

# CURRICULUM VITAE

**Chun-I Lee, M.D.**

**李俊逸**

## Personal Particulars

Family Name: Lee

First Name: Chun-I

Date of Birth: April 2, 1980

Nationality: Taiwanese, R.O.C.

Place of Birth: Taichung City, Taiwan


Marital Status: married

Religion: Not practicing

Telephone No.: +886-4-22347057 (Taichung, Taiwan)

Cell Phone No.: +886-921347253

E-mail: [adoctor0402@gmail.com](mailto:adoctor0402@gmail.com)

<b><u>A. BIOGRAPHICAL SKETCH</u></b>			
CHINESE NAME 李俊逸			
ENGLISH NAME Chun-I Lee			
<b><u>B. EDUCATION/TRAINING</u></b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR</b>	<b>FIELD OF STUDY</b>
National Defense Medical Center, Taiwan.	MD.	2001-2008	Medicine
<b><u>C. EMPLOYMENT</u></b>			
2021-	中山醫學大學醫學系婦產科助理教授		
2018-	中山醫學大學附設醫院婦產部主治醫師		
2021-2022	中山醫學大學附設醫院生殖醫學中心副主任		
2017-2019	中山醫學大學附設醫院大慶產房病房病房主任		
2015-2017	Fellow Resident, Division of Reproductive Endocrinology and Infertility, National Taiwan University Hospital, Taiwan.		
2014-2015	Attending physician, Division of Reproductive Endocrinology and Infertility , Chung-Shan Medical University Hospital, Taiwan.		
2010-2014	Resident, Obstetrics and Gynecology doctor of Tri-service General Hospital , Taiwan.		
<b><u>D. RESEARCH INTERESTS AND EXPERTISE</u></b>			
Reproduction	Endocrinology	Assisted Reproductive Technology	Embryo Biotechnology
<b><u>E. PUBLICATIONS</u></b>			
<b><u>Journal articles</u></b>			
1. Lin PY, Lee CI, Chen YC, Cheng EH, Huang CC, Chen CI, Lee TH, Lee YJ, Lee MS. Factors Affecting the Potential Efficacy of Intrauterine Platelet-Rich Plasma Infusion on Thin			

