



WEATHERFORD EQUINE BREEDING CENTER
6375 MINERAL WELLS HWY · WEATHERFORD, TX 76088
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Oocyte Services

Weatherford Equine (WE) is very experienced in providing for all the needs associated with collecting oocytes from your mare to undergo ICSI fertilization.

Overview of the Process for Utilizing ICSI

The first step of the ICSI procedure is to recover oocytes from your mare. The oocytes are recovered by transvaginal follicular aspiration (TVA). In this procedure, using ultrasound guidance, a needle is used to aspirate follicles present on her ovary. The procedure is performed with your mare standing in the stocks under sedation and takes 15-60 minutes depending on how many follicles are being aspirated. This can be done as an outpatient procedure.

Once the oocytes have been collected they are carefully processed, packaged and sent to a reputable equine ICSI lab for fertilization.

The next step occurs at the ICSI lab and requires a small amount of semen that can be fresh or frozen depending on availability. We have strong working relationships with all the top equine ICSI labs in the country and can assist in coordinating semen delivery so that it arrives when it is needed.

Once ICSI fertilization has been completed and a healthy embryo is cultured at the laboratory (process takes 7-10 days) the resulting embryos will need to be implanted into recipient mares. We work closely with the ICSI labs to coordinate shipping them back to Weatherford Equine for transfer, or to the recipient facility of your choice. If ICSI is performed in the off-season, or if excess embryos develop, the embryos can be vitrified and the shipping is coordinated at a later time.

Mature vs. Immature Oocytes and Anticipated Results

There are 2 approaches for obtaining mature oocytes for the ICSI procedure.

Preovulatory (Mature) Aspiration: A large dominant follicle is aspirated right before the mare ovulates in her cycle.

- This method allows the mare to "mature" the oocyte in a natural setting, her body
- These oocytes typically have a higher likelihood of becoming a transferable embryo (~40%) but there is typically only one dominant follicle to aspirate per session
- This can be done every time the mare cycles, approximately every 14 days but does require that she be cycling

Immature Aspiration: All the follicles present on the mare's ovary are aspirated regardless of where she is at in her cycle

- The immature oocytes require further maturation in the lab. Then, once mature (~65% of the oocytes collected), the oocyte is fertilized similarly to a mature preovulatory oocyte
- These oocytes don't have as high of likelihood of becoming transferable embryos (~20%), but typical immature aspiration sessions at Weatherford Equine will yield an average of 8 immature oocytes

- This approach can potentially be done every 14 days and the mare does not have to be cycling, she only needs to have multiple follicles present, sometimes it is beneficial to wait longer between sessions to allow more follicles to develop

Statistically there is a much higher chance of achieving pregnancies via the immature aspirations but this is dependent on the mare having a large number of follicles. Some mares may not be good candidates for immature aspiration and can only be done using the pre-ovulatory method.

In 2016 WE had an overall average of just over one blastocyst produced per immature aspiration session.

Every donor mare is different and results can vary considerably

Combination Aspiration: In the event there are a large number of small follicles present at the same time as a large dominant follicle both the Immature and Preovulatory aspirations can be performed at the same time allowing the benefits of both. *(This will require two separate ICSI sessions and will likely be billed as two separate charges)*

Potential risks of the TVA and ICSI procedures

TVA is not a benign procedure. However statistically there is very little risk associated with TVA and ICSI but as with any procedure there can be complications. Potential complications include but are not limited to rectal tear, severe internal bleeding, ovarian infection/abscess, and peritonitis. Again these are rare but possible complications associated with these procedures and could be potentially life threatening.

TVA is a relatively new clinical procedure and we are still gathering information about the effect of repeated TVAs on the subsequent fertility of mares. To date, the studies published have shown repeated TVAs do not have any negative impact on fertility and we have not observed any negative effects on mares in our program.

Anticipated Costs

Every case is different but in general you can expect to pay \$2,500-\$3,500 to produce a viable embryo to implant into a recipient. This estimate includes:

- Aspiration of oocytes from your mare
- Packaging and shipping recovered oocytes to an ICSI lab
- Culture of oocytes at the ICSI lab
- ICSI fertilization of mature oocytes
- Culture of embryos
- Shipment of embryos back to WE

Please note this does not include the price of a pregnant recipient, which will be dependent on the transfer facility you choose. For specific prices please refer to the WE Oocyte Fee Schedule and the ICSI contract for the ICSI lab being used.

