TOPIC	GAP(S) IDENTIFIED	EDUCATIONAL NEED(S)
Andrology / Male Infertility	Abnormal semen analysis	Review latest evidence on abnormal semen analysis, particularly morphology
	Recent discoveries in advanced sperm testing	Explore novel tests that evaluate DNA fragmentation and genetic abnormalities in sperm
	Sperm preparation	Discuss updates in density gradient centrifugation, revisit swim-up techniques, and explore new sperm separation methods such as microfluidic sporting
	Implementing WHO 6 th Edition Semen Analysis Recommendations	Interpret the WHO 6 th Edition and how to transition from previous WHO editions
	Severe male factor infertility	Review evidence-based thoughts on when ejaculated sperm is preferred over TESE in severe male factor
		Overcome the logistical challenges of fresh TESE utilization
	Utilization of donor sperm in severe male factor infertility	Work with reproductive psychologists to discern the emotional impact on males needing donor sperm
	Genetic influences in male factor infertility	Understand the genetics and subsequent risks of using those native sperm in male factor infertility
ART	Knowledge of lower-cost and more cost-effective IVF treatment options	Learn how to provide more cost-effective cycles with equal outcomes
		Improve learner understanding of fertility coverage in non-mandated states
	Patient resources	Discover strategies and programs which supply resources that lower patient costs
	IVF trigger options and outcomes	Compare cycle outcomes between Lupron trigger only and co-trigger with hCG and Lupron
ART Laboratory	Training programs for junior	Provide basic training modules, methods, and
	embryologists Assessing the literature	skill development for junior embryologists Improve skills in critical analysis of the published literature including some basic statistical methods
	Managing a diverse team in the lab	Discover strategies to develop high- functioning teams that have generational, gender, racial and cultural differences
	Culture media content	Review the latest information on what constitutes our culture media
	Oocyte and embryo vitrification troubleshooting	Provide a comprehensive review of vitrification including the rationale, instrumentation and techniques

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	Common practices in high-performing	Discover laboratory best practices in high-
	IVF laboratories	performing IVF laboratories including QA/QC
		and policies
	Lack of proficiency in ICSI and embryo	Provide hands-on training to improve skills
	biopsy.	with ICSI and embryo biopsy
	Embryo selection	Discuss current understanding of issues and
		evidence-based algorithms on embryo
		selection
	Lab design, technology adoption, and	Learn about how to update, evaluate and
	upgrades	incorporate new laboratory technologies into
		standard practice
	Extended embryo culture: practical	Review current Day 0-7 embryo culture
	and experimental techniques	methodology, experimental technologies in
		culturing embryos beyond Day 7, as well as
		technical and ethical concerns
	Artificial embryo	Discuss deriving embryos from extended
		cultured embryonic and extraembryonic
		structures, and stem cells
	Artificial gametes: female and male.	Analyze current progress and future
		applications of artificial gametes from
		embryonic and stem cell lineages
	In vitro maturation of gametes	Discover the feasibility of gamete in vitro
		maturation
	Laboratory environment control	Discuss experiences in air quality, toxicity
		detection, and the internal and external
		environment of the ART laboratory
	Laboratory risk and disaster	Review best practices in laboratory safety,
	management teaching and	monitoring systems, contingency plans, and
	implementation	patient material rescue
	Laboratory staff wellness, burn-out,	Evaluate how job security, financial stability, mental health, employee-employer
	morale, and mental wellness	relationships, and professional development
		improve laboratory function
	Tools for laboratory quality	Discuss tools for tracking and improving
	improvement	performance, including key performance
	improvement	indicators (KPIs), checklists, root cause
		analysis, etc.
	Improve embryo biopsy techniques	Demonstrate best techniques for embryo
	p 212 2y2 2eps / cosques	biopsy and troubleshoot difficulties
	Embryo glue	Update learners on the latest with embryo
	, ,	glue
	Improve gamete and embryo culture	Utilize microfluidics and other technologies
	outcomes	to fine-tune gamete and embryo culture
		protocols, as well as in vitro maturation of
		gametes.
Biology of	Tissue engineering and modeling in	Review the latest research in tissue
Reproduction	reproduction	engineering and modeling in reproduction

