



SIMPLER

Simultaneous Preventative Healthcare, Education, & Research

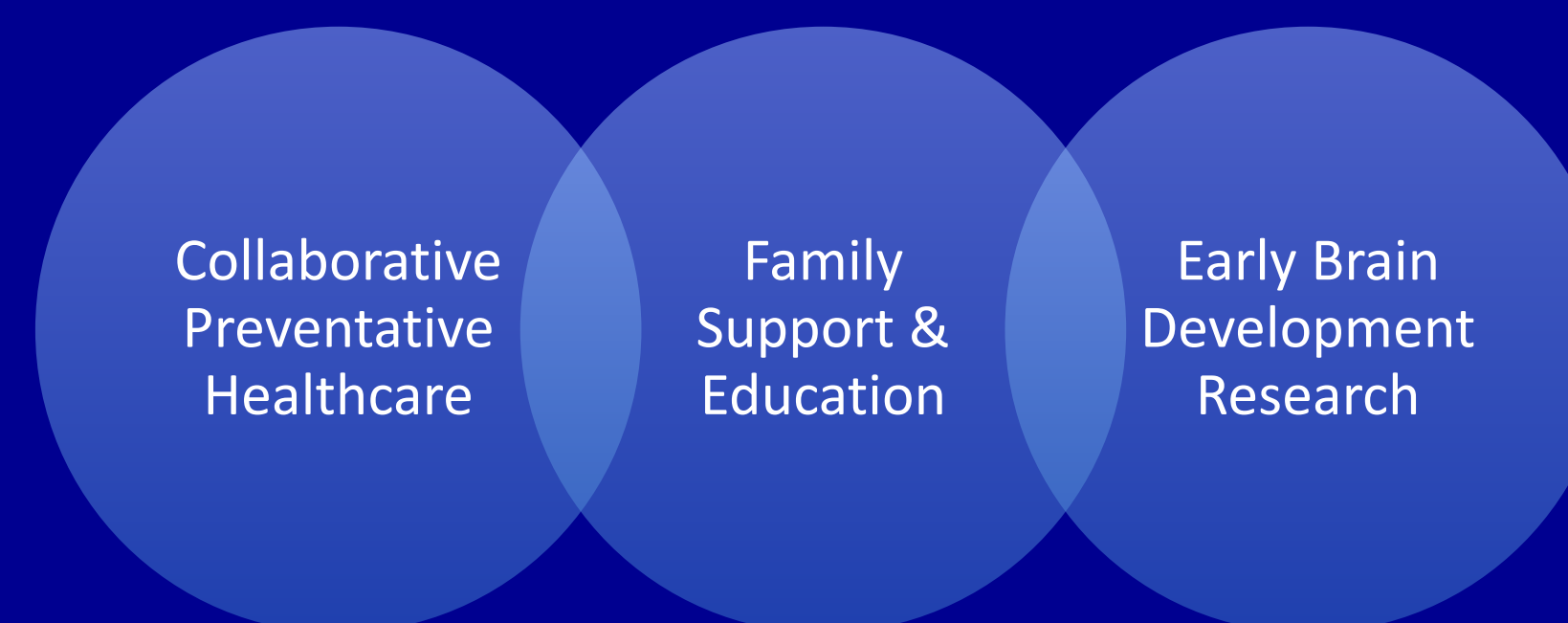
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Concept and Goals:

- A model for integrating primary care, psychiatric care, patient and family education, and neuroscience research
- Creates an improved healthcare home for participating patients, research and education occur onsite during well visits
- Promotes green healthcare, reducing costs and healthcare waste
- Pilots a new approach for research, uses RDoC, complements big data methods
- Ability to obtain longitudinal, comprehensive data during difficult life stages (such as infancy)
- Promotes interactions between patients, physicians, and researchers
- Goal to develop clinics across lifespan
- Expand to multi-site, customizable to resources and expertise of each site

Multi-Level Analysis	Longitudinal Data Collection (Coordinated with Well Child Visits)							
	Prenat	5 D	1 Mo	2 Mo	4 Mo	6 Mo	9 Mo	12 Mo
Genes	X					O		O
Molecules		X + O			X + O	X + O		X + O
Cells								
Circuits		mock	O	O	O	O	O	O
Physiology		X	X	X	X + O	X + O	X + O	X + O
Behavior				O	O	O	X	O
Self-Report	X + O	X + O	X + O	X + O	X + O	X + O	X + O	X + O
Paradigms								



Pilot Program (1st Year Initiative):

- Focuses on infant health, brain development, and family support
- Uses a group clinic format (1 clinic/month, 8-12 same-age kids, subgroups)
- Urgent care provided by patient's base clinic with EMR continuity (Yale Health or YNHH Pediatrics Primary Care Center)
- Base clinic (supplies, labor) reimbursed for routine care by insurance
- Staffed by volunteer residents, staff, and attendings from Peds, Developmental Peds, Psychiatry, Genetics, Radiology, Nursing, Child Life, & Clinical Informatics
- Clinic onsite at YNHH pediatric MRI suite, "ScanCastle", on Saturday off hours
- Diverse recruitment from Yale L&D
- Scholarship funds available per year of clinic involvement (all research optional)

Symbiotic Partnerships & Benefits		
For Patients	For Researchers	For Physicians
- Continuity	- Multi-Level	- Pt Continuity
- Peer Support	- Longitudinal	- Collaborative
- MD Support	- Customizable	- Pt Support
- No Copays	- Impr Retention	- Pt Interaction
- Free Testing	- No Duplicity	- Pt Satisfaction
- Paid Options	- Reduced Costs	- Early Detect
- No Extra Visit	- Eco Validity	- EMR Data

	Sample Data Obtained (6 Mo Visit)	
	Required (X)	Optional (O)
Genes (G)		Update Fam Hx, Sample w/ Labs
Molecules (Lab)	Lead Screen	Oxytocin, Cortisol, Cytokines ...
Circuits (MRI)		sMRI, DTI, rsfMRI
Physiology (PE/ET)	PE, Reflexes, VS	Eye Tracking
Behavior (Dev)		Mullens, AOSI
Self-Report (iPad)	Health Hx, ASQ	PSI, IBQ, CBCL & SRS (Parent) ...

	Sample Clinic Schedule (6 Mo Visit)			
	Group A	Group B	Group C	Group D
8:00	iPad/G	MRI	Dev/ET	PE/Lab
9:00	MRI	Dev/ET	PE/Lab	iPad/G
10:00	Dev/ET	PE/Lab	iPad/G	MRI
11:00	PE/Lab	iPad/G	MRI	Dev/ET
12:00	Group Lunch, Q&A with Doctors			