Welcome to the STABILIS users for this twelth Newsletter!

SUMMARY

News from the ESCP-ESCP meeting in Lyon – France – October 2010

News from the APFH Congress Congress, Estoril, Portugal – October 2010

New monographs
Polymyxin B, Doxofylline,

Monographs removed from Stabilis
Dolasetron

New references from international publications in Stabilis
Cisplatin, Docetaxel, Ketorolac and Tramadol, Levothyroxine, Ondansetron and Dexamethasone, Oxytocin, Temocilline, New references of incompatibility

New Trissel’s handbook

New Documents on Infostab website
In Publication and Stability and compatibilities

Statistics
Focus on Latvia and Brazil
Stability of Taxotere® 1-vial (20mg/ml) Infusion Solution Following Refrigerated Storage
S. Acott, M. Hart
The authors, from Sanofi-Aventis UK, demonstrated that the new Taxotere 1-vial formulation (20 mg/ml) diluted in 0.9% sodium chloride (200 mg in 250 mL) is stable for 7 days under refrigeration at 5°C with a subsequent storage for 24 hours at approximately 20°C.

Stability of amiodarone in capsules for paediatric patients
L. Rughoo, J. Vigneron, N. Vérán, H. Zénier, N. Sobalak, I. May, B. Demoré
The authors have studied by HPLC the stability of amiodarone at different dosages (10, 60, 100 mg), in capsules for paediatric patients stored in three primary packaging at ambient temperature and under dark conditions. Amiodarone paediatric capsules were stable for six months, with no influence of primary packaging.

Stability and compatibility of paracetamol and ketoprofen in a fail-safe IV administration set
L. Bernard, V. Sautou, D. Bourdeaux, J. Chopineau
The authors have studied the stability of paracetamol 10 mg/mL and ketoprofen 1 mg/mL as individual and successive infusions with the iv administration set Intrafix Safe-set (B.Braun Medical) under ambient light and temperature. Repeated individual perfusions of paracetamol or ketoprofen are possible with this iv administration set until 24 hours.

Stability study of a topical cidofovir cream
L. Havard, R. Linossier, A. Bernard, C. Mequinion, M. Bapiste, P. Prognon
The authors have developed a cidofovir-based cream for HIV infected patients with herpes genital warts resisting to the usual treatments. This topical cream has been shown to be stable at least 15 days under stressed conditions (high T°, acidic/basic/oxidative environment) and more than 1 month in normal conditions.
The 7th National Congress of the Portuguese Society of Hospital Pharmacists took place in Estoril in November 2010.

One poster presented the stability of suspension of hydrochlorothiazide / spironolactone.

The abstract can be downloaded at this address: http://www.apfh.pt/scid/webApfh/defaultScientificArticleViewOne.asp?realizationId=37&scientificArticleID=269&categoryID=803

### NEW MONOGRAPHS

#### Polymyxin B

Polymyxin B is a lipopeptide antibiotic increasingly used as a last therapeutic option due to the emergence of multidrug-resistant bacteria. Developed in the 1950s, polymyxin B was one of two polymyxin antibiotics that showed great promise as effective therapy for *Pseudomonas aeruginosa* and *Acinetobacter baumanii* infections. Intravenous polymyxin B has been used for the treatment of critically ill patients with various nosocomial infections.

Polymyxin B was stable for at least one day when stored at 4°C or 25°C in infusion bags containing 0.9% sodium chloride injection.


#### Doxofylline

Doxofylline, a new methylxanthine derivative, is a novel bronchodilator with similar efficacy but better tolerability profile than theophylline. Doxofylline and phentolamine mesilate mixed in both 5% dextrose and 0.9% sodium chloride injection in 250 ml multilayer polyolefin bags, at concentrations of 0.74 mg/ml and 36.9 μg/ml, respectively, were stable for up to 24h at 20-25°C.


