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# Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

Nickolas Agathis Rutgers New Jersey Medical School, ntagathis@gmail.com

Jean L. Raphael Baylor College of Medicine, raphael@bcm.edu

Christopher Greeley Baylor College of Medicine, Texas Children's Hospital, Christopher.Greeley@bcm.edu

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Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis <u>Improving the Health Care of Foster Children Throughout the US: Texas, a Case</u> Example

#### 1 Background: Health of Children in Foster Care

2 What is the state of foster care child health in the United States and Texas?

3 The 400,000 children in the United States who have been exposed to the foster 4 care system annually comprise a high-risk, vulnerable, and potentially medically complex 5 pediatric population.<sup>1,2</sup> According to the most recent demographic report by the US 6 Department of Health Human Services, the mean age of a child in foster care is 8 years 7 old. The gender distribution of children in foster care (CFCs) is 52% male and 48% 8 female. The majority of CFCs are white (44%) followed by black (23%) and Hispanic 9 (21%). Regarding placement setting, 45% are in nonrelative foster family homes, 32% 10 are in homes of relatives and next of kin, 7% are in various "institutions", and the 11 remainder are in pre-adoptive homes, group homes, supervised independent living 12 programs, or trial home visits or are currently runaways.<sup>3</sup> 13 CFCs suffer in all facets of health. CFCs encounter physical health issues more 14 often than the general population does.<sup>1,4,5</sup> But the majority of problems that CFCs 15 confront involve developmental, behavioral, and mental health. They often have 16 cognitive development delays and learning disabilities leading to academic challenges<sup>6</sup>, 17 which are in turn associated with significant psychosocial consequences later in life<sup>7</sup>. 18 Common psychiatric comorbidities including anxiety, depression, attention deficit 19 hyperactivity disorder (ADHD), and other behavioral problems also impact this group. 20 However, it is important to note that the degree to which these mental health disorders 21 affect these children has been debated, given heterogeneity between studies and diagnostic criteria and discordance between informants, ie, caregivers and children.<sup>8</sup> In 22 23 the adolescent period, higher risk of maladaptive behavior including substance abuse can

24	<u>Example</u> exacerbate these mental health problems. $^{9,10}$ Moreover, adolescents in foster care have		
25	their own unique health problems including higher incidences of early childbirth and		
26	sexually transmitted infections. <sup>11,12</sup> As these problems are not appropriately addressed,		
27	the aging-out process leads to worsening of these health outcomes and overall poor life		
28	experience for these newly transitioned adults. <sup>13</sup>		
29	In this case example, we focus on the health of CFCs in Texas for several reasons.		
30	Texas is second only to California for having the most children in the foster care		
31	system. <sup>14</sup> According to the Annie E. Casey Foundation, Texas continuously ranks low		
32	compared to the rest of the nation for overall child well-being and specifically $41^{st}$ in		
33	2018 for overall health. <sup>15</sup> . Texas also demonstrates great diversity in its composition of		
34	CFCs. Of the 50,000 children under the conservatorship care of the Department of		
35	Family and Protective Services (DFPS) in Texas, 52% are male and 42% are Hispanic,		
36	31% white, and 20% black. <sup>16</sup>		
37			
38	What is the current state of health care access for children in foster care?		
39	In addition to the relatively poor health of CFCs, several inherent barriers and		
40	challenges exist in ensuring appropriate health care access for this population. Per the		
41	American Academy of Pediatrics, <sup>17</sup> such barriers include:		
42	• Challenging, time-consuming, and crisis-oriented nature of the health care		
43	approach for these children.		
44	• Lack of care coordination, particularly lack of systems for communication and		
45	information sharing among stakeholders.		

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis <u>Improving the Health Care of Foster Children Throughout the US: Texas, a Case</u> Example

- Health care professionals' lack of familiarity and comfort with the foster care
  system, welfare agency, and other related issues including consent and
  confidentiality.
- Inadequate availability of health information and lack of continuity, given the
   transient nature of the welfare system.

