

# Formation des pharmaciens en établissement de santé : modèle québécois

## Training of hospital pharmacists in Quebec

69<sup>th</sup> Annual General Meeting of AFPC

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Professeure agrégée

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6 juin 2012

# History

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- In province of Quebec, hospital-based pharmacists have been trained in a formal university program for more than thirty years.
- In Québec City, hospital-based pharmacy practice was born during the sixties at the Hôpital du St-Sacrement.
- In 1962, The 'Conseil de l'Université Laval' was authorizing the creation of a formal hospital pharmacy cursus leading to a certification.

# History

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- In 1980, this hospital pharmacy certification was officially recognized as a graduate program (2<sup>nd</sup> cycle).
- In September 1989, it became hospital pharmacy 2<sup>nd</sup> cycle Diploma.
- Finally, in April 1992, The Diploma became the hospital pharmacy master program, leading to a Master of Sciences (M.Sc.) degree.

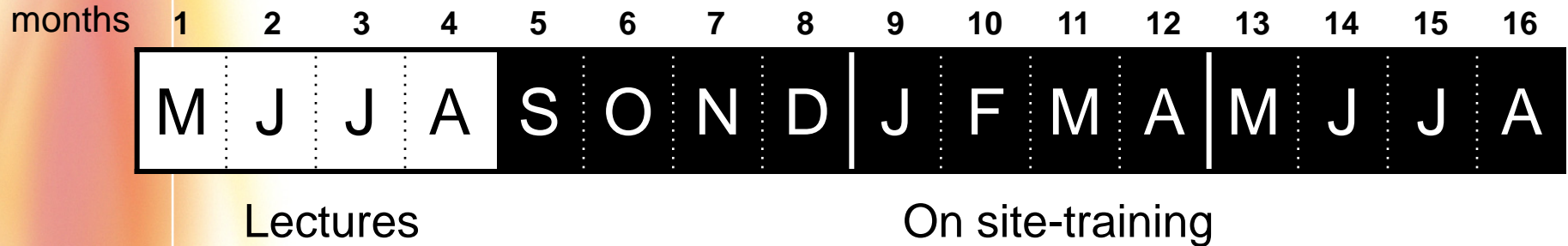
# History

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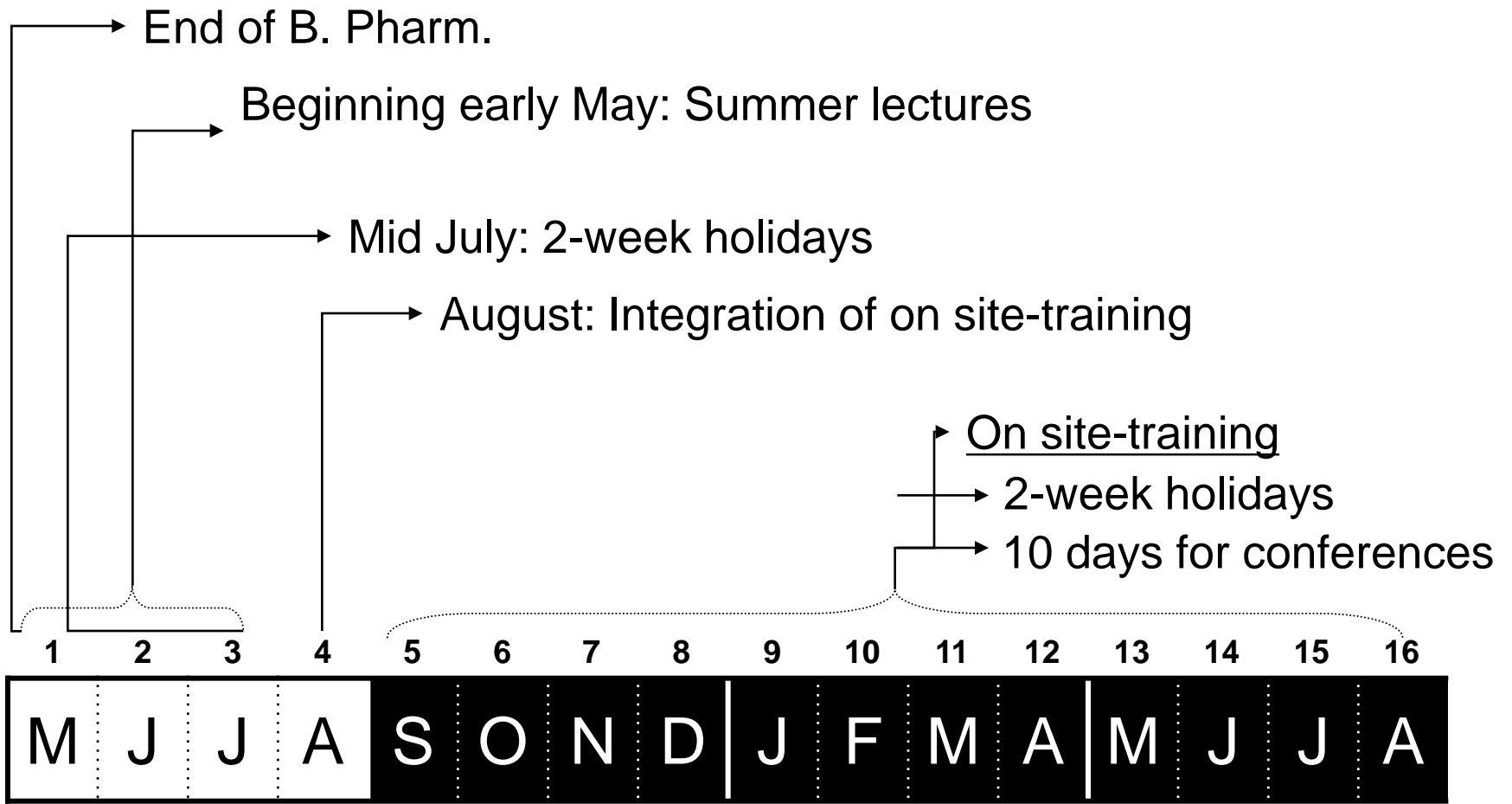
- Since June 1996, the hospital pharmacy M.Sc. program is certified by the Canadian Hospital Pharmacy Residency Board of the Canadian Society of Hospital Pharmacists.
- This presentation will focus on the hospital pharmacy program of the Faculté de pharmacie de l'Université Laval.

