

Project Follow Up Medication Safety Mongolian Students

Report /professionals/

Goals:

- stimulate and motivate young Mongolian pharmacy professionals about the Dutch approach on Medication Safety
- let them actually see/experience how Medication Safety is performed in a public pharmacy and a hospital pharmacy; prescription wise as well as medication review
- let them understand the underlying concepts and technologies
- let them understand concepts and technologies concerning pro-active Medication Safety
- let them understand the professional attitude and knowledge level necessary to perform the task of a Medication Safety oriented professional
- let them work on plans/ideas how the acquired insights& knowledge can be put into action in Mongolia

Especial thanks to:

1. Farmacie Mondiaal Foundation – Richard Van Slobbe, Prem Dihal, Raymond Brunink, Thijs Balk
2. Association of Mongolian Pharmacy Professionals – Zuzaan Zulzaga, Munkhzul Mishig / www.pharmacymn.org /
3. Utrecht University – Lenneke Minjon, Pharmacy Department / <https://www.uu.nl> /
4. Healthbase – Chris Tromp, Sander Borgsteede / <https://www.healthbase.nl> /
5. Jeroen Bosch Pharmacy – Poels-Janssen, Brenninkmeijer-de Groot, Dan / <https://www.jeroenboschapotheek.nl> /
6. Instellings Apotheek – / <http://www.instellingsapotheek.nl> /
7. Brocacef Zeikenhuis Farmacie – Josca Denissen / <https://www.brocacefziekenhuisfarmacie.nl> /

for organizing and warm receipt, explaining, and giving us opportunity to see health safety, health organization, structure by own eyes. We hope that further this activity would be expanded for Mongolian professionals and students.

In addition, we are grateful for organizing social programs, sightseeing, such as windmill in Kinderdijk, cruise ship in Rotterdam, Den Bosch city, Castle in which lived Napoleon few weeks, and to go over Dutch history.

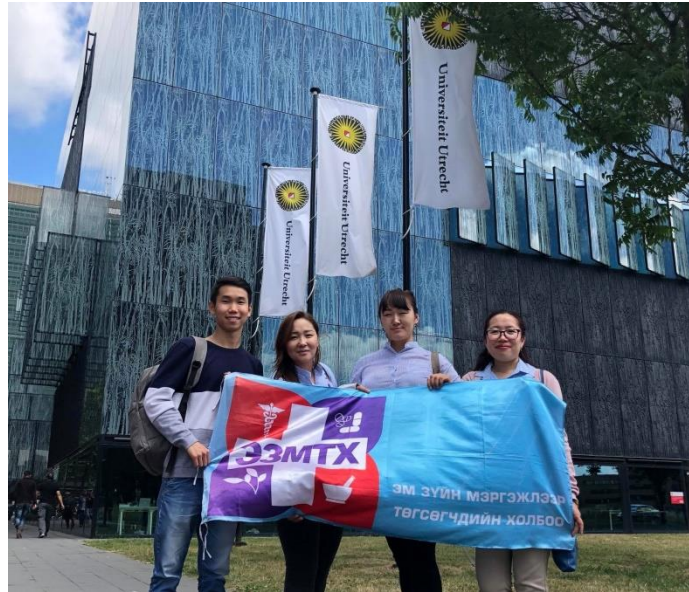
From students:

Those days were valuable to understand our professional values and ethics.

We hope that, further this program would be continue and extend, to widen Mongolian students aspects.

We will actualize that we learned to our country's development of pharmaceutical field.

Thanks for all of Farmacie Mondiaal.



Day 1. Monday 25-06-2018

Location: Utrecht University (UU), David de Wied building, Universiteitsweg 99, 3584 CG Utrecht

By: Lenneke Minjon

UU: Education

- ✓ curriculum pharmacy
- ✓ medication safety / the Dutch approach on Medication Safety
- ✓ training and understand the professional attitude and knowledge level necessary to perform the task of a Medication Safety oriented professional

Teachers prepare cases students evaluate these cases in classroom, using complete program for training similar to real programs. If in prescription, have some conflict or medication error, students call to doctor/teacher assistant for conversation, to change medication, dose, clarification etc.

After that, student writes in the prescription what he do, and what arrangement he/she made. Teachers evaluates prescriptions.



Day 2. Tuesday 26-06-2018

Location: Healthbase, Papiermolen 36, 3994 DK Houten

By: Chris Tromp, Sander Borgsteede

HB: Medication safety:

- ✓ understand the underlying concepts and technologies
- ✓ understand the professional attitude and knowledge level necessary to perform the task of a Medication Safety oriented professional

Healthbase experts develops complex information and data, which is evidence-based, independent and up-to date.

Professionals reviews literatures, scientific journals, books and professional advice of product information, and collects information from many sources, external datas, such as logistic information about medication, wholesalers, data providers.

Editorial committee meets 5 times in one year and discusses what is first important? And what we do? etc. In committee involves pharmacists, GP's and technician.

Healthbase provides following datas:

1. logistic product
2. medicinal product
3. pharmaceutical product

They funding from pharmacies and books.



Day 3. Wednesday 27-06-2018

Location: Jeroen Bosch Pharmacy, Den Bosch

By: Thijs Balk

Jeroen Bosch:

- ✓ see/experience how Medication Safety is performed in a public pharmacy and a hospital pharmacy; prescription wise as well as medication review
- ✓ understand concepts and technologies concerning pro-active Medication Safety

Outpatient pharmacy:

Outpatient pharmacy is serves to patients who going out from hospitals.

