**Additional file 4** Linear mixed model analysis of blastocyst expansion surface measurements over time compared between different ovarian stimulation protocols and different culture media

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| --- | --- | --- |
|  | **Model 1** **Beta [95% CI]****µm2** | **Model 2** **Beta [95% CI]****µm2** |
|  | **GnRH-antagonist** | **p-value** | **GnRH-agonist** | **Sage 1** | **p-value** | **Vitrolife G-TL** |
| **Surface** | -336.3 [-784.6 to 112.1] | 0.141 | ref | 269.6 [-159.2 to 698.4] | 0.217 | ref |

Beta’s are reported as estimates in µm2.Model 1: Comparison of blastocyst surface between embryos resulting from a GnRH-antagonist or –agonist ovarian stimulation protocol, adjusted for tB; Model 2: Comparison of blastocyst surface between embryos cultured in Sage 1 (Origio/Cooper Surgical, Trumbull, CT, USA) or Vitrolife G-TL (Vitrolife, Göteborg, Sweden) culture medium, adjusted for tB. A p-value of <0.05 was considered significant. Abbreviations: tB, time to full blastocyst.