**Supplemental Digital Content Appendix 4:**  Broad-Scale Informed Consent Implementation Systems

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| --- | --- | --- | --- | --- | --- |
| **Domain** | **Electronic Health Record****N (%)** | **Patient Portal****N (%)** | **Clinical Trial Management System (CTMS)****N (%)** | **Billing System****N (%)** | **Other****N (%)** |
| Participant Contact (N=31) | 22 (71%) | 18 (58%) | 7 (23%) | 0 | 9 (29%) |
| Biospecimen (N=25) | 13 (57%) | 8 (35%) | 5 (22%) | 0 | 10 (44%) |
| Clinical Data (N=26) | 20 (80%) | 5 (20%) | 6 (24%) | 0 | 7 (28%) |