


★ ★ ★ ৭৮ :	$HCl \xrightarrow{H_2O} H^+ + Cl^-$	(সি. কো. ১৭)
ক. লেবুতে কোন ধরনের এসিড থাকে?		১
খ. নির্দেশক বলতে কী বোঝায়?		২
গ. উদ্ভীপকের বিক্রিয়ায় যৌগটির বৈশিষ্ট্য ব্যাখ্যা কর।		৩
ঘ. উদ্ভীপক যৌগটির ব্যবহার আলোচনা কর।		৪
★ ★ ★ ৭৯ :	নিচের বিক্রিয়া লুক কর এবং প্রস্তুপের উত্তর দাও :	
	$CaCO_3 \longrightarrow A \text{ (কঠিন)} + B \text{ (গ্যাস)}$	
	$A + H_2O \longrightarrow Ca(OH)_2$	
	(সি. কো. ১৮)	

★ ★ ৮০ :	$H + Cl$ এর সমন্বয়ে গঠিত যৌগ-A	$Mg + O$ এর সমন্বয়ে গঠিত যৌগ-B	\rightarrow উৎপাদ-C + H_2O	(সি. কো. ১৭)
[A ও B উভয়েই স্ফিটমাসের বর্ণ পরিবর্তন করে]				
ক. মিছা অব ম্যাগনেসিয়া কী?				৩
খ. নির্দেশক কী? ব্যাখ্যা কর।				৩
গ. উদ্ভীপকের 'A' যৌগটির বৈশিষ্ট্য ব্যাখ্যা কর।				৩
ঘ. উদ্ভীপকের বিক্রিয়ায় সম্পন্ন কর এবং এটি কোন ধরনের— ব্যাখ্যা কর।				৪

★ ★ ৮১ :	$\begin{array}{c} \text{Ca + O এর} \\ \text{সমন্বয়ে গঠিত} \\ \text{যৌগ-A} \end{array} + \begin{array}{c} \text{Fe + O এর} \\ \text{সমন্বয়ে গঠিত} \\ \text{যৌগ-B} \end{array} \rightarrow \text{উৎপাদ X} + \text{H}_2\text{O}$	(সি. কো. ১৭)
ক.	মিছা অব লাইমের সংকেত লেখ।	১
খ.	নির্দেশক বলতে কী বোঝায়? ব্যাখ্যা কর।	২
গ.	উদ্ভীপকের 'B' যৌগটির বৈশিষ্ট্য ব্যাখ্যা কর।	৩
ঘ.	উদ্ভীপকের বিক্রিয়ায় কোন ধরনের? সমীকরণসহ ব্যাখ্যা কর।	৪
★ ★ ৮২ :	$A + HCl \rightarrow KCl + H_2O$	(সি. কো. ১৮)
ক.	সোনার পছন্দা তৈরির সময় ফলকরেবা কোন এসিড ব্যবহার করেন?	১
খ.	সংকেত কোণ বলতে কী বোঝায়?	২
গ.	বিক্রিয়ায় 'A' চিহ্নিত যৌগটি কিসের— প্রমাণ কর।	৩
ঘ.	উদ্ভীপকের 'A' এর স্থানে CaCO_3 লবণ ব্যবহার করলে বিক্রিয়া হবে কিনা? যুক্তিসহ তোমার মতামত দাও।	৪

অধ্যায়-১১ : আলো

★ ★ ৮৩ :	অগ্নিস একদিন গোসল করতে পুকুর ঘাটে গেল। সে পুকুরের স্বচ্ছ পানিতে দৃশ্যমান সিঁড়িতে পা রাখল। কিন্তু সিঁড়িটি তার ধারণার চেয়ে নিচে থাকায় সে পড়ে গেল। অনলিকে তার ছোট ভাই পুকুরে সড়কি নিয়ে মাছ ধরতে গেল। কিন্তু সড়কি অবস্থানে সড়কি নিক্ষেপ না করার সে মাছ ধরতে বার্ব হলো।	(সি. কো. ১৭)
ক. আলোর প্রতিসরণ কী?		১
খ. আলোকবাহুর নিক পরিবর্তনের কারণ কী?		২
গ. পুকুরে অগ্নিসের পড়ে যাওয়ার কারণ ব্যাখ্যা কর।		৩
ঘ. কী ধরনের কৌশল অবলম্বন করলে অগ্নিসের ছোট ভাইয়ের মাছ শিকার করা সম্ভব হতো? যুক্তিসহ মতামত দাও।		৪

