

**Fertility2023**  
10-13 January 2023  
ICC Belfast

**ARCS**  
Association of Reproductive & Clinical Scientists



British  
Fertility  
Society



Society for  
Reproduction  
and Fertility

## ABSTRACT SUBMISSION ACKNOWLEDGEMENT

Thank you for submitting your abstract for the Fertility Conference 2023

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### Membership

Please state which fertility society/societies you are a member of:

ARCS x

### Prizes

The presenting author must fit the criteria for the selected prize. Please see criteria and prize information [here](#).

Please confirm which prize you would like your abstract to be considered for ARCS Post-Registration

### Ethics

Has ethics committee approval been sought, or animal legislation if required? Not applicable

### Elsewhere

Will your presentation be given elsewhere prior to this conference? If so, please state below  
Submitted abstracts can be presented elsewhere but must be unpublished.

## Authors

Please confirm all authors have approved this abstract and the abstract is your responsibility Yes

## Publish

I give permission for my abstract to be published on the Fertility website, in Human Fertility and in the conference abstract book Yes

### Abstract Title:

Lean management in the IVF clinic: using technology to eliminate wasted time in IVF lab processes whilst maximising value to patients

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### Abstract text:

Introduction To assess the amount of time embryologists spend during an average IVF cycle and explore how technology can be used to lean processes whilst improving standards of care. Methods 6 lab directors from 6 clinics from three countries (2 UK, 1 Spain, 3 USA) were interviewed to quantify the steps in a typical IVF cycle by following their current procedures. The lab directors were then asked to estimate the time required if they were to implement the following technologies fully integrated with CHLOE-EQ: time-lapse, electronic witnessing, electronic medical record. The total amount of time before and after CHLOE-EQ integration was compared, and the savings extrapolated to estimate their value in hourly, cycle capacity and monetary terms. Results Overall, the average time required per cycle before CHLOE-EQ was 15.9 hours and after CHLOE EQ was 9.4 hours, an average 41% reduction in time required per cycle ( $p < 0.001$ ). Before CHLOE EQ, the fastest clinic needs an average of 7.7 hours per cycle, whilst the slowest needed an average of 31.5 hours per cycle. On average, cycles in the USA were more time consuming than those in Europe (mean+st dev: 20+-10 vs. 12+-5 hours,  $p < 0.001$ ). After CHLOE-EQ, the fastest clinic needed an average of 6.2 hours per cycle, whilst the slowest needed an average of 13.1 hours per cycle. CHLOE-EQ integrations reduced the variation in time per cycle between clinics compared to before CHLOE-EQ implementation ( $p < 0.001$ ). CHLOE-EQ implementation had a direct association with reduction in cost per cycle, reduction in risk, increase in capacity of cycles per embryologist. The amount saved was associated with the size of the clinic and the average salary of embryologists. Conclusion Introducing fully integrated digitised technologies into clinical practice can increase efficiencies, reduce risk, reduce cost and improve standards of care.

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## References

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## Category

Fertilisation and embryo

### Presentation Format:

Either oral or poster

### Rapid poster presentations

If your presentation is selected for poster presentation you will have the opportunity to discuss your work through several rapid poster sessions.

These will be scheduled during the breaks throughout the event. There will be a dedicated poster presentation area in the exhibition area. Eight posters will be presented in each session with a maximum of 3 minutes to present your poster. This is the only opportunity to have live face to face interaction with delegates about your poster. You will also have the opportunity to answer delegate questions via the online platform throughout the conference.

Please confirm your participation below.

I wish to take part in the rapid poster presentations  Yes

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