Weekly, we prepare four 500 ml bags from a stock solution. We give the neonatology department two so they can hold a small stock and we keep the other two in order to cheque when we need to make another batch.

From implementation, in February 2012, the microbiological controls have always been negative and the biochemical controls have demonstrated that degradation does not occur after refrigeration for seven days.

**Conclusions** This formulation makes it possible for the physicians to continue with the nutritional support, by peripheral infusion, at any time.

However this type of nutritional solutions is only suitable for meeting the nutritional requirements for short periods, until a new central catheter is placed or the neonate is able to have complete enteral feeding.

No conflict of interest.

**Background** Various pulmonary diseases can be evaluated by ventilation and perfusion scintigraphy with a continuous inhalation of $^{81m}$Krypton. Leak of radionuclide during inhalation is a major issue for image quality and requires the intervention of a technician, exposing him-her to gamma radiation from the patient.

**Purpose** To compare two masks: the DAR breathing system (Covidien) and the Performa Trak VNI (Philips Respironics) including a harness for ventilation scintigraphy and to develop an automatic method for evaluating the quality of $^{81m}$Kr inhalation.

**Materials and Methods** We enrolled and randomised 48 patients to breathe through two types of masks: DAR ($n=29$) or VNI ($n=23$). After intravenous injection of $99m$Tc-labelled macroglobruated human albumin (LyovMAA, Covidien) and during continuous inhalation of $^{81m}$Kr extracted from a $^{81Rb}$-$^{81m}$Kr generator (Kryptoscan, Covidien), eight incidences were acquired on a dual-head gamma camera. Three parameters were automatically computed by an automatic segmentation method: the mean ventilation counts (mcounts), an index of constancy of the inhalation rates as well as the maximum background noise on the profiles incidences. Non-parametric tests of comparison of variance and proportion were used (Mood test and Fisher exact Test).

**Results** Variance of Cvent/perf and mBN were significantly higher ($P=0.03$) in the DAR group. In this group 6/25 (24%) patients had parameters out of the distribution of the VNI group and 11/25 (44%) needed the help of a technician to hold their mask. No difference in the mcounts rate was observed.

**Conclusions** Index of variability of the ventilation rate as well as background noise were significantly higher in the DAR group and involved about 24% of the patients. Support with VNI masks improved the image quality, decreased exposure to radiation and guaranteed constancy in care compared to DAR. Nevertheless high costs restrict their use.

No conflict of interest.

**QHP-021 DEVELOPMENT AND IMPLEMENTATION OF A PERIPHERAL STANDARD PARENTERAL NUTRITION FOR A NEONATOLOGY DEPARTMENT**

A Belaustegi Foronda, B Sordo Asa, Z Baskaran Kaltzakorta, A De Basagoiti Gorordo, I Bilbao Meseguer, J Hernandez Goicoechea, B San Jose Ruiz, M Castaño Lopez, E Rodriguez España, S Sautua Larreategi. Hospital Universitario de Cruces, Pharmacy, Bilbao, Spain

**Background** Parenteral nutrition (PN) for neonates has to be infused by a central line, due to the high osmolality resulting from the recommended requirements. The central catheter frequently needs to be removed, and therefore PN may have to be administered by a peripheral line. This problem has been resolved by infusion of enriched glucose solutions, minus the protein input, which is very sensitive to pipericillin-tazobactam or fosfomycin. Klebsiella spp. were isolated in 3.6%, of which 33.3% were ESBL-producing and 50% were sensitive to piperacillin-tazobactam. Total treatments subject to de-escalation were 96 (55.8%), out of 172 showing this possibility, where 74 (77.1%) were carried out by initiatives of medical teams and 22 (22.9%) after pharmacy interventions. The Services with a higher degree of acceptance of pharmacy interventions were Internal Medicine (56.4%) and General Surgery (27.5%).

**Conclusions** Although the therapeutic de-escalation of empirical treatments with carbapenem was a low percentage, nevertheless pharmacy interventions achieved an increase of this practice, with the more receptive specialties being Internal Medicine and General Surgery.

No conflict of interest.

**OHP-022 DEVELOPMENT OF AN AUTOMATIC METHOD FOR THE COMPARISON OF MASKS USED IN $^{81m}$K/R$^{99m}$Tc DUAL ISOTOPE PLANAR VENTILATION/PERFUSION SCINTIGRAPHY**

doi:10.1136/ejhpharm-2013-000276.396

1 H De Blander, 1 A Maulois, 1 E Camps, 2 B Bonan, 1 E Le Stanc, 1 D Vilain. 1 Hopital Foch, Service of Pharmacy, Suresnes, France; 2 Hopital Foch, Service of Nuclear Medicine, Suresnes, France

**Background** Parenteral nutrition (PN) for neonates has to be enriched glucose solutions, minus the protein input, which is very needs to be removed, and therefore PN may have to be administered by a peripheral line. This problem has been resolved by infusion of enriched glucose solutions, minus the protein input, which is very important in order to avoid catabolism.

**Purpose** To develop a standard PN with glucose, electrolytes and amino acids, suitable for peripheral infusion and available for the Neonatology department at any time.

The aim is to infuse 100 mL/Kg.

**Materials and Methods** We performed a literature search about standard PN and we made microbiological and biochemical cheques to ensure the stability and integrity of the solution, after keeping it refrigerated for seven days.

**Results** We developed a standard PN solution with the following composition per 100 mL:

- Amino acids: 2 g
- Glucose: 9.5 g
- Sodium: 4 mEq
- Potassium: 2 mEq
- Magnesium: 0.2 mEq
- Calcium: 1.5 mEq
- Phosphate: 0.8 mmol
- Osmolarity: 792 mOsm/L
- Total calories: 46 Kcal

Weekly, we prepare four 500 ml bags from a stock solution. We give the neonatology department two so they can hold a small stock and we keep the other two in order to cheque when we need to make another batch.

From implementation, in February 2012, the microbiological controls have always been negative and the biochemical controls have demonstrated that degradation does not occur after refrigeration for seven days.

**Conclusions** This formulation makes it possible for the physicians to continue with the nutritional support, by peripheral infusion, at any time.

However this type of nutritional solutions is only suitable for meeting the nutritional requirements for short periods, until a new central catheter is placed or the neonate is able to have complete enteral feeding.

No conflict of interest.