ICSI labs we are currently working with

Texas A&M - College Station, TX

InFoal Inc. - Hemet, CA

Colorado State University - Fort Collins, CO

Equine Medical Services - Columbia, MO

2017 OOCYTE FEE SCHEDULE AND ICSI MARE COMMON CHARGES

Procedure	Unit Price
Aspiration Fees	
Mature oocyte aspiration*	\$550
Immature oocyte aspiration *	\$975
Combined pre-ovulatory/immature oocyte aspiration*	\$1,050
Post Mortem Fees	
Ovary dissection/oocyte collection	\$650
Shipping Fees	
Mature oocyte via FedEx using active control incubator	\$275
Imm. oocytes via FedEx using active control incubator	\$200
Courier (Texas A&M) using active control incubator	\$275
Airline using active control incubator	\$300

*All aspirations include:

- Sedation, antibiotics, and anti-inflammatories **at the time of procedure**
- Processing follicular aspirate for oocyte recovery
- Packaging of oocytes for transport

NO CHUTE FEE FOR ICSI MARE MANAGEMENT: CHARGED PER SERVICE

Boarding	
Dry mare	\$19
-with turnout	\$21
Wet mare	\$22
-with turnout	\$25
Services	
Ultrasound	\$28
Uterine lavage (<i>price dependent on antibiotics used</i>)	\$55+
Uterine infusion (<i>price dependent on antibiotics used</i>)	\$35+
Recipient Mare	
ICSI embryo implanted (<i>non-refundable</i>)	\$250
Successful pregnancy @ 35 days*	\$3,000

* Once the recipient mare is 35 days pregnant she will put on board at a rate of \$12/day until she is picked up. Recipient mare charge plus any board charges are due in full at time of pickup.



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OOCYTE ASPIRATION CONTRACT

Weatherford Equine Breeding Center, hereinafter WE, agrees to perform transvaginal oocyte aspiration procedures for the donor mare listed below. All viable collected oocytes will be shipped to an appropriate ICSI lab for further processing of oocytes in an attempt to create a viable embryo.

Owner: _____ Donor Mare: _____
 Address: _____ Contact: _____
 _____ Preferred Embryo Facility: _____

By entering into this contract the Owner agrees to the following:

1. To pay WE for each transvaginal oocyte aspiration performed on this mare (see Fee Schedule)
2. To pay for shipment of oocytes to the ICSI lab of owners choice (see Fee Schedule)
3. To pay all veterinary fees associated with routine or emergency care of donor mare and/or foal.
4. WE makes no guarantees, warranties, or representations as to the success or outcome of the transvaginal oocyte aspiration procedures herein contemplated.
5. Transvaginal oocyte aspiration is not without some risk to the mare. The owner accepts all potential procedural risks including any complications that may develop as a result of this procedure and accept that such complications may incur additional fees. Owner has been made aware of common potential complications of this procedure and acknowledges that post-procedural care may be required and will be undertaken as deemed necessary by WE.
6. The Owner will release and hold WE harmless from any claim, demand or loss arising from any disease, injury or death to the Donor Mare and/or foal and/or in utero foal arising out of any undertaking by WE. Further, Owner shall exonerate, protect, indemnify, defend, and hold harmless WE and its Lessors(s) of the mare(s), from and against any and all liabilities, expenses, claims, fines, penalties, costs, attorney’s fees, and damages of every kind including, without limitation, those arising out of or attributed, directly or indirectly, to or resulting from any and all negligent acts or omissions of Donor Mare Owner, or of any person while the mare(s) are under Donor Mare Owner’s possession or control.
7. The person signing this Contract represents and warrants that he/she is the true and lawful owner of the Donor Mare, or if not the owner, then has actual authority to act as Owner’s agent for purposes of entering into this Contract, and to make any and all decisions regarding the animal and its veterinary care.
8. All charges will be due within 30 days of receipt of invoice and if account becomes delinquent, interest at a rate of 1.8% per month will be applied to account and all further services can be terminated at the discretion of WE until account is settled.
9. Owner agrees to pay all charges in full before removing the donor mare.

Preferred method of oocyte recovery (*circle*): Immature • Pre-ovulatory • WE's Discretion

Preferred ICSI Lab (*circle*): A&M • EMS • CSU • WE's Discretion

Signature of Donor Mare Owner or Agent: _____ Date: _____

ICSI MARE INFORMATION SHEET

1. Primary person to contact regarding this mare:

Name: _____

Address: _____

Phone: _____

Email: _____

2. Stallion to be used for ICSI:

Stallion 1:

Stallion 2:

3. Desired embryo transfer facility: _____

4. On arrival please provide copy of:

Completed stallion contract

Mare's registration papers

Current coggins