51 Various financial and legislative mechanisms have been implemented to attempt 52 to overcome these barriers. Medicaid acts as the primary federal and state-level financial 53 mechanism by which these children can access health care. Furthermore, under Titles IV-54 B and IV-e of the Social Security Act, Congress appropriates additional funding annually for the care of these children via welfare services.<sup>18</sup> According to the President's Budget 55 56 for 2019, \$8.4 billion was allocated towards foster care and permanency in 2018 and an 57 increase to 8.7 billion dollars is expected in the 2019 federal budget for the Department of Health and Human Services.<sup>19</sup> State Medicaid and other federal mechanisms cover 58 59 most CFCs, but gaps remain.

60 One omission, particularly before the Affordable Care Act (ACA), is the care for 61 children previously in foster care who have now aged out of the system. Prior to the 62 ACA, the Chafee Foster Care Independent Act of 1999 represented the last major signed 63 federal legislation attempting to directly help adolescents who aged out of foster care. 64 Created in 1999, its primary achievement was to increase significantly the funding 65 support for states and give them more flexibility to offer independent living services for 66 children who have or will likely age out of foster care. Such potential services were broad 67 and varied and included educational assistance, residential services, and independent life 68 skills training. From a coverage standpoint the act gave all states the option to offer

Medicaid to all CFCs on their 18<sup>th</sup> birthday up until their 21<sup>st</sup> birthday.<sup>20</sup> The ACA 69 70 attempted to further extend this support by requiring states to provide full Medicaid 71 benefits to all previous CFCs until 26 years old or up to 65 years old if household income 72 is less that 133% of the federal poverty line. Additionally the ACA attempted to improve 73 overall health care access to adolescents aged out of foster care by broadening mental and 74 behavioral health services and emphasizing and incentivizing integration of care through 75 various services including the medical home model.<sup>13</sup> 76 In Texas, the DFPS cares for CFCs through a combination of local, state, and 77 federal funds. In the most recently available report on child welfare financing in Texas, 78 for the 2014 fiscal year, \$1.4 billion was spent on child welfare in total, with half coming 79 from the federal budget.<sup>21</sup> No specific data estimating health care expenditures for the 80 50,000 CFCs in Texas are available, though some rough estimates can be made based on 81 the data available. A 2016 Texas Health and Human Services (HHS) report estimated 82 that \$38 billion was spent on Medicaid in Texas in 2015 and that the average monthly expenditure for a nondisabled child was \$242.<sup>22</sup> However, given the increased health care 83 84 needs of the CFC population, this is likely a gross underestimate. Campbell et al 85 conducted an analysis of Medicaid expenditures for children who suffered from child maltreatment and estimated that in 2009 the annual healthcare expenditure for a child 86 87 placed in foster care after child maltreatment was \$2920.23 In 2010 Medicaid agencies 88 reported total health care expenditures of \$5.754 billion for all CFCs in the US.<sup>24</sup> 89 In Texas, STAR Health represents the primary Medicaid managed care program 90 reserved for CFC health care spending. It is a "statewide, comprehensive healthcare 91 system that was designed to better coordinate and improve access to health care [for

Example

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis <u>Improving the Health Care of Foster Children Throughout the US: Texas, a Case</u> Example

92	Example children in Texas foster care] The main goal of STAR Health is to quickly give
93	children in state care the coordinated medical and behavioral health care services they
94	need."25 Most recent health care utilization data for CFCs in Texas via STAR Health
95	demonstrates that in 2014 there were 62.1 emergency department visits per 1000
96	member-months and 495.8 outpatient visits per 1000 member-months. <sup>22</sup>
97	Over the past year significant legislative efforts had been made to improve the care of
98	these children with a particular focus on health care access. The catalyst that prompted
99	these reforms most likely arose from broad public scrutiny around alleged inadequacies
100	of the DFPS to protect and care for abused and neglected children. <sup>26</sup> The enacted Texas
101	Senate Bill 11 of 2017 (Table 1) represents the primary product of these efforts. Key
102	changes included a mandate that CFCs be evaluated by a health care professional within
103	3 business days of being removed from his/her previous home if one of the following
104	conditions is met: he/she is removed as the result of sexual abuse, physical abuse, or an
105	obvious physical injury to the child; or has a chronic medical condition, a medically
106	complex condition, or a diagnosed mental illness. It also requires notification by the
107	managed care organization to the health care professional regarding placement changes
108	within 24 hours following the placement change. <sup>27</sup>
109	Apart from SB11, the 2017 legislative session produced additional enacted bills that
110	could have more indirect effects on CFCs in Texas. SB5 made DFPS autonomous and