- Endometrium in Women with Recurrent Implantation Failure. 2023.
2. Huang MC, Tzeng SL, Chen WJ, Chen SL, Ding YR, Lee CI, Lee MS, Lee TH. SUMO1 and Defective Spermatozoa Correlate with Endogenous Hydrogen Peroxide and Live Birth Outcome in Intrauterine Insemination Cycles for Unexplained Infertility. 2023. 14;24(16):12775.
  3. Chen CH, Lee CI, Huang CC, Chen HH, Chang CY, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Increased incidence of live births in implanted day 5 versus day 6 blastocysts following single embryo transfers with PGT-A. 2023. 5;13(1):12725.
  4. Hsu CT, Lee CI, Lin FS, Wang FZ, Chang HC, Wang TE, Huang CC, Tsao HM, Lee MS, Agarwal A. Live motile sperm sorting device for enhanced sperm-fertilization competency: comparative analysis with density-gradient centrifugation and microfluidic sperm sorting. J Assist Reprod Genet. 2023. 40(8):1855-1864.
  5. Hsu CT, Lee CI, Huang CC, Wang TE, Chang HC, Chang LS, Lee MS. Development and integration of LensHooke R10 for automatic and standardized diagnosis for sperm DNA fragmentation. Andrology. 2023. Oct;11(7):1337-1344.
  6. Chen HH, Lee CI, Huang CC, Cheng EH, Lee TH, Lin PY, Chen CH, Lee MS. Biphasic oxygen tension promotes the formation of transferable blastocysts in patients without euploid embryos in previous monophasic oxygen cycles. Sci Rep. 2023;13(1):4330.
  7. Liu YL, Lee CI, Liu CH, Cheng EH, Yang SF, Tsai HY, Lee MS, Lee TH. Association between Leukemia Inhibitory Factor Gene Polymorphism and Clinical Outcomes among Young Women with Poor Ovarian Response to Assisted Reproductive Technology. J Clin Med. 2023 19;12(3):796.
  8. Chen CH, Lee CI, Huang CC, Chen HH, Ho ST, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Blastocyst morphology based on uniform time-point assessments is correlated with mosaic levels in embryos. Front Genet. 2021; 12: 783826.
  9. Hsieh HC, Lee CI, Lai EY, Su JY, Huang YT, Zheng WL, Chen CH, Huang CC, Lin PY, Lee MS, Liu M, Huang YT. Estimating the causal effect of embryo transfer day on clinical in vitro fertilization outcomes using propensity score matching. BMC Pregnancy Childbirth. 2021; 21(1):554.
  10. Lee CI, Su YR, Chen CH, Chang TA, Esther Kuo ES, Zheng WL, Hsieh WT, Huang CC, Lee MS, Liu M. End-to-end deep learning for recognition of ploidy status using timelapse videos. J Assist Reprod Genet. 2021; 38(7):1655-1663.
  11. Weng SL, Tzeng SL, Lee CI, Liu CH, Huang CC, Yang SF, Lee MS, Lee TH. Association between GnRH Receptor Polymorphisms and Luteinizing Hormone Levels for Low Ovarian Reserve Infertile Women. Int J Environ Res Public Health. 2021; 18(13):7006.
  12. Wu CH, Chiu LT, Chang YJ, Lee CI, Lee MS, Lee TH, James Wei CC. Hypertension Risk in Young Women With Polycystic Ovary Syndrome: A Nationwide Population-Based Cohort Study. Front Med (Lausanne). 2020; 7:574651.

13. Lee CI, Cheng EH, Lee MS, Lin PY, Chen YC, Chen CH, Huang LS, Huang CC, Lee TH. Healthy live births from transfer of low-mosaicism embryos after preimplantation genetic testing for aneuploidy. *J Assist Reprod Genet.* 2020; 37(9):2305-2313.
14. Lee CI, Chen HH, Huang CC, Lin PY, Lee TH, Lee MS. Early Progesterone Change Associated With Pregnancy Outcome After Fresh Embryo Transfer in Assisted Reproduction Technology Cycles With Progesterone Level of >1.5 ng/ml on Human Chorionic Gonadotropin Trigger Day. *Front Endocrinol (Lausanne).* 2020; 11:653.
15. Lee CI, Chen HH, Huang CC, Chen CH, Cheng EH, Huang JY, Lee MS, Lee TH. Effect of Interval between Human Chorionic Gonadotropin Priming and Ovum Pick-up on the Euploid Probabilities of Blastocyst. *J Clin Med.* 2020; 9(6):1685.
16. Lin PY, Lee CI, Cheng EH, Huang CC, Lee TH, Shih HH, Pai YP, Chen YC, Lee MS. Clinical Outcomes of Single Mosaic Embryo Transfer: High-Level or Low-Level Mosaic Embryo, Does it Matter? *J Clin Med.* 2020; 9(6):1695.
17. Lee TH, Wu CH, Chen ML, Yip HT, Lee CI, Lee MS, James Wei CC. Risk of Psoriasis in Patients with Polycystic Ovary Syndrome: A National Population-Based Cohort Study. *J Clin Med.* 2020; 9(6):1947.
18. Ho YK, Chen HH, Huang CC, Lee CI, Lin PY, Lee MS, Lee TH. Peripheral CD56+ CD16+ NK Cell Populations in the Early Follicular Phase Are Associated With Successful Clinical Outcomes of Intravenous Immunoglobulin Treatment in Women With Repeated Implantation Failure. *Front Endocrinol (Lausanne).* 2020; 10: 937.
19. Lee CI, Chen CC, Huang CC, Cheng EH, Chen HH, Ho ST, Lin PY, Lee MS, Lee TH. Embryo morphokinetics is potentially associated with clinical outcomes of single embryo transfers in preimplantation genetic testing for aneuploidy cycles. *Reproductive Bio Medicine Online.* 2019; 39(4):569-579.
20. Lee CI, Wu CH, Pai YP, Chang YJ, Chen CI, Lee TH, Lee MS. Performance of preimplantation genetic testing for aneuploidy in IVF cycles for patients with advanced maternal age, repeat implantation failure, and idiopathic recurrent miscarriage. *Taiwanese Journal of Obstetrics and Gynecology.* 2019; 58(2):239-243.
21. Huang MC, Tzeng SL, Lee CI, Chen HH, Huang CC, Lee TH, Lee MS. GnRH agonist long protocol versus GnRH antagonist protocol for various aged patients with diminished ovarian reserve: A retrospective study. *PLoS One.* 2018; 13(11):e0207081.
22. Lee TH, Tzeng SL, Lee CI, Chen HH, Huang CC, Chen SU, Lee MS. Association of progesterone production with serum anti-Müllerian hormone levels in assisted reproductive technology cycles with corifollitropin alfa. *PLoS One.* 2018; 13(11):e0206111.
23. Chang FW, Lee CI, Fan HC, Su HY, Liu YL, Chen CY. *Taiwan J Obstet Gynecol.* The impact of prenatal group B streptococcus screening as a national health policy in Taiwan. 2017; 56(5):648-651.
24. Ho YK, Lee TH, Lee CI, Cheng EH, Huang CC, Huang LS, Lee MS. Effects of growth