★ ★ ৮৪ :		(সি. কো. ১৭)
ক. আলোর প্রতিসরণ কাকে বলে?	১	
খ. পূর্ণ অভ্যন্তরীণ প্রতিফলন বলতে কী বোঝায়?	২	
গ. চিত্র A এর ঘটনাটি ব্যাখ্যা কর।	৩	
ঘ. চিত্র A এর ব্যঙ্গব প্রয়োগ আলোচনা কর।	৪	

ক. আলোর প্রতিসরণ কাকে বলে?	১
খ. পূর্ণ অভ্যন্তরীণ প্রতিফলন বলতে কী বোঝায়?	২
গ. চিত্র A এর ঘটনাটি ব্যাখ্যা কর।	৩
ঘ. চিত্র A এর ব্যঙ্গব প্রয়োগ আলোচনা কর।	৪

★ ★ ৮৫ : প্রাচীন বসবাসেরত বুমা তার পড়ার টেবিলে একটি পেনসিল প্রাচীরে পানিতে রাখা করে ভূমি দিয়ে প্রাচীর পর্যবেক্ষণ করল যে, পেনসিলটি ছোট ও বেঁটা দেখায়। হঠাৎ তার একটি ছোট টেবিলে রাখা হারিকেনের পরম ডিম্বির উপর পড়ায় অবলম্বন সে ডিম্বি থেকে ছাড়াটি সরিয়ে ফেলল।

(সি. কো. ১৮)

ক. ছাইসিটেরমানে কাকে বলে?	১
খ. প্রাচীরের ভেতরে প্রবর্তি আলোর প্রতিফলন না হওয়ার কারণ কী?	২
গ. বুমার পর্যবেক্ষণকৃত ঘটনাটির কারণ ব্যাখ্যা কর।	৩
ঘ. উদ্ভীপকে বুমার শেষের আচরণটির সাথে তার দ্ব্যর্থিক প্রক্রিয়াটি কি জড়িত? লক্ষ্যে যুক্তি দাও।	৪

★ ★ ৮৬ :		(সি. কো. ১৮)
ক. অণুচিকাল ছাইবার কাকে বলে?	১	
খ. সংকেত কোণ বলতে কী বোঝায়?	২	
গ. ১ নাং চিত্রের কাজ বর্ণনা কর।	৩	
ঘ. যে বস্তুটির কার্যপালি ২ নাং চিত্রের মতো তার গঠন ও কার্যপালি বর্ণনা কর।	৪	

ক.	অপটিক্যাল ফাইবার কাকে বলে?	১
খ.	সংকেত কোন কাজে কী বোঝায়?	২
গ.	১ নং চিত্রের কাজ বর্ণনা কর।	৩
ঘ.	যে বায়ুটির কণাগুলি ১ নং চিত্রের মধ্যে ভর পঠন ও কার্যপ্রণালি বর্ণনা কর।	৪
★ ★ ৮৭ :	সুমন্তর হাত থেকে ০.০৯৮ মিউটন ওজনের একটি কয়েন ও একটি পেন্সিল পানি ভর্তি গামলায় মধ্যে পড়ে গেল। আংশিক নিমজ্জিত অবস্থায় পেন্সিলটিকে একটি বাক্সে মনে হলো এবং কয়েনটিকে একটি উপরে উঠে আছে বলে মনে হলো।	(সি. কো. ১৭)

ক. ভর কাকে বলে?	১
খ. মিড্রি বেয়ে উপরে উঠতে কত হয় কেন?	২
গ. কয়েকটির ভর নির্ণয় কর।	৩
ঘ. উদ্ভীপকের ঘটনা দুটির কারণ একই— ব্যক্তির বিশ্লেষণ কর।	৪
★ ★ ৮৮ : অনলীর তার বাবার সাথে কুয়াকটায় বেড়াতে গিয়ে কয়েকটা নিয়ে সুন্দর সুন্দর ছবি তুললো। তার বাবা বললেন, "কয়েকটার সাথে আমাদের চোখের অনেক মিল রয়েছে।"	(সি. কো. ১৮)
ক. সংকেত কোণ কাকে বলে?	১
খ. আলোর প্রতিসরণ বলতে কী বোঝায়?	২
গ. উদ্ভীপকে উদ্ভীপিত অঙ্গটির গঠন ব্যাখ্যা কর।	৩
ঘ. অনলীরের বাবার উদ্ভীর মধ্যকার বিশ্লেষণ কর।	৪