# Summary

- Duration of 16 months (mid-May to mid-August)
- 48 credits over 4 sessions:
  - 24 credits for lectures and classes
  - 18 credits for on-site training
  - 6 credits for the Master thesis '*l'essai*'



# Full time



# Courses

Name	Sessions	Credits
Thérapeutiques des urgences	Summer	4
Pharmacocinétique clinique	Summer	2
Nutrition entérale et parentérale	Summer	2
Maladies infectieuses	Smmer	2
Protocole de recherche	Summer/Fall	3
Pharmacothérapie du cancer	Fall	2
Étude de cas en cancérothérapie	Fall/Winter	1
Gestion en pharmacie d'hôpital	Fall/Winter	3
Information sur les médicaments	S/F/W	2
Activité de communications	Fall/Winter	3
Essai	Winter/Summer	6



Clinical



Research



PharmAd



Communication

# Courses

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## « Activités de communication »:

7 activities during the residency:

- 3 case presentations
- 1 pharmacotherapy presentation
- 1 lecture club
- 1 peer-reviewed written (bulletin, summary, files to be presented at the pharmacology committee, etc...)
- 1 selected activity among the above mentioned



# Courses

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## « Essai »

According to the article 154 of the « Règlement des études de l'Université Laval », the 'essai' is a written dissertation that is usually part of a master program that does not formally require the redaction of a thesis. It allows the student to address issues related to his study project and to present his own state of knowledge in a given area of expertise and to systematically treat of a specific subject related to this area.