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	Emerging technology in embryo implantation and uterine receptivity	Review current knowledge and future directions in endometrial implantation science and the embryo-endometrium interaction
	Inner cell mass (ICM), trophectoderm (TE), gene editing, and stem cell therapy to repair defective ICM and TE	Review the mechanisms of differentiated ICM and TE lineages and explore technologies to examine and potentially repair defects during embryo implantation and the earliest stage of pregnancy initiation.
	MicroRNA technology in ART	Assess microRNA-based technology to be used in non-invasive assessment of embryo quality and endometrial receptivity
	Improvement of implantation success	Discuss the latest data on molecular determinants of successful implantation in the human blastocyst and education on how to modify these determinants to improve implantation success
Cost Effectiveness	Optimization of laboratory effectiveness and performance	Understand the balance between cost- effectiveness and performance of laboratory outcomes, address areas to prioritize, and coordinate parties/personnel
Contraception	Male contraception	Review options in development for male contraception and timeline for mainstream use
	Female contraception	Review options in development for female contraception and timeline for mainstream use
	Contraceptives for the treatment of dysmenorrhea	Discuss the efficacy of different birth control methods, including LARCs, at decreasing dysmenorrhea and other menstrual abnormalities
Complementary/ Alternative Medicine	Complementary adjunctive therapeutic options for infertility and, specifically, patients undergoing IVF	Review available data on the roles of acupuncture and other Eastern medicine practices for donor oocyte recipient patients
		Education around holistic fertility options such as nutrition, the role of EDCs in fertility, supplements that enhance fertility, and Eastern Medicine practices.
Counseling	Knowledge of national resources for counseling	Review new resources for mental health counseling such as guided apps and national organizations providing telehealth mental health services
	Counseling patients with poor outcomes and/or prognosis	Learn strategies for delivering bad news to patients in the infertility space; specifically delivering emotionally competent care to patients with multiple failed cycles

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Early Human	Steroid hormone pathway in early	Review the different types, presentations and
Development	human development	evaluations for enzymatic deficiencies in the steroid hormone pathway
Endometriosis	Endometriomas and DIE	Discuss current thoughts from experts on preservation of fertility in endometriosis patients
	Diagnosis of DIE	Study the use of MRI for the diagnosis of DIE and treatment planning
Ethics/ Legal	Embryo management and compliance with legal decisions	Discuss best practices for the safe handling and transport of embryos during IVF and FET to avoid/minimize any legal issues; include disposition, abandonment and transport of embryos across state borders
	Embryo disposition and donation	Explore ways for providers and laboratory leadership to educate staff, administration, and patients on embryo disposition (destruction) and donation of embryos to research
	Diversity, equity & inclusion	Review strategies to create a diverse and equitable environment for all practice staff
	Dobbs decision	Continue study on the impact of the Dobbs decision for patients, infertility practices and implementation of necessary changes in an evolving legal climate
Fertility Preservation	Gender-affirming care and fertility preservation options	Update learners on fertility preservation options in patients seeking gender-affirming care; specific focus on management of hormonal treatment
	Testicular tissue cryopreservation	Review new advances, techniques, and counseling for options in testicular tissue cryopreservation
	Ovarian tissue cryopreservation	Discuss justice, patient counseling, ethical implications, counseling, and cost-effectiveness
		Review utilization in pre-pubertal and adolescent patients with oncofertility concerns
	Sperm cryopreservation for male cancer patients	Discuss options and methods for sperm retrieval
	Oocyte preservation skills	Provide a forum for discussion on guidelines, best practices, and skill development of oocyte preservation

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Genetics/PGT	PGT and its usage	Supply learners with comprehensive information about PGT, and expanded use for polygenic disease
	Non-invasive PGT (niPGT), including cell-free DNA (cfDNA) analysis	Review evidence on non-invasive genetic testing of embryos. Current progress, platforms, cfDNA approaches (blastocele sampling, spent medium, etc.), utilization, and timeframe for routine use. Pros and cons of niPGT vs. traditional PGT
	Embryo mosaicism	Review safety and outcomes of transferring mosaic embryos; give healthcare providers (MDs/lab/RNs) strategies to accurately counsel patients
	Gene editing	Provide education on the current state of gene editing and associated issues
	Embryo aneuploidy and mosaicism and the relationship with genetic mechanisms in gametes	Discuss common genetic conditions that have reproductive consequences for patients
	Impact of epigenetics on ART outcomes	Review research on the effect on the embryo and long-term offspring health
	Polar body testing	Learn about polar body testing, risks and benefits, and review current knowledge
Imaging	Ultrasound training	Educate learners on ultrasound skills (including 3D) and provide hands-on experiences
Infertility	Effect of uterine pathology on fertility	Discuss uterine pathology such as adenomyosis, uterine fibroids, and endometriosis and their effects on fertility
	Decision-making for IVF protocols	Discern strategies for medication protocol decision-making based on fertility history and other patient-specific factors
Leiomyomas	Surgical management of leiomyomas	Compare hysterectomy and uterine preservation, particularly as women approach menopause

