were invited by Dr. Uka to listen to his band.

Conclusions and next steps

It can be seen in State Second Central Hospital and in 2nd Maternity Hospital that improvements in hand hygiene (dispensers, lot of ready made alcoholic handrub in single use bottles, paper towels instead of textile ones) are possible - even under the given budgets. After five years of our project, we finally see real improvements and growing standards in these hospitals regarding that issue!

It seems that severeness of diseases in inpatients is growing in the last years. This implies that more bedpans and urine bottles are needed for patients who cannot go

out of bed. The actual situation of cleaning and disinfecting these products is very bad, it is done by hand in bathrooms, toilets or (best case) in sinks:



There must be a decision to buy and install more thermal disinfectors (like from Meiko) for these devices.

We got to know that, from 2012 to 2013, there were 195 patients with an OXA-carbapenemase-producing *Acinetobacter baumannii* ST195 and ST642 in one big Mongolian hospital, mainly on ICU. We presume – given the situation in hospitals in general and on the respective ICU we know - that this terrible outbreak is not really under control and we are wondering why we were not told about that when we were in this hospital. There are big efforts necessary to stop this outbreak which might spread (if not already happened) to other hospitals in UB. This is an emergency case which might call for very strict measures (isolation, protecting clothes), regular screening in the respective hospital, very strict disinfection policy and so on.

We will come again in September and Nouzha Maazouz will spend some days in CSSD of Hospital No 2.

The website of MeshHp project will be reorganised by Khandaa.

A group of drivers from Emergency service will come to Essen in second half of October 2015.

A group of decision makers and heads from hospitals who have never been in Essen will come for some days in December 2015.

Another basic group from MeshHp pilot units might come in December 2015, too. This has to be planned more in detail on both sides (who should come first time, what should be shown to those who have already been in Essen ...?).

Walter Popp, 28 June 2015