Page **1** of **12** 

Rev. (1) Date (30-12-2020)

مستوى سرية الوثيقة: استخدام داخلي

Document Security Level = Internal Use



### **Publications Template**

#	Research Title Field	Abstract	Year of Publication Publishing	Publishing Link "URL"
1	■ Gaballah, A., Ghazal, A., Metwally, D., Emad, R., Essam, G., Attia, N. M., & Amer, A. N. (2022). Mutation patterns, cross resistance and virological failure among HIV type-1 patients in Alexandria, Egypt. Future Virology, (0).	Aim: The main purpose of this cross-sectional study was to detect the prevalence of drug resistance mutations related to nonnucleoside/nucleoside reverse transcriptase inhibitors (NNRTIs/NRTIs) and protease inhibitors (PIs). Patients & methods: Patients (n = 45) with HIV type-1 were recruited, 30 of whom were treatment naive and 15 treatment experienced. A partial pol gene covering the protease/reverse transcriptase (PRRT) region was amplified and then sequenced by the Sanger method. Results & conclusion: The most common NNRTI/NRTI-related mutations were 'V179I (24%) and K103N (14.3%)' and 'M41L and V75M' (14.3% each). M36I and H69K were	2021	• https://doi.org/10.2217/fvl-2021- 0279

**Publications Template** 

Doc. No. (PUA-IT-P01-F14)

Issue no.(1) Date (30-12-2020)



## جامعة فاروس الاسكندرية

جامعة فاروس

2	Shawaky, S. Shammari, I A., Sewellian S., Ghazal, A R., & Amer, (2022). A stu vaginitis pregnant and pregnant fem Alexandria,	M. M. m, M. a. A. E. b. A. N. ady on among d non- nales in Bacteriology	the most prevalent PI-related mutations (86% each). The results of the current study serve as an initial crucial step in defining the overall prevalence of HIV type-1 drug resistance in Egypt.  Background: Many infectious and noninfectious triggers lead to inflammation of the vagina.  Aim: We investigated the prevalence of causative vaginitis microorganisms in 516 pregnant and nonpregnant female volunteers. Vaginal samples were examined microscopically, cultured and tested for different pathogens.  Results: Of the participants, 310 (60.1%) were pregnant,	2022	10.3934/microbiol.2022014
2	(2022). A stuvaginitis pregnant and pregnant fem	among d non- nales in Egypt: ed high mixed  MS	female volunteers. Vaginal samples were examined microscopically, cultured and tested for different pathogens.  Results: Of the participants,	2022	10.3934/microbiol.2022014

**Publications Template** 

Page <b>2</b> of <b>12</b>	مستوى سريـة الوثيقة: استخدام داخلي
Rev. (1) Date (30-12-2020)	Document Security Level = Internal Use



## جامعة فاروس الاسكندرية

			(p value ≤ 0.01), and 24% of females had mixed infections.  The most common mixed infection was BV and Candida spp., detected in 21% of the cases.  Conclusions: Bacterial vaginosis is the most common cause of vaginitis. We observed that 24% of females experienced mixed infections, and Candida albicans was the most common fungal species causing VVC. Trichomonas vaginalis prevalence was underestimated using wet mounts.		
3	■ Gaballah, Ahmed Hassan, Sherine Shawky, and Ahmed Noby Amer.  "Microbiological profiles of neonatal sepsis in northern Egypt." <i>Microbes</i>	Bacteriology	Background: This study aimed at analyzing the microbiological profile of neonatal sepsis in Egypt and to determine the antibiotic susceptibility patterns of the isolated microorganisms.  Methods: Two thousand and four hundred blood samples were collected from neonates showing symptoms suggestive of septicemia, inoculated into	2022	10.21608/mid.2022.129600.1265

Page <b>3</b> of <b>12</b>	مستوى سرية الوثيقة: استخدام داخلي		Doc. No. (PUA-IT-P01-F14)
Rev. (1) Date (30-12-2020)	Document Security Level = Internal Use	Publications Template	Issue no.(1) Date (30-12-2020)



## جامعة فاروس الاسكندرية

and Infectious	BACT/ALERT culture bottles.	
Diseases (2022).	Positive blood culture samples	
	were identified and tested for	
	antimicrobial susceptibility.	
	<b>Results:</b> Among the neonates	
	included in our study, 457	
	(19%) neonates were positively	
	diagnosed with sepsis. early	
	onset neonatal sepsis (EOS)	
	was detected in 181 (39.6%),	
	while late-onset neonatal sepsis	
	(LOS) in 276 (60.4%) cases.	
	Klebsiella pneumoniae was the	
	most commonly isolated	
	microorganism.	
	Staphylococcus aureus and	
	Enterococcus spp. were the	
	most common isolated Gram-	
	positive bacteria. <i>Candida</i> spp.	
	was more encountered in	
	LOS.An alarming feature of	
	the present study is the high	
	incidence of multidrug resistant	
	microorganisms (65%). Among	
	Gram negative isolates (56%)	
	of were extended spectrum	
	beta-lactamase (ESBL)	
	producers and (70.5%) were	
	carbapenem resistant. In Gram	
	positive bacteria, resistance to	

Rev. (1) Date (30-12-2020)