অধ্যায়-১২ : মহাকাশ ও উপগ্রহ

<p>★ ★ ৮৯। মাছ ধরার নৌকার মালিক বকর সওদাগর রেডিওতে শুনতে পেলেন কলোপসাগরের দক্ষিণে ঘূর্ণিঝড় ঘনীভূত হচ্ছে। যেকোনো সময় উপকূলে আঘাত হনতে পারে। কল্লবাজার সমুদ্রবন্দরকে তিন মধ্যর বিপদ সংকেত দেখাতে বলা হয়েছে এবং মাছ ধরার নৌকাকে উপকূলের কাছাকাছি থাকতে বলা হয়েছে।</p>		
ক.	কৃত্রিম উপগ্রহ কাকে বলে?	১
খ.	মহাবিশ্ব বলতে কী বোঝায়?	২
গ.	রেডিও অফিসের ঘূর্ণিঝড় ঘনীভূত হওয়ার তথ্য পাওয়ারত বকর সওদাগরের কী উপকার হলো?	৩
ঘ.	আবহাওয়া বার্তাটি বকর সওদাগর ও উপকূলবাসীদের কীভাবে সতর্ক করতে পারে। ব্যাখ্যা কর।	৪

★ ★ ৯০ :		(সি. কো. ১৮)
ক. মহাকাশ কাকে বলে?	১	
খ. আগামী দিনের কত-কটির ধরন পূর্বেই জানতে পারি কেন?	২	
গ. 'উপগ্রহ-Y' এর কক্ষপথে চলার প্রক্রিয়াটি বর্ণনা কর।	৩	
ঘ. "S" পরিবাহের সমন্বয়ে মধ্যে "P" এর উপগ্রহ সংখ্যা কত— বিশ্লেষণ কর।	৪	

ক.	মহাশূন্য কাকে বলে?	১
খ.	আগামী শিল্পের অর্থ-বৃদ্ধির ধরন পৃথিবী জ্ঞানতে পারি কেন?	২
গ.	চিত্র-১ এর কক্ষপথে চলার প্রতিটি বর্ণনা কর।	৩
ঘ.	"১" পরিবারের সদস্যদের মধ্যে "২" এর উপগ্রহ সংখ্যা কম- বিশ্লেষণ কর।	৪
★ ★ ৯১ :	বিজ্ঞান প্রাচীরে শিকার উপগ্রহ সম্পর্কে পড়তে গিয়ে দুই ধরনের উপগ্রহের কথা বললেন, "মানুষের তৈরি কৃত্রিম উপগ্রহ—"মানব কল্যাণে হয়েছে ভূমিকা রাখে।" বিজ্ঞানটি প্রাকৃতিক উপগ্রহ।	(সি. কো. ১৮)
ক.	গ্যালাক্সি কাকে বলে?	১
খ.	মহাবিশ্বের তত্ত্ব ব্যাখ্যা কর।	২
গ.	কৃত্রিম উপগ্রহ পৃথিবীর চারপাশে কীভাবে প্রদক্ষিণ করে— ব্যাখ্যা কর।	৩
ঘ.	প্রথম উপগ্রহের ক্ষেত্রে শিকারের উদ্ভিটি বিশ্লেষণ কর।	৪

★ ★ ৯২ :		(সি. কো. ১৮)
ক. মহাকাশ কাকে বলে?	১	
খ. আগামী দিনের কত-কটির ধরন পূর্বেই জানতে পারি কেন?	২	
গ. 'উপগ্রহ-Y' এর কক্ষপথে চলার প্রক্রিয়াটি বর্ণনা কর।	৩	
ঘ. "S" পরিবাহের সমন্বয়ে মধ্যে "P" এর উপগ্রহ সংখ্যা কত— বিশ্লেষণ কর।	৪	

ক. মহাকাশ কাকে বলে?	১
খ. আগামী দিনের কত-কটির ধরন পূর্বেই জানতে পারি কেন?	২
গ. 'উপগ্রহ-Y' এর কক্ষপথে চলার প্রক্রিয়াটি বর্ণনা কর।	৩
ঘ. "S" পরিবাহের সমন্বয়ে মধ্যে "P" এর উপগ্রহ সংখ্যা কত— বিশ্লেষণ কর।	৪

