

## Background

The use of parenteral nutrition (PN) is necessary for child in waiting for an optimum enteral nutrition or when this one is not possible or contraindicated.

Three different types of PN bag exist: bag with Marketing Authorisation, standardised bag and bag on demand, the last two consist in masterly preparations made by a mannered.

According to IGAS (General Inspection of Social Affairs) Report about paediatric PN practices, it is necessary to promote, as far as possible, specialities with Marketing Authorisation, in order to guaranty an optimum security for clinical, microbiological and physicochemical degrees.

The first multi chamber PN bag with a ternary combination, intended for paediatrics, was commercialised under the name Numetah and has been listed in AP-HM since August 2015.

## Purpose

This study's purpose is to determine the product marketing influence on PN bag prescription in paediatrics.

## Material and Methods

Study was based on a comparison before/after Numetah commercialisation.

Consumption of different bag types has been analysed in 4 pediatric departments (Pediatric Intensive Care: RP, Pediatric Surgery: CP, Pediatric Oncology: OP and Multidisciplinary Pediatrics: PP).

Two periods were defined :

- Period 1 : from August 2014 to March 2015 (before Numetah commercialisation)
- Period 2 : from August 2015 to March 2016

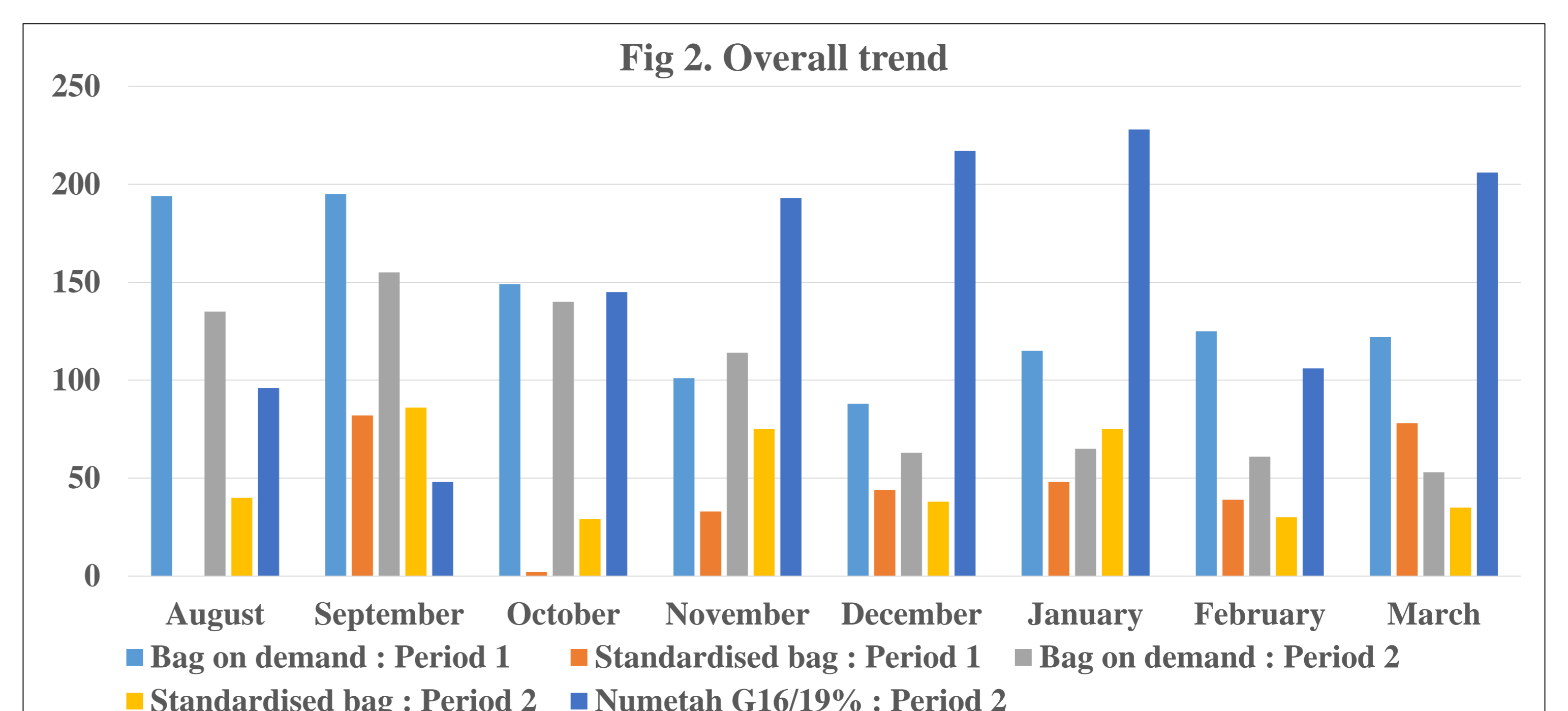
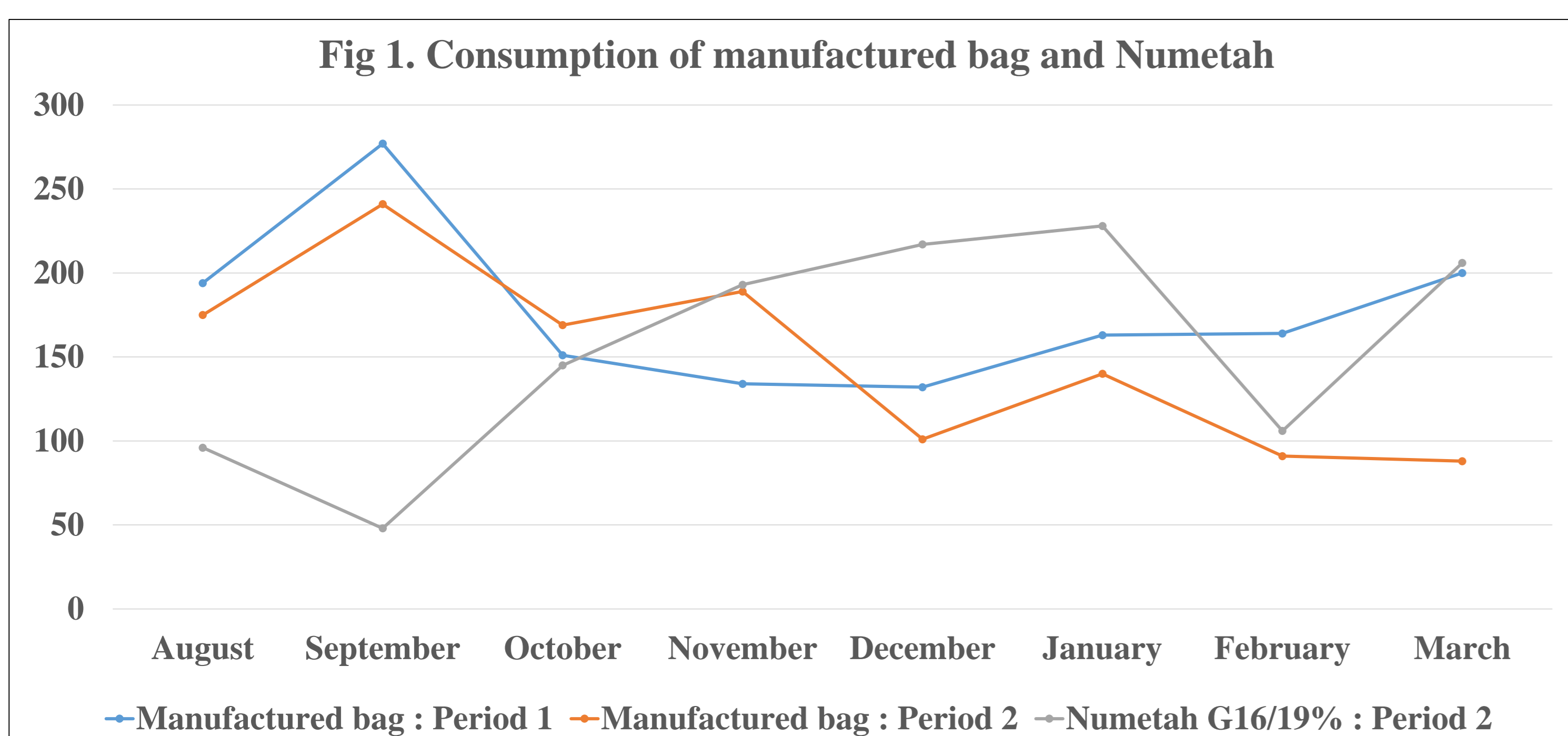
At the same time, we also studied the consumption of different bag with AMM in the booklet.

The following data were collected by using Pharma software: consumer services, number and type of consumed bags, and number of patients.