hormone plus gonadotropins on controlled ovarian stimulation in infertile women of advanced age, poor responders, and previous in vitro fertilization failure patients. *Taiwan J Obstet Gynecol.* 2017; 56(6):806-810.

25. Lee CI, Lee TH, Huang CC, Chen HH, Liu CH, Lee MS. Detection of early cleavage embryos improves pregnancy and delivery rates of Day 3 embryo transfer during in vitro fertilization. *Taiwan J Obstet Gynecol.* 2016; 55(4):558-62.
26. Lee CI, Chiang KJ, Yu MH, Su HY, Chao TK, Wang YC. Rare case of a paratubal cystadenoma with bilateral hydrosalpinges in an infertile woman. *Taiwan J Obstet Gynecol.* 2014; 53(2):239-40.

### **Conference articles**

1. Lee CI, Chen CH, Huang CC, Chen HH, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Correlations between the artificial intelligence scoring system (iDAScorev1.0) and live birth outcomes in preimplantation genetic testing for aneuploidy cycles. ASRM annual conference 2023.
2. Lee MS, Chen HH, Huang CC, Chen CH, Lee CI, Lin PY, Lee TH. The inner cell mass (ICM) hatching levels of blastocyst before vitrification associated with clinical pregnancy rates after single embryo transfer in PGT-A cycles. ASRM annual conference 2023.
3. Yang PF, Lee CE, Cheng EH, Lin YP, Tsai HN, Lee TH, Lee CI, Lee MS, Wu CC. A multi-dissolved oxygen array chip integrated with concentric stair-like microstructures for rapid estimation of embryo respiratory activity. TSRM annual conference 2023.
4. Chen CH, Lee CI, Huang CC, Chen HH, Chang CY, Hsieh AY, Cheng EH, Lin PY, Lee TH, Lee MS. Correlations between the artificial intelligence scoring system and live birth outcomes in mosaic single embryo transfer cycles. TSRM annual conference 2023.
5. Chen HH\*, Huang CC, Chen CH, Lee CI, Lin PY, Lee TH, Lee MS. Assessment of aneuploidy formation in blastocysts resulting from vitrified donor eggs and the necessity of the embryos for PGT-A. TSRM annual conference 2023.
6. Lee YJ, Lee CY, Cheng EH, Lee TH, Lee CI, Lin PY, Chen CI, Yang EP, Lee MS. Mechanism of microRNA regulating in successful pregnancy on receptive implantation window. TSRM annual conference 2023.
7. Lin YP, Cheng EH, Lee CI, Lin PY, Lee TH, Huang CC, Lee MS. The impact on clinical outcomes of IVF with PGT-A on different biopsy strategies. TSRM annual conference 2022.
8. Chen HH, Huang CC, Chen CH, Lee CI, Lin PY, Lee TH, Lee MS. The inner cell mass (ICM) hatching levels of blastocyst before vitrification associated with clinical pregnancy rates after single embryo transfer in PGT-A cycles. TSRM annual conference 2022.
9. Chen CH, Lee CI, Chang CY, Chen HH, Huang CC, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Increased incidence of live birth in single embryo transfer cycles of day 5 versus day 6 blastocysts after preimplantation genetic testing for aneuploidy. TSRM annual conference