111 separated it from Texas HHS, though in regards to responsibilities in health care

112 decisions, DFPS will be required to work with HHS. SB4 attempted to promote kin

113 placement by incentivizing relatives caring for CFCs with a stipend of \$350 per month.<sup>26</sup>

## 115 Table 1. Highlights of Mandates in Texas SB11 2017 Aimed at Improving Health

## 116 and Health Care Access of CFCs in Texas<sup>27</sup>

<u>Highlight</u>	Summary of Specific Mandates		
Expansion of required	Section 6: Requires inclusion of important prenatal information in the		
prenatal care	child's history including maternal alcoholic intake during pregnancy and		
information	history of fetal alcohol syndrome.		
Inclusion of coercion	Section 7: Adds coercion to marry as a form of abuse and defines		
to marry as a form of	exploitation as an indication for placement into DFPS custody.		
maltreatment			
Assurance of proper	Section 14: Within 24 hours of a change in placement, DFPS or community-		
transition of clinical	based contractor must inform the managed care organization and in turn		
care after change of	the managed care organization must notify the primary care physician		
placement	(PCP) of the change in placement "before the end of the second business		
	day" from the time the managed care organization is made aware of the		
	change. <u>Section 25</u> further gives the managed care organization		
	responsibility for ensuring proper transition and continuity of care when		
	change in placement has occurred.		
Requirement of a	Section 15b: Medical examination by a health care provider must be done		
medical exam in	within 3 business days of removal, if the child was removed because of		
specific circumstances	abuse or physical injury or he/she has a "chronic medical condition, a		
following removal medically complex condition, or diagnosed mental illness."			
Community-Based	Section 18: Describes the "Community-Based Care" model defining the		
Care model	characteristics that make up an appropriate community-based contractor		
	and the necessary obligations of both the DFPS and a future contractor in		
	future contractual relationships.		
Grants for faith-based	Section 19: Creates a program permitting the governor to award grants to		
community programs	specific "faith-based community programs"		

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

Nickolas T Agathis
Improving the Health Care of Foster Children Throughout the US: Texas, a Case

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<u>Example</u>	Example			
Evaluation of <u>Section 20</u> : Future evaluations should be done of early intervention				
effectiveness of early	programs in place			
intervention programs				
<b>Requirement</b> for	Section 22: Contractors under the Community-Based Care model in			
-				
comprehensive	Section 18 must ensure that every CFC receiving therapeutic services by			
assessments every 90	the contractor obtains a "comprehensive assessment at least once every			
days	90 days."			
<b>Requirement</b> for	Sections 24 and 30: Both managed care organizations (Section 24) and			
reception of	"child-placing agency or general residential operation" (Section 30) caring			
appropriate health	for the CFC are responsible for ensuring he or she receives appropriate			
care screening services	health care screening services.			

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- 119

#### 120 Improving the Health of CFCs in Texas Through Improved, Efficient, and More

#### 121 Comprehensive Health Care Access

122 Access to comprehensive and cost-effective medical care through integration of care

123 Given the lack of coordination and continuity that often prevents adequate health

124 care for CFCs, a means to offer comprehensive and coordinated care is essential.