## Results

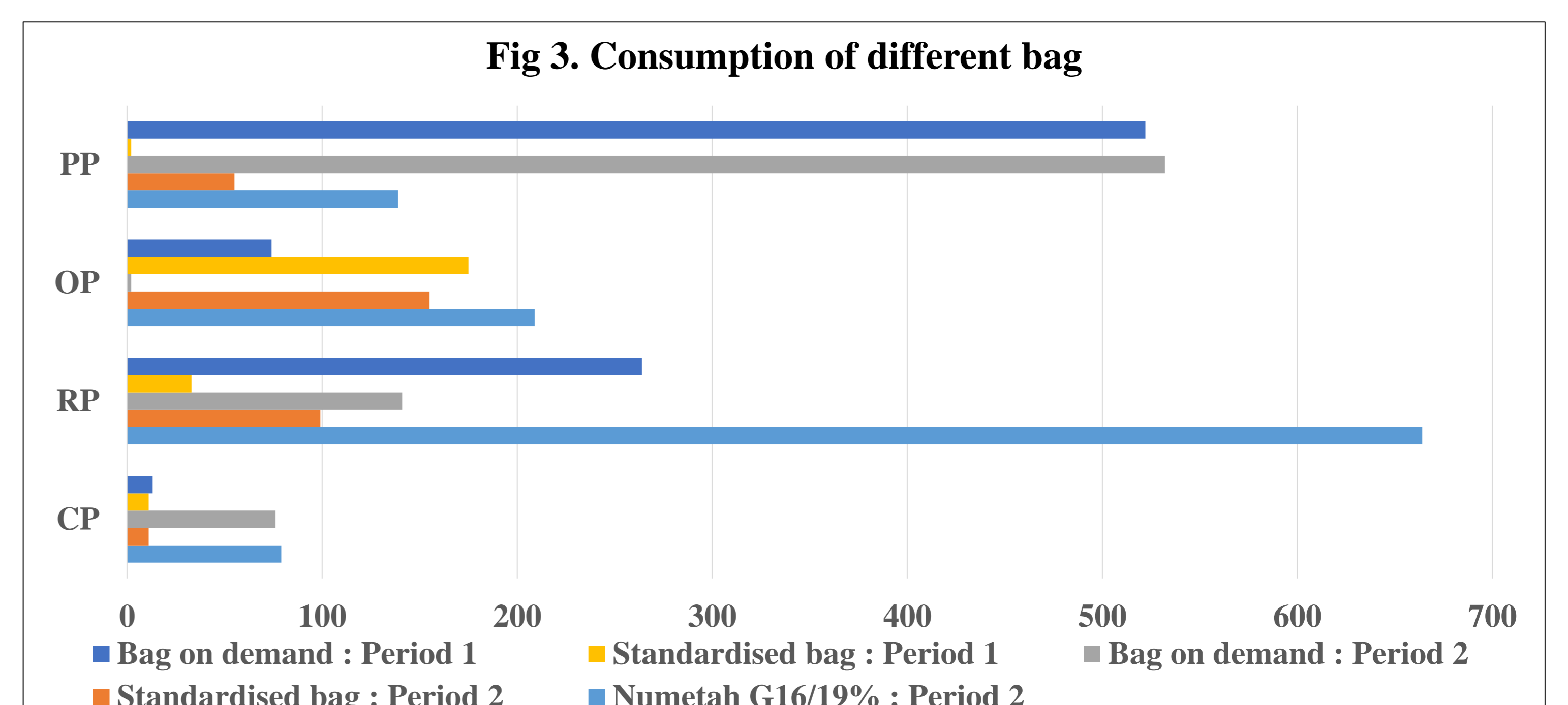
We can observe a decrease of prescription of manufactured bags in favour of ternary-compartmented bags, especially in RP, an area in which the delivery of all bags with AMM also decreased.

Numetah represents about 50% of prescriptions, except in the PP sector, which could be explained by presence of a PN Specialist.



**Tab 1. Consumption of different bag**

		CP	RP	OP	PP
Period 1	Bag on demand	13	264	74	522
	Standardised bag	11	33	175	2
Period 2	Bag on demand	76	141	2	532
	Standardised bag	11	99	155	55
	Numetah G16/19%	79	664	209	139



## Conclusion

The commercialisation of Numetah allowed to fill more newborn babies and hospitalised children nutritious needs, particularly in RP.

This study has led to highlight that in PP sector, prescriptions for bag on demand is justified.

As a result, the bag Numetah best match with the IGAS recommendations in paediatric parenteral nutrition. Nevertheless, despite everything, some patients with particular needs still require standardised or bags on demand prescription.