Jsc Suggestion 2012 General Science

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Jsc Suggestion 2012 General Science:

Solving the plasmalogen puzzle - from basic science to clinical application Masanori Honsho, Fabian Dorninger, Johannes Berger, 2023-02-17 Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Extraterrestrial Sample Analysis Facilities, 2019-04-29 The United States possesses a treasure trove of extraterrestrial samples that were returned to Earth via space missions over the past four decades Analyses of these previously returned samples have led to major breakthroughs in the understanding of the age composition and origin of the solar system Having the instrumentation facilities and qualified personnel to undertake analyses of returned samples especially from missions that take up to a decade or longer from launch to return is thus of paramount importance if the National Aeronautics and Space Administration NASA is to capitalize fully on the investment made in these missions and to achieve the full scientific impact afforded by these extraordinary samples Planetary science may be entering a new golden era of extraterrestrial sample return now is the time to assess how prepared the scientific community is to take advantage of these opportunities Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis assesses the current capabilities within the planetary science community for sample return analyses and curation and what capabilities are currently missing that will be needed for future sample return missions This report evaluates whether current laboratory support infrastructure and NASA's investment strategy is adequate to meet these analytical challenges and advises how the community can keep abreast of evolving and new techniques in order to stay at the forefront of extraterrestrial sample analysis **Towards Tokyo 2020: What Will Contribute to Optimal Olympic Athlete**

Performance? Toby Mündel, Glen Davison, Hideaki Soya, Narihiko Kondo, Matthew J. Barnes, 2020-07-22 **Issues in Logic, Operations, and Computational Mathematics and Geometry: 2013 Edition**, 2013-05-01 Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Random Structures and Algorithms The editors have built Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Random Structures and Algorithms in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Using Google Earth™* JoBea Holt, 2012-02-01 Create an interactive 21st Century learning experience by integrating technology

across the content areas With these easy to implement lessons students use Google Earth to connect their lives to the curriculum and locations and events around the world Handbook of Research on Building Inclusive Global Knowledge Societies for Sustainable Development Popescu, Cristina Raluca Gh.,2022-06-17 Knowledge and information have significant impacts on individuals daily lives and activities especially when referring to the new economy and the global knowledge societies However the COVID 19 pandemic has caused massive disruptions in the creation of the vital inclusive global information society Due to this change further study on the current difficulties and best practices of creating global knowledge societies is required in order to ensure communities can continue to advance and information is shared appropriately The Handbook of Research on Building Inclusive Global Knowledge Societies for Sustainable Development aims at providing an updated view of the newest trends novel practices and latest tendencies concerning building inclusive global knowledge societies for sustainable development while focusing on the benefits and the opportunities derived from the new economy and the global knowledge societies Covering topics such as smart cities food security and climate change this major reference work is ideal for policymakers government officials business owners managers academicians scholars researchers practitioners instructors and students *Development of voluntary guidelines for the sustainability of the Mediterranean diet in the Mediterranean region* Food and Agriculture Organization of the United Nations,2018-06-06 The Mediterranean diet is attracting international attention as a healthy and sustainable diet yet countries in the region are increasingly beset by problems of undernutrition combined with obesity or other food related diseases This book highlights the need to consolidate the Mediterranean diet as a lever to improve the sustainability of food systems and consumption in the region **Historical Reconstructions of Marine Fisheries Catches: Challenges and Opportunities** Maria Lourdes D. Palomares,Annadel Salvio Cabanban,Daniel Pauly,2019-08-16 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact **Shuttle Safety** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,2004

Handbook of CALL Teacher Education and Professional Development Dara Tafazoli,Michelle Picard,2023-04-26 This comprehensive handbook provides an overview of current trends in computer assisted language learning CALL teacher education and professional development across the globe It highlights theories and practices in CALL teacher education and professional development in five sections such as English language teaching including pre service teachers in service teachers teacher educators material developers course designers and researchers It explores the role of CALL teacher

education and professional development in many underexplored countries such as Africa Asia Eastern Europe and the Middle East It stresses the critical role of professional development programs from the use of technology in its generic sense The theoretical and empirical chapters in the book provide a more inclusive and comprehensive picture of various aspects of CALL teacher education and professional development globally It offers context specific approaches and strategies to language teachers and teacher educators It provides pedagogical implications and suggestions for promoting digital literacy and autonomy in online education This book provides valuable insights for researchers teacher educators and teacher trainers in applied linguistics