125 Integration of care via the medical home model, improved case management, and

126 facilitation of patient navigation ought to play a critical role. The medical home model

127 has become an important mechanism to achieve integration of care and offer optimal care

- 128 for CFCs. Per the American Academy of Pediatrics, the medical home model "ideally
- 129 offers high-quality, comprehensive, coordinated health care that is continuous over time,
- 130 compassionate, culturally competent, trauma informed, family centered, and child

131 focused."<sup>17</sup>

132 Although the literature on the utility of medical homes for CFCs is sparse, 133 evidence is accumulating to support its effectiveness. One program in Illinois has 134 demonstrated some promising outcomes. The statewide Healthworks model created in 135 2004 offered a coordinated delivery system of comprehensive health services for CFCs. 136 The Illinois state department of health created this model through building a network of 137 primary care physicians, lead agencies or local departments of health, and medical case 138 managers to ensure children receive the care they need. A retrospective cohort study 139 compared outcomes between children obtaining services from this model with Illinois 140 CFCs prior to the model, who had been receiving services through Medicaid. The 141 analysis demonstrated that the new Healthworks model was associated with higher 142 immunization rates, higher rates of well-child visits, and reduced rates of emergency room visits for children with chronic conditions.<sup>28</sup> These outcomes indicate that such an 143 144 integrated health care model may be associated with improved clinical care. Such a 145 model focusing on integration of care represents an important example for future states 146 looking to offer coordinated and comprehensive health care for CFCs. 147 In Texas, the STAR Health statewide managed care plan has attempted to create a 148 medical home model for CFCs. The health plan offers two primary objectives: (1) to 149 provide an "integrated medical home where each foster care child has access to primary 150 care providers, behavioral health clinicians, specialists, dentists, and vision services" and 151 (2) to offer "care coordination services to help members understand benefits, get help 152 with appointments, find transportation assistance and identify local community 153 resources." The plan offers specific mechanisms to help ensure integration of care. Such

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis Improving the Health Care of Foster Children Throughout the US: Texas, a Case

154	Example steps include the utilization of the Health Passport system, "a community health records
155	designed for foster care members and the STAR Health program", and a focus on
156	achieving the critical timeline benchmarks including a Texas Health Steps checkup
157	within 30 days of enrollment. <sup>29</sup> Senate Bill 11, as previously mentioned, further enhanced
158	this continuity of care by mandating that certain CFCs obtain exams within "3 business
159	days" of placement change and that PCPs are made aware of placement changes within 2
160	business days. <sup>27</sup>
161	There is limited data available that evaluate Star Health's success in achieving the
162	medical home model. A process evaluation assessing key benchmarks such as the

163 number of CFCs with a health passport and the proportion of children hitting the

164 important exam timeline benchmarks would be an adequate start. Nevertheless, in a

165 recent report, Texas HHS summarized several indicators it used to evaluate the quality

and satisfaction of care for CFCs through the STAR Health program from 2014 data

167 (Table 2). In the report, HHS asserted, "children and adolescents in STAR Health

168 generally had excellent access to care in 2014 compared to the national Medicaid

169 population and Texas Standards." However, HHS also noted that most indicators

170 measuring caregiver satisfaction of care remained below those for the national Medicaid

171 population  $^{22}$ .

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#### 173 Table 2a and 2b: Key messages of "Star Health – Significant Quality Findings"<sup>22</sup>

174 **Table 2a: Quality of Care** 

Measure	Comparison to national standards*

Journal of Applied Research on Children: Informing Policy for Children at Risk, Vol. 9 [2018], Iss. 1, Art. 9

### Nickolas T Agathis

Improving the Health Care of Foster Children Throughout the US: Texas, a Case

3.8 preventable admissions and 1.62 potentially	Not commented		
preventable readmissions per 1000 member visits –			
the majority due to mental health or substance			
abuse related issues			
"Rate of members receiving at least 6 well-child	"middle third of the HEDIS benchmark		
visits in the first 15 months of life"	and exceeded the HHSC Performance		
	Indicator Dashboard Standard"		
"well care visits for 3- to 6-year-olds"	"top 10% nationally", exceeded HHSC		
	standard		
"well care visits for adolescents"	"top 10% nationally", below HHSC		
	standard		
"Access to PCPs"	"top decile nationally", "met or exceeded		
	HHSC standard		
6 of 10 children or adolescents "appropriately tested	"between 10 <sup>th</sup> and 32 <sup>nd</sup> HEDIS standard"		
for streptococcal pharyngitis when presenting for			
pharyngitis"			
• Being prescribed "an appropriate medication"	"very likely relative to national Medicaid		
• Using "more asthma controller medications	population" but below HHSC standards		
than quick-relief medications"			
"Dispensed controller medications covering at least	"very likely relative to national Medicaid		
75% of days in the measurement year"	population"		
HEDIS is the Healthcare Effectiveness Data and Information Set, a too	l "used by more than 90% of Americans to measure		
erformance on important dimensions of care and service"; it is a "regis	tered trademark of the National Committee for Quality		
	Assurance (NCQA)." <sup>30</sup> HHSC standard indicates standards of Texas Health and Human Services.		

