CASE STUDY
Fontan Udenafil Exercise Longitudinal Assessment Trial (FUEL)

ABOUT THE STUDY

Trial: NCT02741115  
Activation: Jan 31, 2017  
Type: Pharma-sponsored

Jennifer Chang, clinical coordinator at Cedars-Sinai Heart Institute, had to find eight eligible patients for a study evaluating udenafil, an orally administered inhibitor of PDE5 for the treatment of patients who have undergone the Fontan procedure, a surgical procedure for children with only a single functional ventricle in the heart.

TRADITIONAL ROUTE: TWO PATIENTS, SIX MONTHS

Jennifer and team searched six months for patients, but were coming up empty-handed apart from one of the principal investigator’s patients and a walk-in patient who had self-identified as a potential participant.

RESULTS AT A GLANCE

<table>
<thead>
<tr>
<th>Traditional methods</th>
<th>IDENTIFIED</th>
<th>VALIDATED</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>6 months</td>
</tr>
<tr>
<td>Deep 6 AI</td>
<td>19</td>
<td>16</td>
<td>1 hour</td>
</tr>
<tr>
<td>Criterion change</td>
<td>+4</td>
<td></td>
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“I was so happy with the results. It was more than I anticipated, all under an hour’s work. Thank you so much!”

Jennifer Chang, Clinical Coordinator, Cedars-Sinai Heart Institute
A NEW APPROACH: A LITTLE HELP FROM AI

Deep 6 AI’s cohort builder tool was recently rolled out to six departments across Cedars-Sinai Medical Center, including the Cedars-Sinai Heart Institute. Jennifer built a query in the tool using the protocol inclusion and exclusion criteria and identified 19 patients. Using Deep 6 AI’s evidence timeline, Jennifer validated 16 patients as being eligible for her trial, eight times more patients than had been previously found. The entire process took less than an hour.

A SMALL CHANGE LEADS TO FOUR MORE PATIENTS

After changing a “soft” criterion in her query, Jennifer found another four patients. The team received IRB approval to contact all identified and validated patients and is currently reaching out to recruit them for the trial.

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WANT TO SEE HOW DEEP 6 AI WORKS ON YOUR TRIALS?
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