Innovative Approaches to Socioscientific Issues and Sustainability Education

Ying-Shao Hsu,Russell Tytler,Peta J. White,2022-08-01 This book explores innovative approaches to teacher professional learning examples of teaching enacted in classrooms and factors affecting the promotion of quality teaching in socio scientific issues and sustainability contexts Since educational settings and cultures influence teaching the different approaches and perspectives in various cross national contexts enable us to appreciate the diversity of different countries practices and provide insight into seminal approaches to socio scientific issues based teaching internationally The book consists of three parts innovative professional development programs innovative teaching approaches and issues relating to student engagement with socio scientific issues and sustainability education The book targets those who can be expected to develop curriculum enact teaching practices and facilitate teachers professional development in socio scientific issues and sustainability education

Developing the Athlete William J. Kraemer,Nicholas A. Ratamess,Thomas Newman,2024-02-27

Over the past decade the complexity of athlete development has increased and sport science has become enthralled with metrics and genetics While an abundance of information has emerged there is still a lack of practical guidance on how to integrate this information with training to help athletes achieve their potential Developing the Athlete An Applied Sport Science Roadmap for Optimizing Performance brings much needed clarity providing a proven blueprint for bringing together the many fields related to sport science via an athlete development team that navigates the day to day development of each athlete Developed by a team of renowned authors including William Kraemer one of the most prolifically published sport scientists in history Developing the Athlete An Applied Sport Science Roadmap for Optimizing Performance is the first resource of its kind It explains the integration of sport science through the development of an athlete development team implementing a process of testing evaluating assessing and monitoring athlete training and performance You will learn how data generated by the athlete development team are translated into training programs that promote the physical and psychological development an athlete needs to compete and succeed at every level of competition You will also find step by step explanations of how to create a testing fingerprint unique to each athlete as well as case studies and success stories that demonstrate how the concepts in the book have been experienced in real life Get a better understanding of how the use of sport science can improve the skills needed for long term athlete development Developing the Athlete An Applied Sport

Science Roadmap for Optimizing Performance will help all types of sport performance professionals prioritize and apply the three Cs credentials competence and commitment so you can tap into known scientific principles and practices to develop a path for success for all your athletes Earn continuing education credits units A continuing education exam that uses this book is also available It may be purchased separately or as part of a package that includes both the book and exam

Roberts & Zuckerman's Criminal Evidence Paul Roberts, Adrian Zuckerman, 2022-08-04 Roberts and Zuckerman's Criminal Evidence is the eagerly anticipated third of edition of the market leading text on criminal evidence fully revised to take account of developments in legislation case law policy debates and academic commentary during the decade since the previous edition was published With an explicit focus on the rules and principles of criminal trial procedure Roberts and Zuckerman's Criminal Evidence develops a coherent account of evidence law which is doctrinally detailed securely grounded in a normative theoretical framework and sensitive to the institutional and socio legal factors shaping criminal litigation in practice The book is designed to be accessible to the beginner informative to the criminal court judge or legal practitioner and thought provoking to the advanced student and scholar a textbook and monograph rolled into one The book also provides an ideal disciplinary map and work of reference to introduce non lawyers including forensic scientists and other expert witnesses to the foundational assumptions and technical intricacies of criminal trial procedure in England and Wales and will be an invaluable resource for courts lawyers and scholars in other jurisdictions seeking comparative insight and understanding of evidentiary regulation in the common law tradition

Complementary & Alternative Therapies in Nursing Ruth Lindquist, Mariah Snyder, PhD, Mary Frances Tracy, 2014 Print CourseSmart [Advances in measuring soil health](#) Professor Wilfred Otten, 2021-06-22 Comprehensive overview of key advances in measuring soil biological physical and chemical properties Particularly strong coverage of developments in measuring soil biological activity including molecular techniques such as next generation sequencing as well as improvements in measuring fauna such as earthworms microbial and fungal communities Focus on ways of using analytical techniques in practice through the use of soil health indicators and decision support systems DSS