### MONOGRAPH REMOVED FROM STABILIS

#### Dolasetron
NEW REFERENCES FROM INTERNATIONAL PUBLICATIONS

**Cisplatin**
Cisplatin infusions at concentrations ranging from 0.1 – 0.4 mg/ml in 500 ml PVC bags containing either 0.9% sodium chloride or 0.9% sodium chloride + 20 mmol KCl + 8 mmol MgSO4 were physically and chemically stable for up to 28 days at 25°C, when protected from light.  
*EJOP 2010; 4, 3: 11-13.*

**Docetaxel**
Docetaxel 0.8 mg/ml in 0.9% sodium chloride in polyethylene bags was stable for 7 days at 5°C, when protected from light.  
*EJHP 2010; 16, 5: 26-28.*

**Ketorolac and Tramadol**
Ketorolac mixed with Tramadol was stable for up to 7 days at 25°C when stored in the light.  
*Acta Anaesthesiol Taiwan 2010; 48, 3: 117-121.*

**Levothyroxine**
Levothyroxine solutions (0.4 μg/ml and 2 μg/ml) prepared extemporaneously in 0.9% sodium chloride 50 ml minibags and stored at room temperature, can be expected to be stable for 16 h and 6 h respectively, when stored in the light and for 18 h and 12 h when stored in the dark.  

**Ondansetron and Dexamethasone**
Ondansetron and dexamethasone sodium phosphate mixed in 5% dextrose injection in polyethylene bags, at concentrations of 0.09 mg/ml and 0.09 mg/ml respectively, were stable for up to 90 days at -20°C or 2-8°C.  
*Ann Pharmacotherapy 2011; 45: 130-131.*

**Oxytocin**
Oxytocin at two concentrations (0.06 and 0.02 UI/ml) is stable at room temperature and at 4°C for a one month period in Ringer’s lactate solution.  
*J Liquid Chrom Rel Technol 2006; 29, 16: 2353-2365.*

**Temocilline**
Temocilline 10 or 20 mg/ml in water for injection in elastomeric pumps was stable for 28 days at 25°C  

**New references of incompatibilities**
- Morphine hydrochloride with ketorolac tromethamine (*Pain Clinic 1999; 11:213-216.*)  
- Remifentanil with furosemide (*16th JFSPH, Sion, 18-19 November 2010*)  
- Furosemide with potassium phosphate (*16th JFSPH, Sion, 18-19 November 2010*)

NEW DOCUMENTS ON INFOSTAB WEBSITE

*See in « Publications » and « Stability and compatibilities »*

1) **Bertrand B, Bekhtari K, Poujol S, Pinguet F.**  
Physical and chemical stability of 1-vial docetaxel in hospital pharmacy practice: an experimental study.  
*Department of pharmacy and pharmacology - Val d’Aurelle Cancer Center, Montpellier, France*  
Poster presented at the last ASHP Midyear Congress, December 2010.

2) **Chaussard M, Bouche V, Labat L, Brandely ML, Batista R, Chast F.**  
Stability of tetracaine eye-drops  
*Pharmacy Department, University Hospital Hôtel-Dieu Paris, France*  
Poster presented at the last SNPHPU Congress France September 2011

3) **Bonville E, Sautou V, Boudeaux D, Bernard L, Chopineau J.**  
*Laboratory of Clinical Pharmacy and Biotechnics, Faculty of Pharmacy, Clermont-Ferrand, France*  
Poster presented during the last ESCP Congress in Lyon, France, October 2010
4) Lise Bernard, Valérie Sautou, Daniel Bourdeaux, Jean Chopineau
Stability and compatibility of paracetamol and ketoprofen Stability
and compatibility of paracetamol and ketoprofen in a fail-safe iv administration set.
Laboratory of Clinical Pharmacy and Biotechnics, Faculty of Pharmacy, University Clermont1,
Place Henri Dunant, 63001 Clermont-Ferrand, France
This poster was presented during the last ESCP Congress in October, Lyon- France

The 16th edition of the Handbook on Injectable Drugs brings together a wealth of information on 349 parenteral drugs commercially available in the United States and in other countries. The information in the 16th edition is accumulated from 2788 references, including 65 new to this edition. The database is also available in a CDROM format.

Can be ordered on:
http://www.ashp.org/bookstore/DrugInformation

STATISTICS
The number of Stabilis users approaches 10 000 in last January.
Some languages have increased like German, Latvian and Spanish.

Figure 1 gives the evolution during the last two years
We present two «Country focus», one on Latvia and one on Brazil.

The use of Stabilis in Latvia increased from 43% during the last 6 months of 2010 compared to the 6 previous months. 10 Towns, especially Riga, uses Stabilis.

Brazil has also increased the use of the database (218% during the last 6 months) Thanks to Annemerli Livinalli, vice-presidente of the SOBRAFO, for the promotion of Stabilis which is used by 80 towns in Brazil.

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**Figure 2 gives the numbers of use sorted by languages since the opening of the website in February 2008.**

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