# Courses

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## « Essai »

- Clinical projects submitted by hospital pharmacists
- Retrospective or prospective
- Faculty members approve the projects
- Supervised by: hospital pharmacists and professors
  
- Activities:
  - Writing protocol (Fall)
  - Collecting data (Winter)
  - Analysing data (Winter/Spring)
  - Oral presentation (Spring)
  - Writing thesis dissertation (Summer)

# Clinical Training

## Affiliated Hospitals

### **C.H.U.Q.**

- Hôtel-Dieu de Québec
- C.H.U.L.
- St-François d'Assise

**Institut universitaire de  
cardiologie et de  
pneumologie de Québec  
(I.U.C.P.Q.)**

### **C.H.A.**

- Enfant-Jésus
- St-Sacrement

**Hôtel-Dieu de Lévis  
Rimouski**

# Clinical Training

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## a) Integration of on site-training:

- *Objective:* To become familiar with the milieu
- *Duration:* 10 days
- *Credits:* 2

# Clinical Training

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## b) On-site training:

- **General objective:**
  - To develop clinical abilities necessary to the Hospital pharmacy practice
- **Specific Objectives :**
  - Specific to each different (Training I to VIII)
  - Duration: 1 month
  - Credits: 2

# Clinical Training

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## Training I to VIII:

- 4 mandatory rotations
  - 4 optional rotations
- \* 2 rotations must be done in another milieu

# Clinical Training

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2 rotations must be done in another milieu:

- Affiliated hospitals (8)
- Institut en santé mentale de Québec
- Maison Michel-Sarrazin
- CSSS de la Vieille-Capitale
- CSSS du Grand-littoral
- Hôpital Jeffery Hale

# Clinical Training

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## Outside Québec City training:

- Sept-Îles
- Îles-de-la-Madeleine
- Sherbrooke
- Alma
- Shawinigan
- Val-d'Or
- Cowansville
- Chicoutimi



# Clinical Training

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## 4 Mandatory rotations:

- Oncology
- Intensive care
- Two among these:
  - Cardiology
  - Internal Medicine OR Geriatrics
  - Emergency

# Clinical Training

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## Optional Rotation (4 among these):

- Psychiatry
- Pediatrics - Neonatology
- Palliative care in oncology
- Neurology
- Surgery
- Vascular medicine
- Hemodynamics – Coronary units
- CHF or RI Clinics – Dialysis
- Nephrology; Transplantation
- Family medicine units
- etc.

# On-site Training

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## Prescription validation:

During the residency:

- 1 day/week
- Under supervision until pharmacy practice license obtained

# M.S.S.S. salary awards

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M.S.S.S. salary awards available for 2011-2012:  
35

Treatment:

- Stipend: \$40,000
- Tax-free

Engagement:

- Signed Formulary
- To serve a minimum of 2 years within the Quebec Health Network (Réseau de la Santé et des Services Sociaux)

# Graduation

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After 16 months of lectures and on-site training:

Master of Sciences in Hospital Pharmacy

M.Sc.

# Future

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- Name of our M.Sc. program will be changing:

Master in Advanced Pharmacotherapy

- Within the next 3 years: it will become a competency-based program

# Future

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- We will work with the same 5 competencies of our Pharm.D. program:
  - Implementation of medication therapy
  - Dissemination of pharmaceutical knowledge
  - Handling medication
  - Managing pharmacy operation
  - Commitment to professionalism

# Future

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- Levels in Pharm.D. program:
  - Beginner
  - Novice
  - Intermediate
  - Competent
- Expected levels in M.Sc. program:
  - **Master**
  - **Expert**



# Team

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**Director:** Chantale Simard, B.Pharm. M.Sc. (Hosp), Ph.D.

**Training Coordinator:** Céline Brunelle, B.Pharm., M.Sc. (Hosp)

**Training Preceptor:** Jean-Pierre Bernier, B.Pharm., M.Sc. (Hosp)

**Conseillère à la gestion des études 2e et 3e cycles:** Lysanne Tanguay

**Agente de gestion des études:** Sylvie Lacasse

**Agente de secrétariat:** Annick Bouchard

Question?