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	Non-surgical management	Review options for non-surgical management of uterine fibroids in patients who desire pregnancy; discuss ablation, MRI-US, and embolization with effects on future fertility
	Genetics of leiomyomas	Discuss the genetics of leiomyomas and potential effects on treatment response
Lesbian, Gay, Bisexual, and Transgender	Education on different routes of hormone administration for gender-affirming care	Review the risks and benefits of various routes of hormone administration: effectiveness, adherence, cost, etc. Discuss how gender-affirming care affects fertility
Menopause/ Ovarian Insufficiency	Aging and menopause	Review current research presented at the NAMS conference
Mental Health	Psychosocial effects of delayed puberty	Learn about the psychosocial effects of delayed puberty
	Psychosocial effects of seeking fertility treatment on LGBTQ patients	Gain skills to address the psychosocial concerns of LGBTQ patients seeking fertility treatment
	Psychosocial effects of infertility on patients and staff	Discuss the emotional effects of infertility both on patients and staff caring for these patients
Practice/ Risk Management/ Team-based Care	Practice growth	Discuss strategies for growing a practice in the face of limited resources
Pregnancy/ Pregnancy Loss	Role of weight in pregnancy loss	Learn about weight-based effects on miscarriage rates
		Learn how to incorporate weight management treatment into practice
		Discuss the effects of GLP-1 agonists on early pregnancy
	Preconception recommendations for fertility patients	Review current guidelines for preconception counseling and early pregnancy
Reproductive Surgery	Office procedures for evaluation of patients with infertility	Review hysteroscopy in the office setting: Outcomes, economic implications, patient satisfaction, equipment considerations, and, hands-on sessions

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10110	Cervical Stenosis	Compare surgical approaches and
	CCI VICAI SCENOSIS	management of cervical stenosis prior to
		embryo transfer
	Cesarean section scar isthmocele	Learn about surgical approaches to Cesarean
		section scar separation (isthmocele) and
		indications
	Effect of adenomyosis on fertility	Provide an overview of adenomyosis and its
		relationship to the biology of reproduction
		with a focus on current techniques for
		treatment (medical and surgical)
	Diagnosis and surgical management	Review the MAC2021 Mullerian Anomalies
	of Mullerian anomalies	Classification system and the app.
		Study preoperative preparation, imaging, and
		choice of surgical treatment for
	Tubal suppose to a start of feetile	uterine/vaginal anomalies
	Tubal surgery to optimize fertility	Discuss how to address hydrosalpinges and
		the role of fimbrioplasty
		Review tubal function, evaluation, and impact
		for fertility patients (especially those that
		cannot move forward with IVF)
		Compare situations in which salpingectomy is
		helpful vs. retaining fallopian tubes in
		infertility patients
	Methods to optimize the difficult egg	View examples of abdominal egg retrieval
	retrieval (abdominal) and embryo	and guidelines for its use
	transfer	
		Strategize techniques for difficult embryo
	I Harrier Annuarday to the color of the	transfers, including patients with obesity
	Uterine transplantation, transposition	Discuss candidates, indications, and
	and transgender uterus	techniques for continually evolving uterine
	transplantation Uterine septum	transplantation and other procedures Learn about the current literature on uterine
	Oterine septum	septum management, resection vs. expectant
		management
a		
Stem Cells	Therapeutic applications of stem cells	Review the current application of stem cell
	in reproduction	research as it applies to reproductive
	Drogross and suite alsies stilletes	medicine and future application
	Progress and outlook in utilizing	Consider scientific studies on the current
	artificial gametes and embryos	progress, limitations, ethical concerns, and
		potential timeline for utilization of artificial gametes and embryos
	Long-term preservation of stem cells	Evaluate the efficacy of stem cell
	for clinical use	cryopreservation and storage relative to
		solution and container types used.
		totation and container types used.

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	Application of synthetic biology in reproductive medicine.	Consider data on using synthetic biology to regenerate and repair embryos, tissues, and organs.
	Use of Stem cell-derived gametes	Discuss the use of stem cell-derived gametes and both technical aspects and ethical implications
Technology	Artificial intelligence (AI) in reproductive health: basic concepts, current technology development, and utilization	Review basic concepts in AI and its application in embryo selection, non-invasive PGT, and patient treatment
		Learn how to integrate technology and management tools to streamline and improve patient care
	Knowledge in cybersecurity and data safety	Understand the voluntary use of clinical and laboratory data
		Review best practices in cybersecurity
		Compare hardware and software configurations for on-site and cloud-based solutions
	Social media and the practice of medicine	Consider the best uses for social media in the domain of medicine
Journal Editors	Preparation of journal manuscripts and the review process	Develop skills in manuscript writing, submission and review for clinical and laboratory providers
Miscellaneous	Sexual Health	Learn how to perform a comprehensive sexual health evaluation and provide medical options when appropriate
	Gestational surrogacy and age- related risks	Discuss age as a factor in gestational surrogacy
	Evaluation in children with gynecologic complaints and physical or mental incapacities	Learn new skills in pediatric and adolescent gynecology (vaginal bleeding, trauma) in children with physical or mental incapacities
	Pelvic floor dysfunction	Perform physical examination of the pelvic floor in patients with pelvic pain and review the anatomy
	Health disparities in third-party reproduction	Find and utilize resources to assist in the teaching of minority patients regarding possible biases, fears, and outcomes of IUI and IVF cycles using known and unknown donor sperm and oocytes