2022.

10. Lee CI, Lee YJ, Cheng EH, Tsao HM, Huang CC, Lee TH, Lin PY, Chen CI, Yang SF, Lee MS. rs2277698 Single nucleotides polymorphisms in tissue inhibitors of metalloproteinases 2 (TIMP2) affected clinical outcomes of women undergoing in vitro fertilization. ESHRE annual conference 2022.
11. Chen YT, Chen CH, Lee CI, Huang CC, Chen HH, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Predicting the formation of euploid blastocysts with satisfactory morphokinetics using morphological evaluation of day 3 embryos. TSRM annual conference 2021.
12. Chen HH, Lin PW, Huang CC, Chen CH, Lee CI, Lin PY, Lee TH, Lee MS. Association between serum hormone levels on transfer day and live birth outcomes after artificial frozen-thawed blastocyst transfer cycles . TSRM annual conference 2021.
13. Chen CH, Lee CI, Huang CC, Chen HH, Ho ST, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. A time-lapse imaging assay to evaluate the correlation of embryo diploid-aneuploid levels with cleavage dysmorphisms, blastocoel formation kinetics, and blastocyst morphology. TSRM annual conference 2021.
14. Liu YL, Liu CH, Lee CI, Cheng EH, Yang SF, Lee MS, Lee TH. Association between leukaemia inhibitory factor gene polymorphism and clinical outcomes after assisted reproduction techniques among poor ovarian responder of young infertile women. TSRM annual conference 2021.
15. Lee CI, Su JY, Chen CH, Kuo EH, Hsieh HC, Huang CC, Cheng EH, Lee TH, Lee MS, Liu M. Integration of heterogeneous data in machine learning for aneuploidy prediction. TSRM annual conference 2021.
16. Chen YT, Chen CH, Lee CI, Huang CC, Chen HH, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Predicting the formation of euploid blastocysts with satisfactory morphokinetics using day 3 morphological evaluation. TAOG annual conference 2021.
17. Ho ST, Chen CH, Lee CI, Huang CC, Chen HH, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. Morphology grading scores are negatively associated with aneuploid levels in biopsied blastocysts. TSRM annual conference 2020.
18. Chen HH, Huang CC, Chen CH, Lee CI, Cheng EH, Lee TH, Lee MS. The extended culture of ultra-low oxygen tension (2% O<sub>2</sub>) increases the number of good quality and euploidy blastocyst. TSRM annual conference 2020.
19. Chen CH, Lee CI, Huang CC, Ho ST, Chen HH, Cheng EH, Lin PY, Chen CI, Lee TH, Lee MS. The KIDscore™ D5 algorithm is capable of selecting the embryos with pregnancy potential in preimplantation genetic testing for aneuploidy cycles. TSRM annual conference 2020.
20. Chen HH, Chen CI, Lee TH, Lee CI, Lin PY, Huang CC, Lee MS. The effect of oocyte vitrification time on survival rate in oocyte donation cycles. TAOG annual conference 2020.
21. Lee CI, Chen CH, Huang CC, Cheng EH, Chen HH, Ho ST, Lin PY, Chen CI, Lee TH, Lee

