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# The HCT International Conference on Advancements in Health Sciences ICAHS 2023

🛅 March 8-9, 2023 🙎 HCT-Dubai Men's Campus

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**Campus: Dubai Women Campus** 

**Program: Pharmacy – Health Sciences** 

The impact of COVID-19 on antimicrobial stewardship implementation in UAE hospitals: An exploration informed by the Consolidated Framework for Implementation Research (CFIR)

Introduction	Aims	Methodology
Despite numerous	The aim of this study	Research tool: Semi-structured online interviews. July 2020 – December
published studies about	was to use Consolidated	2020. Approximately 45 – 60 minutes
antimicrobial stewardship	framework for	Interview schedule: Informed by CFIR and literature review.
programme (ASP)	Implementation research	Interview Schedule. Informed by Crint and interature review.
implementation, a lack of	(CFIR) <sup>2</sup> to explore key	Participants: ASP team members and other healthcare practitioners dealing
theoretical underpinning	stakeholders'	with antimicrobials in UAE hospitals.
within this research	perspective regarding	Recruitment: Purposeful followed by snowball sampling. Maximum variation
emerges. <sup>1</sup> This leads to	ASP implementation in	of participants.
incomplete knowledge of	United Arab Emirates	
contextual determinants	(UAE) hospitals with a	<b>Data management:</b> Audio recorded, transcribed verbatim and anonymised.
impacting ASP	focus on facilitators and	Using NVIVO software
implementation.	barriers.	Data analysis: Independently analysed by two researchers

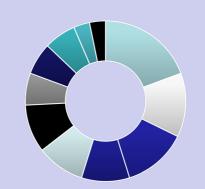
#### Results

4 surgeons

2 Quality officers

3 Nurses

### A. Population (Figure 1)



### **B. Hospitals' demographics (Figure 2)**



- 6 Clinical pharmacist = 4 pharmacist
- 3 ID physicians
- 2 Nephrologist
- 3 ICU consultants2 Microbiologist
- 1 internist
- 1 GP physician

Abu Dhabi N= 4

### C. Main themes identified with examples of supporting quotes (Table 1)

Themes	Supporting quotes
Theme one: Increased complexity of ASP implementation and resulting changes in prescribing behaviour influenced by COVID-19.	<i>"It halted everything, because we had to be pulled to cover the covid wards."</i> [ID physician 1]
Theme two: Adaptations, networking and cosmopolitanism (external networking) to enhance integration of COVID-19 management in ASP services.	"Experience with ASP and having structure and having consultations and having meetings with different stakeholders really allowed us [to help in building national guidelines for COVID], a lot of the infectious disease people are clinical pharmacist and are actually quite solid." [Clinical pharmacist 2]
Theme three: Adaptations and networking to support continuity of ASP implementation process	"For us as an ASP member in our facility, we provide a daily feedback for the doctor, especially in the Critical care area regarding the treatment plan of covid patients, so it was a huge challenge at the initial phase of covid, but now start to be stabilized and improved." [Clinical pharmacist 6]

#### **Conclusion and Recommendations**

Despite the initial disruption of ASP implementation during the peak of the pandemic, the subsequent successful integration of ASP infrastructure, process and personnel to contribute to dealing with the pandemic reflects the high value and well established roles of ASP in UAE hospitals.

#### References

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(2) Damschroder LJ, Aron DC, Keith RE, Kirsh SR, Alexander JA, Lowery JC. Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. Implementation Science: IS. 2009; 4:50-50.