

## Supplementary Online Content

Callahan KP, Mueller R, Flibotte J, Largent EA, Feudtner C. Measures of utility among studies of genomic medicine for critically ill infants: a systematic review. *JAMA Netw Open*. 2022;5(8):e2225980. doi:10.1001/jamanetworkopen.2022.25980

**eTable.** Included Studies and Extracted Results

**eFigure.** Association Between Sample Size and Utility

**eReferences**

This supplementary material has been provided by the authors to give readers additional information about their work.

## Supplemental Material

### eTable. Included Studies and Extracted Results

Counts represent number of reported patient cases that align with each category of utility.

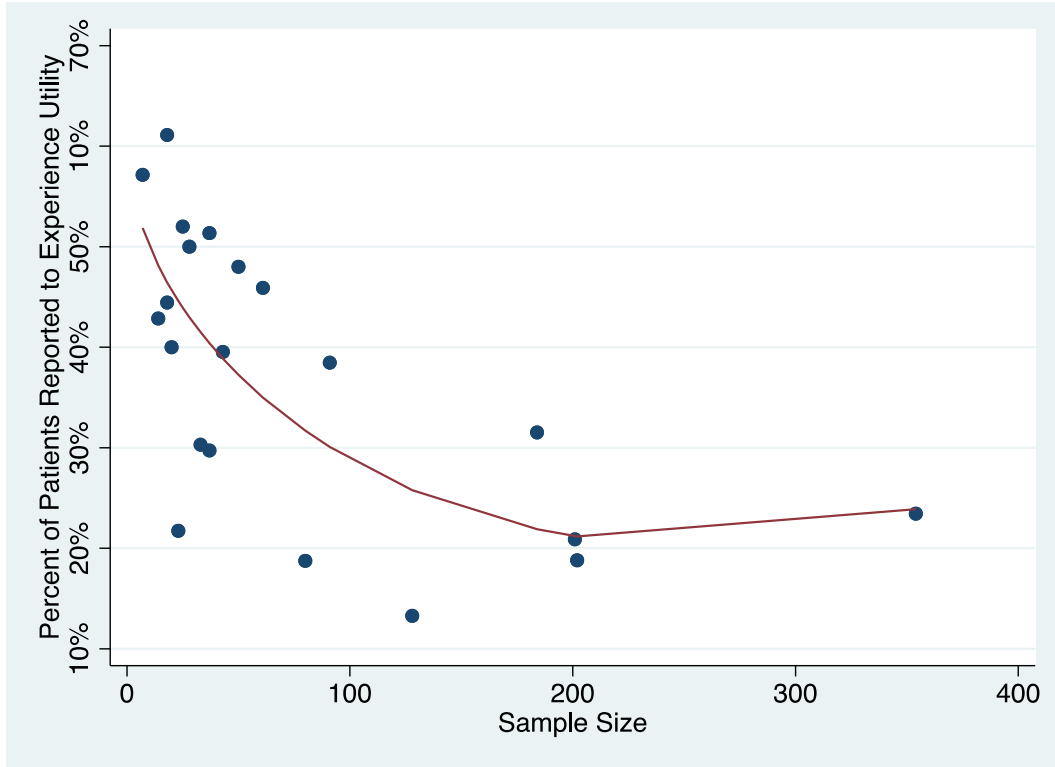
First Author	Year	Setting	Inclusion Criteria	Patients Tested	Patients with Positive Results	Result had Utility	Result Changed Treatment	Result Led to Screening/ Subspecialty Referral	Results Informed Reproductive Counseling	Results informed Prognosis	Results Led to Redirection of Care
Daoud <sup>1</sup>	2016	NICU	Genetics consult	20	8	8	2	.	2	2	2
Stark <sup>2</sup>	2016	NICU, PICU, other inpatient unit	Suspected known monogenic disorder	80	46	15	8	10	28	.	.
Bourchany <sup>3</sup>	2017	NICU, PICU, prenatal clinic	Suspected genetic etiology	14	6	6	0	0	6	2	.
Van Diemen <sup>4</sup>	2017	NICU, PICU	Specified symptom patterns	23	7	5	.	.	2	.	5
Mestek-Boukhibar <sup>5</sup>	2018	NICU, PICU	Suspected genetic etiology, diagnosis expected to alter management	18	8	8	2	.	8	8	0
Petrikin <sup>6</sup>	2018	NICU, PICU	Suspected genetic etiology or unusual therapy response	37	12	11	4	7	9	.	.

<b>Elliott<sup>7</sup></b>	2019	NICU	Specified symptom patterns	25	15	13	2	7	1	3	2
<b>French<sup>8</sup></b>	2019	NICU, PICU	Suspected monogenic etiology	128	19	17	1	13	5	.	3
<b>Sanford<sup>9</sup></b>	2019	NICU, PICU	Suspected monogenic etiology	7	4	4	1	0	.	.	3
<b>Wu<sup>10</sup></b>	2019	NICU, PICU	Suspected genetic etiology	28	14	14	9	.	3	3	2
<b>Freed<sup>12</sup></b>	2020	NICU, PICU	Suspected genetic etiology per committee review*	43	21	17	13	8	.	2	3
<b>Smigiel<sup>11</sup></b>	2020	NICU, PICU	Specified symptom patterns	18	13	11	1	2	13	0	8
<b>Wang<sup>13</sup></b>	2020	NICU, PICU	Suspected genetic etiology per geneticist review	33	23	10	10	.	.	.	9
<b>Gubbels<sup>14</sup></b>	2020	NICU	Specified symptom patterns	50	29	24	7	20	17	3	6
<b>AGHAACF<sup>15</sup></b>	2020	NICU, PICU	Genetics consult	91	49	35	1	14	.	.	14
<b>Dimmock<sup>15</sup></b>	2020	NICU, PICU	Suspected genetic etiology or unusual therapy response	201	45	42	21	14	34	84	2

<b>Wu<sup>17</sup></b>	2021	NICU, PICU	Suspected genetic etiology	202	74	38	13	24	.	.	7
<b>Dimmock<sup>18</sup></b>	2021	NICU, PICU	Unknown etiology or unusual therapy response	184	74	58	56	.	.	.	.
<b>Krantz<sup>19</sup></b>	2021	NICU, PICU	Suspected genetic disease	354	111	83	24	39	.	.	4
<b>Scholz<sup>20</sup></b>	2021	NICU, PICU	Unknown etiology	61	28	28	8	11	28	3	.
<b>Kamolvisit<sup>21</sup></b>	2021	NICU, PICU, adult ICU	Unknown etiology	37	20	19	8	.	.	.	.

**eFigure. Association Between Sample Size and Utility**

Each point represents a study and the fitted line represents a fractional polynomial model.



## eReferences

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