- MS. Delayed blastulation significantly reduce the clinical pregnancy rate in euploid single embryo transfer cycles. TAOG annual conference 2020.
22. Lee CI, Chen CH, Huang CC, Cheng EH, Ho ST, Chen HH, Lin PY, Lee MS, Lee TH. Non-invasive embryo selection of time-lapse morphokinetics potential to improve clinical outcomes in euploid single embryo transfer cycles. TSRM annual conference 2019.
  23. Chen HH, Huang CC, Cheng EH, Lee CI, Chen CH, Lee TH, Lee MS. The effect of ultra-low oxygen tension (2% O<sub>2</sub>) in extended culture on embryo development and blastocyst euploidy rate. TSRM annual conference 2019.
  24. Lee CI, Chen CH, Huang CC, Cheng EH, Ho ST, Chen HH, Lin PY, Lee MS, Lee TH. Embryonic morphokinetics is potentially associated with clinical outcomes of single embryo transfers in pre-implantation genetic testing for aneuploidy cycles. ESHRE annual conference 2019.
  25. Cheng EH, Lee CI, Lin PY, Chen YC, Pai YP, Shih HH, Huang CC, Lee TH, Chen CI, Huang LS, Lee MS. Healthy live births following single mosaic blastocyst transfers by preimplantation genetic testing. TAOG annual conference 2019.
  26. Lee CI, Chen CH, Huang CC, Cheng EH, Chen HH, Lee TH, Chen CI, Huang LS, Lee MS. Effects of the retrieved oocyte number on euploidy rates in blastocysts analyzed with high resolution-next generation sequencing. TSRM annual conference 2018.
  27. Chen HH, Huang CC, Cheng EH, Lee CI, Lee TH, Lin PY, Lee MS. The interval between human chorionic gonadotropin (hCG) priming and oocyte retrieval effects blastocyst euploidy rate in PGS cycles . TSRM annual conference 2018.
  28. Chen CH, Lee CI, Huang CC, Cheng EH, Ho ST, Chen HH, Lin PY, Chen CI, Lee TH, Lee MS. The timings of early blastocyst (< 79.5 h) and full blastocyst (< 91.5 h) formation significantly affects the clinical outcomes in euploid single embryo transfer cycles. TSRM annual conference 2018.
  29. Chen HH, Chen CI, Lee TH, Lee CI, Lin PY, Huang CC, Lee MS. The effect of oocyte vitrification time on survival rate in oocyte donation cycles. TAOG annual conference 2018.
  30. Chen CH, Lee CI, Huang CC, Ho ST, Chen YC, Chen HH, Lee TH, Chen CI, Huang LS, Lee MS. The clinical outcomes of single embryo transfers with euploid embryos selected by the morphokinetic KIDScore™ D5 model. TAOG annual conference 2018.
  31. Huang CC, Chen HH, Lee CI, Lee MS. Progesterone ratio as a predictor in the ART Cycles with premature progesterone elevation on the day of hCG trigger. ESHRE annual conference 2017.
  32. Chen CH, Huang CC, Chen YT, Chen HH, Lee CI, Chen CI, Lee TH, Huang LS, Lee MS. The effects of meiotic spindle deviation angles on fertilization and embryo quality in women over 38 years of age. TSRM annual conference 2017.
  33. Lee CI, Chen CH, Huang CC, Ho ST, Chen HH, Lee TH, Chen CI, Huang LS, Lee MS. The clinical efficiency of single embryo transfers in combination with morphokinetics and

preimplantation genetic screening. TSRM annual conference 2017.

34. Lee CI, Chen CH, Huang CC, Chen HH, Huang LS, Lee TH, Chen SU, Lee MS.

Developmental potential and preimplantation genetic screening of embryos assessed by the KIDScore™ D3 basic model: a pilot study on the use of a time-lapse system for clinical application. TSRM annual conference 2016.