



**AMERICAN SOCIETY FOR
REPRODUCTIVE MEDICINE**



American Society for Reproductive Medicine 2015 Annual Meeting
October 17 to 21, 2015 • Baltimore, Maryland

Title:

CAN PERSONALITY TRAITS PREDICT THE LIKLIHOOD OF A DONOR SUCESSFULLY COMPLETING A DONATION CYCLE?

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Objective:

Women who participate in an oocyte donation program must diligently comply with pre-screening requirements as well as frequent visits during ovarian stimulation and retrieval. Most selected donors fulfill their obligations, but if they unexpectedly withdraw from participation, it may lead to emotional and financial consequences to the recipients. This study sought to evaluate donors who withdrew from our ovum donation to discern if there were associated predictive personality traits that could have been prospectively noticed.

Design:

Retrospective analysis

Materials and Methods:

Women who participated in an ovum donation program and took the Minnesota Multiphasic Personality Inventory (MMPI) exam from April 2010 to March 2015 were included. Personality traits were assessed by numerical scoring for each of the following categories: Lie (L), Defensiveness (K), Infrequency (F), Hypochondriasis (HS), Depression (D), Hysteria (HY), Psychopathic Deviate (PD), Masculinity/Femininity (MF), Paranoia (PA), Psychasthenia (PT), Schizophrenia (SC), Hypomania (MA), and Social Introversion (SI). Cohorts were segregated by status of cycle obligation (“Complete-Oocytes Retrieved”; “Incomplete-Dropout”). A random-number generator was used from a larger subset to isolate the “Complete-Oocytes Retrieved” group.



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Results:

Sixty oocyte donors were evaluated and MMPI was deemed valid and acceptable based on program criteria. Of the MMPI taken by both who completed (n=45) and did not complete (n=15) donation cycles, no statistical difference between the 13 personality characteristics was observed. A difference in the PA category was detected, although it did not reach significance.

Table:

	Complete – Oocytes Retrieved	Incomplete - Dropout
n-value	45	15
L	58.24 ± 14.13	58.38 ± 14.37
F	47 ± 8.89	46.2 ± 6.43
K	58.96 ± 9.15	59.67 ± 9.42
HS	45.11 ± 5.83	46.4 ± 5.01
D	42.91 ± 5.68	44.4 ± 6.67
HY	46.09 ± 7.62	50.27 ± 7.5
PD	50.36 ± 7.43	50.13 ± 5.44
MF	41.87 ± 9.42	45 ± 10.84
PA	48.6 ± 7.4	52.53 ± 5.36
PT	46.56 ± 6.25	46.97 ± 5.47
SC	48.18 ± 6.51	49.67 ± 4.51
MA	51.04 ± 8.69	50.67 ± 7.17
SI	39.8 ± 7.39	41.47 ± 9.76

Conclusion:

The MMPI test does not prospectively predict donor compliance to protocols and obligations in an ovum donation program. Donors demonstrated relatively consistent personality traits. Donors who scored the highest on the “hysteria” and “paranoia” scale were less likely to complete the process. These characteristics are common in individuals who display hypervigilance in social interactions, and have a tendency to be apprehensive to interpersonal communication and resist authorities’ direction. Although the MMPI did not find a differentiation in donors’ personality traits, future studies that evaluate alternative personality or psychopathology could assist in identification of appropriate donors who will be compliant with all participation requirements.