Lifestyle Medicine Ifeoma Monye, Adaeze Ifezulike, Karen Adamson, Fraser Birrell, 2021-09-20 LIFESTYLE MEDICINE Written by an interdisciplinary and multinational team of distinguished medical doctors and authors Lifestyle Medicine presents a collection of multiple choice questions MCQs designed to help prepare a new generation of clinicians with the necessary knowledge to practice lifestyle medicine safely and confidently Ideal for anyone preparing for examinations in the new specialty of lifestyle medicine at the postgraduate level and especially useful for those studying for the Diploma in Lifestyle Medicine taking the American Board of Lifestyle Medicine or International Board of Lifestyle Medicine exams you ll find every key aspect of lifestyle medicine in this book 25 questions covering an introduction to lifestyle medicine including definitions the difference between lifestyle medicine and other fields and Physician's Competencies in the practice of lifestyle medicine 62 questions covering the fundamentals of health behaviour

change 47 questions covering key clinical processes in lifestyle medicine including the classification of different lifestyle related illnesses measures of fitness and fitness testing options 88 questions covering nutrition science assessment and prescription including food labels and prescribing nutrition And much much more a total of 531 questions covering all key aspects of lifestyle medicine Perfect for clinicians in virtually any specialty aiming to develop expertise in lifestyle medicine Lifestyle Medicine will also earn a place on the shelves of nurses and other allied health professionals including pharmacists dietitians and nutritionists health educators researchers health coaches and occupational therapists

Head and Neck Critical Illness Hiroyuki Tomita, 2020-12-02 There are various malignant tumors in the head and neck area including oral cavity pharynx sinonasal cavity and salivary glands Squamous cell carcinoma is the most common cancer among head and neck cancers In salivary glands there are many types of malignancies that can develop such as malignant lymphoma adenoid cystic carcinoma adenocarcinoma and mesenchymal tumors In a clinical setting imaging such as computed tomography CT and magnetic resonance imaging MRI is very important in terms of the prediction of the histological type and the evaluation of the extent of invasion of adjacent structures In basic research there are few animal models in head and neck malignancies In this Special Issue we broadly discuss the basic and clinical research in head and neck malignancies

Plant Defense Mechanisms in Plant-pathogen Interactions Hongjie Feng, Huan Peng, Qi Wang, Tao Zhang, 2023-12-14

Hot Topics of Debate on Turner Syndrome: Growth, Puberty, Cardiovascular Risks, Fertility and Psychosocial Development

Ahmet Uçar, Jarod Sze Choong Wong, Feyza Darendeliler, Jeff M. P. Holly, Derek LeRoith, 2019-11-27 Turner syndrome TS is a relatively common chromosomal disorder affecting approximately 1 in 2000 live female births Short stature is the most common clinical presentation of the syndrome it is observed in 80 % to 100 % of the girls with TS Growth is stunted to a variable degree at different phases of childhood and adolescence in TS Although there is consensus on treating growth failure as early as possible there is ongoing research to ameliorate final height in TS girls The co existence of primary ovarian failure in girls with TS further complicates the management of short stature It remains to be determined what is the best age to begin treatment for pubertal induction and or maintenance of puberty the best compound dose or protocol to induce puberty TS patients have increased mortality and morbidity due to cardiovascular CV complications and multiple risk factors for ischaemic heart disease including hypertension insulin resistance and dyslipidaemia The CV phenotype can be better assessed through identification of surrogate risk markers and the relationship of these markers with TS associated traits There are very few comprehensive studies on the dynamics of arterial tree and the associations of these dynamics with influential factors in young TS patients Deregulated signalling within the GH IGF1 axis may extend beyond the realm of physical stature in TS resulting in effects on the CV system and other organ systems Although GH deficiency is associated with CV risk and excess of GH is also associated with increased CV risk Because TS patients receive supraphysiological doses of GH there may be increased risks for CV complications although retrospective studies failed to document such an

association There are still other unknown issues in the area of TS and CV issues such as the definitions of abnormal aortic diameters high blood pressure There is scarce data regarding how we can prevent catastrophic CV events in girls and women with TS There is a call for prospective studies regarding the pathogenesis diagnosis and prevention of CV disease in TS TS patients usually have psychological problems related to self confidence and self respect due to the high burden of health related issues they have to cope with at different stages of life There remains controversy on how to support them to accept their differences and empower them to take an active role in their care This e book intends to provide insight on hot topics of debate in TS The e book is subdivided into small sections to describe the content of the articles such as growth puberty cardiovascular issues metabolic issues autoimmunity cognitive and psychosocial issues to facilitate reading We hope it will serve as a reference tool for clinicians and researchers who are involved in the diagnosis and management of females with TS

Forage crop improvement for improved livestock production and nutrition Chris S. Jones,Jiyu Zhang,Jorge Fernando Pereira,Russell Jessup,2023-01-06

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