Every day they receives electronic prescription from doctors and assistants prepares medicines by prescription, using program, which gives information about patient, medicine, dose, interaction, medication error etc. If there is any error, could not handle by assistant, assistant asks from pharmacist, what he/she should do.

In prescription should be five signatures (A, P, B, C, A).

A – signature who receives prescription

P – profile, signature who checked profile

B – signs who inserts prescription to program

C – signs who checks prepared medicine

A – signs who gives medicines to patient

At evening, all prescriptions should be checked by pharmacist.

Inpatient pharmacy:

Doctors and clinical pharmacists meets three times a week, and discusses what they should do, etc.

Pharmacists carefully checks each patient, what they taken at home /medicine/, health condition, renal function etc.

At hospital pharmacy assistant connects friendly with patients and gives them information about medicine, how they should take them etc. and prepares and gives medicines, exactly as mentioned in program.

In inventory, they stores medicines chaotically, in order to avoid from any mistake, such as sound like, or look like. And for collecting medicines they use barcodes.



Day 4. Thursday 28-06-2018

Location: Instellings Apotheek, Da Vincilaan 49, Ede

By: Richard Van Slobbe, Raymond Brunink

Instellings Aphotheek:

- ✓ understand the professional attitude and knowledge level necessary to perform the task of a Medication Safety oriented professional
- ✓ safety on delivery/administration

Instellings Aphotheek delivers medicines for houses, nursing homes. They receive prescriptions electronically and checks prescription, dose, and medication error etc., after that they send medicine order to wholesaling company, by using several programs.

When they receive medicines, they double-check medicines with prescription and send them to houses. They use an online program, that shows to whom, which medicine, when, who gave etc. Doctors, pharmacists and healthcare professionals all can use this program.



Day 5. Friday 29-06-2018

Location: Brocacef Zeikenhuis Farmacie, Sportparkweg 12, Maarsse

By: Josca Denissen

BZF:

- ✓ pill pack/baxtering and delivery/administration
- ✓ understand the professional attitude and knowledge level necessary to perform the task of a Medication Safety oriented professional
- ✓ Logistics

Prepares medicines for care institutions and nursery homes (35) and for 25,000 patients. Until afternoon, they receive orders from them and prepare medicines using pill packing/baxter system.

They have health and safety inspection 1-2 times in a year.

They fulfill GMP standard and other legislation, regulations.

Their responsibilities are delivering, advice and supervise professionals.

They use G-standard and formularies for each action.

In Brocacef, pill is packed automatically and after packed and rolled medicines, professional's checks computer for error. After that, two professional's checks packed medicines manually and finally it goes to other personnel for labeling and takes to wareroom.

From wareroom, medicines distributes to nursing homes and care institutions.

Weekly, pharmacists are meets with professionals and pharmacists from care institutions and give advices and supervise them.

In addition, they gives medicine advices remotely, by phone, by mail etc.



Conclusion

- The Netherlands and Mongolian health systems have huge differences; especially Mongolian pharmaceutical field dropped behind almost 20-30 years.
- To strengthen pharmaceutical field, we should start from small things, e.g quality, training, collect database
- Further, influence training programs at university in bachelor degree, regarding to medication safety, to do internships at hospital, community pharmacy, wholesaler etc. at least 6 months
- Further, develop database, which includes medication information, safety, interaction etc. in Mongolian, if possible translate from English and into English (for sharing with other countries). Involve into, if possible, all pharmacies and hospitals and students for collecting data.
- Further, develop programs similar to Pharmacom.

Planned activities:

No	Job type	Where	For whom	Date	Detail	Responsible
1	Prepare report	MNUMS Pharmacy	Professionals Students	Sep-Oct	Prepare presentation Give information	Delgermaa Bilguun Munkhnasan Solongo
2	Prepare video	MNUMS Pharmacy	Professionals Students Patients	Oct-Dec	- Prepare informative video series about prescription medicines - Spread video nationwide	Delgermaa Bilguun Munkhnasan Solongo
3	Organize English club	MNUMS	Students	Whole year	Improve students language proficiency	Delgermaa Bilguun
4	Prepare English class	Pharmacy	Professionals	Whole year	Improve professional language proficiency	Delgermaa Bilguun Munkhnasan Munkhzul
5	Improve quality in pharmacy	Pharmacy	Professionals	Whole year	- Prepare documentation for all activity in pharmacy - Develop SOPs - Contribute to implement SOPs - Take advices from FM and Prem	Munkhnasan Solongo Prem
6	Collect data /medicine/	MNUMS AMPP Pharmacy	Professionals Teacher Students	Whole year	- Collect data from Medscape, drugs.com etc - Drug-drug interaction - Drug-disease interaction - Drug-food interaction - From Healthbase	Bilguun Solongo Delgermaa Munkhnasan
7	Review data	MNUMS AMPP	Professionals Teacher Students	Whole year	- Review data and approve	Munkhnasan Delgermaa
8	Release handbook	MNUMS AMPP	Professionals Teacher Students	Whole year	- Combine all data and release	Munkhnasan Delgermaa
9	Prepare project	AMPP	Health safety Program developing	2019	- Write project proposal to gain foundation for program development	Zuzaan Munkhnasan Delgermaa
10	Develop program	AMPP	Professionals	2019- 2020	- IT engineer and professionals develops special program for health safety - FM	Delgermaa Bilguun Munkhnasan Solongo