Document Security Level = Internal Use



# جامعة فاروس الاسكندرية

جامعة فاروس

		methicillin in <i>S. aureus and</i> coagulase negative staphylococci were detected in (50%) and (41%) of isolates respectively. Additionally, 17% of Enterococcus isolates were vancomycin resistant.  Coclusion: Our bacteriological profile of neonatal sepsis showed that Gram negative bacteria represented the majority of isolates. Klebsiella pneumoniae was the predominant isolate. In our study, both EOS & LOS share a nosocomial infection profile, as high antimicrobial resistance was observed among our isolates. The susceptibility profiles of the isolates may urge for the change of the current used empirical therapies.		
4	N. A., Kandil, N. H., & Amer, A. N. (2022). Status of Bac Antimicrobial Stewardship	teriology  Background: Antimicrobial stewardship aims to stop or slow the emergence of antimicrobial-resistant strains. Following the launch of Egypt's National Action Plan	2022	10.21608/ejmm.2022.228828

Issue no.(1) Date (30-12-2020)



### جامعة فاروس الاسكندر ية

جامعة فاروس

Implementation in
Selected Egyptian
<b>Hospitals: A Cross-</b>
sectional
Study. Egyptian
Journal of Medical
Microbiology, 31(2),
77-83.

on Antimicrobial Resistance, numerous hospitals took steps to adopt ASP, but no formal assessments were conducted. Objectives: The goal of this study is to determine the extent to which ASP is used, as well as stewardship understanding and implementation, in several Egyptian hospitals. Methodology: A crosssectional study was carried out to measure stewardship knowledge and execution, from June to July 2020, in various Egyptian hospitals. The hospital description, ASP committee, ASP activities, reporting antibiotic use, antibiogram, information technology support, ASP restriction techniques, and future ASP application were all covered in the survey. Results: The study covered a variety of hospitals, the majority of which (61.8%) adopted an ASP program while others (38.2%) did not;

Page <b>6</b> of <b>12</b>	مستوى سرية الوثيقة: استخدام داخلي	Dublications Tourslate	Doc. No. (PUA-IT-P01-F14)
Rev. (1) Date (30-12-2020)	Document Security Level = Internal Use	Publications Template	Issue no.(1) Date (30-12-2020)



at the time of the study, 71.4 % of the latter were planning to implement an ASP program in the future. Twenty-two institutions (48.5 %) said they routinely use facility-specific antibiograms. Antimicrobial reports were received on a regular basis by thirteen hospitals (37.1%). Fifteen hospitals (42.9%) said they were already using one or more computer applications. Resistance trends, infection rates, duration of stay, mortality rate, and reported adverse drug reactions were all monitored at the hospitals. Only 20% of the hospitals in this study had an ASP training program. Conclusion: Egyptian hospitals have a good ASP implementation; however, IT support programs, cooperation between healthcare members, monitoring outcomes, and infectious disease consultations are still needed.



جامعة فاروس الاسكندرية

Page 8 of 12		
Rev. (1) Date (30-12-2020)	Ì	



### جامعة فاروس الاسكندر ية

using nested PCR of cDNA of	
the viral genomic RNA, then	
sequenced. The sequence	
data were used for viral HIV-	
1 subtyping by 5 online	
subtyping tools: NCBI viral	
genotyping tool, Stanford	
University HIV database	
(HIVDB) subtyping program,	
<b>REGA tool, Context-Based</b>	
Modeling for Expeditious	
Typing (COMET) tool, and	
<b>Recombinant Identification</b>	
<b>Program (RIP) tool. The final</b>	
subtype assignment was	
based on molecular	
phylogenetic analysis.	
Results: Unexpectedly, non-B	
subtypes are dominating,	
with the most common	
circulating one is CRF02_AG	
(57.1%) followed by subtype	
<b>B</b> (14.3%), subtype <b>BG</b>	
recombinant (9.5%), CRF35_	
<b>AD</b> (9.5%), subtype <b>A1</b> and	
CRF06_cpx (4.8% each).	
<b>Conclusion: To the best of</b>	
our knowledge, this is the	
first study to tackle HIV-1	
subtyping among the group	



# جامعة فاروس الاسكندرية

Page <b>10</b> of <b>12</b>	مستوى سريـة الوثيقة: استخدام داخلي
Rev. (1) Date (30-12-2020)	Document Security Level = Internal Use



### جامعة فاروس الاسكندر ية

by interferon lambda (IFNγ)	
or viral infection. This study	
aimed to evaluate the co-	
expression of IL-29, IP-10	
and MIG in peripheral blood	
mononuclear cells (PBMCs)	
from untreated and treated	
chronic HCV patients with	
DAAs. This study included	
group of twenty naïve HCV	
patients, group of twenty	
sustained viral response	
(SVR) patients and a control	
group that consisted of 10	
healthy subjects. All subjects	
were tested for liver enzymes,	
serum albumin level, total	
serum bilirubin, platelet	
count, prothrombin activity	
and viral load. Relative gene	
expression of IL-29, IP-10,	
and MIG in PBMCs from all	
subjects was determined	
using real time PCR. The	
mean value of IL-29, IP-10	
and MIG gene expression	
significantly increased in	
both naïve HCV and SVR	
groups of patients as	
compared to normal subjects.	

Page <b>11</b> of <b>12</b>		
Pay (1) Data (30-12-2020)		



### جامعة فاروس الاسكندرية

The corresponding value was significantly lower in patients with SVR compared to naïve	
HCV patients. Infection with HCV significantly trigged the	
co-expression of IL-29, IP-10,	
and CXCL9 (MIG) genes in PBMCs of chronic hepatitis	
C patients and significantly down-regulated in those who	
achieved SVR after successful DAAs therapy.	
Keywords: IP10; MIG; IL29; HCV; DAAs; gene	
expression.	