

# Estimated overtime for treatment of ancillary loan and their implantable medical devices

O.AIMER<sup>(1)</sup>, K.HAMAMI<sup>(2)</sup>, C.CHION<sup>(1)</sup>, E.MOREL<sup>(1)</sup>, E.FEKETE<sup>(3)</sup>, M.VILLART<sup>(4)</sup>, M.FARCY-AFIF<sup>(1)</sup>

- (1) Stérilisation Centrale, PUI, Hôpital Raymond POINCARÉ (AP-HP) 104 boulevard R.POINCARÉ, 92380 Garches, France, Mail : [omar.aimer@aphp.fr](mailto:omar.aimer@aphp.fr)
- (2) Unité de dispositifs médicaux stériles, PUI, Hôpital Raymond POINCARÉ (AP-HP) 104 boulevard R.POINCARÉ, 92380 Garches, France
- (3) Bloc opératoire, Hôpital Raymond POINCARÉ (AP-HP) 104 boulevard R.POINCARÉ, 92380 Garches, France
- (4) PUI, Hôpital Raymond POINCARÉ (AP-HP) 104 boulevard R.POINCARÉ, 92380 Garches, France

## Introduction

The varied activity of the orthopedic surgical operating theater for the replacement of implantable medical devices (IMD) requires the use of specific equipment for each type of prosthesis. The number of temporary loan ancillaries treated by the central sterile services department (CSSD) (311 ancillaries in 2014) and, in parallel, IMD management by the unit of sterile medical devices (SMDU) is increasing (+ 32% on the first quarter of 2015 compared to the same period in 2014).

## Objectives

The organization of the circuit of ancillary loan and IMD involves coordinating three teams: SMDU, CSSD and the operating theater. Given the regulatory specificities, their financial and functional circuits, an estimate of overtime related to the management of these devices compared to the same devices in permanent deposit has been made.

## Material and method

A follow-up form of ancillary loan and IMD was developed. It includes 26 criteria (8 for SMDU, 8 for CSSD and 10 for operating theater). It was made available to three units during April and May 2015. The collection is provided by nurses, pharmacy technicians, nursing staff managers and pharmacists. Each one noted the time dedicated to each stage of the circuit: from reception of the ancillary or IMD until his return and regularization.

ETUDE SUR LE CIRCUIT DES ANCIILLAIRES ET DAMEN PRETS :  
Mesure des surtemps / circuit des dépôts permanents

DATE: \_\_\_\_\_ ANCIILLAIRE: \_\_\_\_\_

LIBRÉ	ETAPES	TEMPS EN MINUTES	PERSONNEL
BLOC	COMMANDE ANCIILLAIRE ET DAM	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	RECEPTION ET CONTRÔLE ANCIILLAIRE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	FECHERIE NERVEUSE A LA STERILISATION	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	RECEPTION/CONTRÔLE DES DAM	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	CONTRÔLE DES ANCIILLAIRES/CONTROLE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	RECEPTION/CONTRÔLE FICHE NERVEUSE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	TRACABULÉ RECEPTION FICHE NERVEUSE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	CREATION NET D'OPTIM	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	RECEPTION INFORMATIQUE OPTIM	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	INVENTAIRE ANCIILLAIRE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	RECEPTION/CONTRÔLE LANCHEE PHOTO	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
STERILISATION	RECEPTION/CONTRÔLE AU DEPOT AVEC INVENTAIRE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	FAI FOSÉ RAVANT AU UNITÉ DAM	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	CONTRÔLE ANCIILLAIRE AVANT DEPOT	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	FICHE NERVEUSE COMPLÉTÉE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	FICHE NERVEUSE COMPLÉTÉE FICHE A LAUSSE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	REMBALAGE AVANT DEPOT	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH
BLOC	REPERE FAUCILLE LAUSSE	<input type="checkbox"/> 0 <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 <input type="checkbox"/> 40 <input type="checkbox"/> 50	<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH <input type="checkbox"/> INF PH PH

REMARQUE: LA RECEPTION ET LE UTILISATION :  0  10  20  30  40  50

UTILISATION DU NET :  0  10  20  30  40  50

Fiche de suivi (Date: \_\_\_\_\_)

ETUDE SUR LE CIRCUIT DES ANCIILLAIRES ET DAMEN PRETS :  
Mesure des surtemps / circuit des dépôts permanents

DATE: \_\_\_\_\_ DAM: \_\_\_\_\_

INF  PH  INF PH  INF PH PH  INF PH PH PH  INF PH PH PH PH

LIBRÉ	ETAPES	TEMPS EN MINUTES	PERSONNEL
UNITÉ DAM	CONTRÔLE DES DAM LANCHEE NET		<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH
UNITÉ DAM	LIVRAISON AU BLOC DES ANCIILLAIRES ET DAM		<input type="checkbox"/> INF <input type="checkbox"/> PH <input type="checkbox"/> INF PH
UNITÉ DAM	RELEVATION MARGINALÉ DE ETUDES DAM		PHARMACIEN
UNITÉ DAM	CREATION DES DAM DANS SAP (INFORMATIQUE)		PHARMACIEN
UNITÉ DAM	CREATION DES DAM DANS PHEDRA (INFORMATIQUE)		PHARMACIEN
UNITÉ DAM	ENTREE EN STOCK DES DAM DANS PHEDRA		PHARMACIEN
UNITÉ DAM	POSE DES DAM DANS PHEDRA		PHARMACIEN
UNITÉ DAM	TRANSMISSION FICHE DE TRACABILITÉ FAUCILLE AU SECRETARIAT BLOC OPERATOIRE		PHARMACIEN

## Results

In total, 31 of ancillary loan follow-up forms with 20 of IMD were filled. Their analysis showed that the average duration of the treatment of ancillary loan is 84 min for operating theater, 43 min for the CSSD and 28 min for SMDU. Over the 155 minutes of overtime by deposit, 72 % (111 minutes) concerns of the working time of the management team (nursing staff managers and

## Discussion

If we make an extrapolation of time taken for the treatment of 311 deposits in 2014, we obtain overtimes of 435 h for the operating theater, 222 h for the CSSD and 145 h for the SMDU: approximately 577 h of management team and 225 h of nurse, pharmacy technician and agent.

## Conclusion

The treatment and management of ancillary loan and IMD compared with those in deposit requires important additional time that may be provided by qualified personnel. The surplus of activity generated by the treatment of the deposits (specific of the surgical activity of orthopedics) must be recognized. The number of deposits treated per year has to appear as an important criterion of measure of the activity.

