# JOURNAL-BASED LEARNING EXERCISES



Please select your choice of correct answers and complete the exercises online at: www.ibms.org/cpd/jbl

Cell blocks in cytopathology: an update Nambirajan A, Jain D. <i>Cytopathology</i> 2018; <b>29</b> (6): 505–24. Assessment No: 110819						
	The study looked at three different factors: improving diagnostic yield, CB preparation method optimisation, and looking at factors influencing ancillary testing success and validity in CB preparations.	11	P63, p40 and TTF1 ancillary tests on CB can aid diagnosis of lung carcinomas.			
	There are only two methods for preparing cell blocks.	12	The cell tube method has shown to yield up to 100 serial sections with better morphology.			
	49% of cytopathologists in the USA are dissatisfied with their current cell block quality.	13	In general, alcohol-fixed Cellient cell blocks show inferior results for hormone receptor status and <i>HER2/neu</i> CISH.			
	Exudative cavity fluids do not have adhesive properties and need an additional additive to be added (eg albumin).	14	ALK rearrangement in NSLC can be assessed using a combination of ICC for screening with FISH confirmation testing.			
	Plasma thrombin CB method is not ideal for cases requiring NGS.	15	EBUSTBNA are reportedly better than core biopsies for PDL1 testing as they show less crush artefact and yield mor tumour cells.			
	Using a methanol-based fixative provides good morphology but gives rise to a large number of false-negative results for ICC antibodies when using the Cellient CB methodology.	16	According to current guidelines, routine testing for <i>EGFR</i> mutations along with <i>ALK</i> and <i>ROS-1</i> rearrangements are recommended for melanoma patients.			
	The colloidin bag methodology yields lower cellularity in comparison with plasma thrombin and Histogel methods.	17	DNA extracted from cytology samples is usually of better quality in comparison with histology samples.			
	LBC preparations show poor long-term DNA preservation.	18	Formalin-fixed, paraffin wax-embedded (FFPE) CBs offer the best-quality DNA.			
	Cell scrapes cannot be used for any cell block methodology.	19	The adequacy criteria for NG sequencing requires at least 20% tumour fraction in a CB measuring 3 mm or greater.			
	The principle of the AFFECT cell block method is cytocentrifugation.	20	PDL1 status can be easily assessed in serous fluid specimens.			
REFLECTIVE LEARNING						

# **DEADLINE WEDNESDAY 5 FEBRUARY 2020**

**Safety and perception: what are the greatest enemies of HPV vaccination programmes?** Bonanni P, Zanella B, Santomauro F, Lorini C, Bechini A, Boccalini S, *Vaccine* 2018: **36** (36): 5424–9. Assessment No: 110619

Lorini C, Bechini A, Boccalini S. <i>Vaccine</i> 2018; <b>36</b> (36): 5424–9. Assessment No: 110619						
	e most recently available HPV vaccine is designed protect against nine serotypes.	11	For people over 14 years old, a two-dose schedule for the HPV vaccine is recommended.			
	s theoretically possible for a vaccine to produce an munological adverse event.	12	The HPV vaccines currently available are subunit vaccines containing virus-like particles.			
03 be mo	accine hesitancy' relating to HPV in Japan has arisen cause the perceived health risk from the vaccine is one immediate than the potential for protection from PV-related cancers.	13	Extensive data from follow-up studies of girls who have been vaccinated against HPV suggests that their rates of sexual activity and pregnancy are increased.			
	lverse effects following immunisation (AEFIs) are not ficially recorded.	14	There is a fear that HPV vaccination can cause demyelinating diseases such as multiple sclerosis.			
116	ne aim of a universal vaccination programme is to establish rd immunity in the population.	15	The Global Advisory Committee on Vaccine Safety (GACVS) is part of the World Health Organization.			
<b>06</b> sy	ere is substantial evidence that complex regional pain ndrome (CPRS) can arise as a complication of at least one rm of the HPV vaccine.	16	The European Centre for Disease Prevention and Control (ECDC) issues specific information about the HPV vaccine for healthcare professionals for use in advising patients.			
	though HPV is a sexually transmitted virus, the main aim the vaccine is to prevent cancers.	17	The nonovalent HPV vaccine is mainly expected to protect against genital warts.			
1133	nanni <i>et al.</i> suggest that the nonovalent HPV vaccine ould be promoted on social media only.	18	The first HPV vaccine was licensed in 2006.			
<b>09</b> of	hen the chance of an adverse event after administration a particular vaccine is similar to that for all vaccines, the oportional reporting ratio (PRR) will be close to one.	19	'Vaccine hesitancy' can be an issue among healthcare professionals.			
	Japan, the bivalent Cervarix HPV vaccine was commended but then withdrawn.	20	Mechanisms for monitoring adverse events following immunisation include the Vaccine Adverse Event Surveillance and Communication (VAESCO) network, which is funded by the Centers for Diseases Control and Prevention (CDC).			
REFLECTIVE LEARNING						

Discuss how 'vaccine hesitancy' has affected the uptake of other vaccines, such as MMR.

02 Evaluate the role of the routine diagnostic laboratory in monitoring the efficacy of HPV vaccination.

# IBMS RESOURCES

# **CONTINUING PROFESSIONAL DEVELOPMENT**

## Mv CPD

Members can enhance their professional practice and development with the IBMS CPD scheme. The scheme offers members a flexible system of recording CPD that is easy to use and meets the requirements for achieving and maintaining professional registration. The scheme is now electronic, so recording, amending and validating are all carried out online.

# Journal-Based Learning (JBL)

IBMS JBL involves reading and answering questions based on articles in scientific journals. It is an excellent way to learn about scientific advances and techniques as part of CPD.

## **Reading resources**

IBMS reading lists, textbooks and journals support learning and development.