

Clinical Research Network West Midlands





## Coventry and Warwickshire VTS, CRN West Midlands and Warwick Medical School **'Primary Care Research and Audit in Coventry and Warwickshire'** 11<sup>th</sup> July 2019

Title	First Name	Surname		
Miss	Bridget	McManamon		
Place of work/stud				
Warwick Medical	School (Phase 3)			
PRESENTATION	DETAILS (total max 250 w	ords - not including title)		
Co-Authors	Title of Study			
	Are patients at the Forrest Medical Centre receivir			
n/a	•	infant immunisations appropriately: follow up and		
	completion of the a	audit cycle		
What's the problem	you are tackling? (Backg	round)		
In the UK. there is a so	et guideline for the schedule	of infant vaccinations given in a child'		
-	0	s outlined in the Public Health England		
(PHE) document 'Imm	nunisation against infectious	disease' ('The Green Book'). The		
guidance states that t with a	he schedule should be 'follo	wed as closely as possible', specifically		
four week interval re	commended between each	of the three doses of DTaP containing		
	-	ip to a week early, [this can be counted		
as a valid] Howeve schedule".	r, no more than one dose sh	ould be given early in the three dose		

cohort of patients who were not receiving these immunisations within the correct timeframe. The aim of this audit therefore was to establish whether the success of the practice in responding to this and establishing better practice.

## How did/will you do it? (Method)

We performed three searches of the practice's database (System One) in order to identify all patients given first year infant vaccinations. The search terms identified the '5 in 1' vaccine, as this vaccine is given at each 8, 12 and 16 week immunisation. As all infant vaccinations due before 16wks have the same immunisation schedule, this served as a proxy for the patient having received the infant immunisation schedule.

The initial audit identified patients receiving any one of their 8, 12 or 16 week immunisations within a 2 week window in April 2017, identifying the other 2 vaccines retrospectively and prospectively. We expanded this to perform a more comprehensive analysis, performing a search of all patients who received their 8 week vaccination between 1st July 2017 and 1st January 2018 (6 month period). We then followed these patients to the completion of their 16 week vaccination.

A total of 50 patients received their 1st vaccine between 1st July 2017 and 1st Jan 2018 (participants n=50; vaccinations given =150). A vaccination was defined as given early if <1 days before the recommended interval. As there is no definitive time frame for what constitutes a 'late' vaccination, we made the decision to define in the same way as the previous audit (>7 days from recommended interval).

## What did you find? (Results)

This audit found the practice has made significant improvements in the areas identified in 2017. From haven given 15% of the 5in1 vaccines early in the 2017 audit to only 2% (3 vaccines) in the 2018 audit (13% improvement). Additionally, they are now in line with guidance that 'no more than 1 dose should be given early in the 3 dose schedule', as the early doses given were received by 3 separate patients. The practice has also decreased the number of vaccinations given late by 12.7%. A summary of key data is given in the table below.

TOTALS (all 5 in 1 doses)	2017 (%)	2018 (%)
Vaccination too early (<0 days)	15.3	2
Vaccination within 1-7 days	42.7	68.7
Vaccination late (> 7 days)	42	29.3

## Why does this matter? (Conclusion)

This audit has identified that Forrest Medical Centre was highly successful in responding to recommended areas for improvement from a previous audit. It confirms the role and benefit of the audit process in identifying areas for improvement, and the importance of completing the audit cycle with re-audit to confirm these improvements. Given that the only information for the infant immunisation schedule in the Public Health England guidelines has a degree of vagueness, and there are no NICE guidelines on the administration of these vaccines, it is a beneficial area to have identified. It also suggests that other practices may have similar deficiencies in this area, which they may benefit from identifying. This is of particular relevance given that infant immunisations is highly topical at the moment, with increased scrutiny on health professionals working in this area.