Nickolas T Agathis Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

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#### Table 2b: Caregiver satisfaction of quality and access to care

Measure	Comparison to national standard**
Getting needed care – 72%	"Below the national CAHPS child Medicaid rate",
	"similar to other Texas Medicaid programs"
Getting care quickly – 89%	"Below the national CAHPS child Medicaid rate"
How well doctors communicate – 91%	"Below the national CAHPS child Medicaid rate"
Rating a specialist "9" or "10"-61%	"Below the national CAHPS child Medicaid rate"
	(report explicitly reports rate of 70%)

\*\*CAHPS is the Consumer Assessment of Healthcare Providers and Systems" survey used by the Centers for Medicare and Medicaid
 Services to "reliably assess the experiences of a large sample of patients."<sup>31</sup>

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188 Impact of trauma and toxic stress on CFCs' health and the role of trauma-informed care 189 Understanding trauma and encouraging trauma-informed care is critical to 190 improve the health of CFCs. Exposure to trauma can accumulate in the lives of many 191 children, especially CFCs. By definition all CFCs at some point in the life course have 192 been exposed to some form of trauma, via adverse childhood experiences (ACEs) and 193 toxic stress throughout their lives. ACEs vary and include abuse and neglect (physical, 194 sexual, emotional), poverty, and parental factors including psychopathology, conflict, and 195 stress. In addition to such experiences prior to removal, the uncertainty, disorder, and 196 losses associated with removal add to this trauma that CFCs experience. Approximately 50% of children in Texas have been exposed to at least one ACE.<sup>32</sup> Exposures to ACEs 197 198 have been associated with structural changes in the brain and poor mental and physical 199 health outcomes.<sup>33,34</sup>

200 The accumulation of ACEs also leads to accumulation of toxic stress. Toxic stress 201 is a prolonged physiologic stress response that leads to an irregular and unregulated exposure to stress hormones like cortisol.<sup>33</sup> Via cumulative neuroendocrine, 202 203 neuroimmunologic, and neurogenetic alterations, this unregulated exposure to hormones 204 impacts development of the brain, leads to structural changes in the brain, and in turn influences function of numerous areas of the brain.<sup>34</sup> Moreover, behavioral 205 206 maladaptations further exacerbate these neurologic changes. Therefore, the combination 207 of biological changes and maladaptive behaviors ultimately effect significant and 208 negative consequences on the child's physical, cognitive, and psychosocial health. Such 209 impacts on health affect the child not only in the short term, but often through 210 adulthood.<sup>33,34</sup> 211 Given the clear impact that trauma has on the well-being of CFCs, strategies not 212 only to prevent and stop the traumatic exposures but also to mitigate the effects of trauma 213 through healing and rehabilitation and trauma-informed care are paramount to improving 214 their health <sup>33</sup>. Trauma-informed care is a far-reaching term that can be broadly defined 215 as a program or system which "realizes the widespread impact of trauma and 216 understands potential paths for recovery; recognizes the signs and symptoms of trauma 217 in clients, families, staff, and others involved with the system; and responds by fully 218 integrating knowledge about trauma into policies, procedures, and practices, and seeks 219 to actively resist re-traumatization."35 220 At the minimum, physicians and health care workers must become trained in 221 assessing and treating trauma and its related negative consequences. There are numerous

222 resources for health care workers to become educated in trauma-informed care. One

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis <u>Improving the Health Care of Foster Children Throughout the US: Texas, a Case</u> Example

- example is the American Academy of Pediatrics' *Helping Foster and Adoptive Families*
- 224 Cope with Trauma.<sup>36</sup>

225 It is not only the healthcare worker's obligation to offer trauma-informed care; in 226 order to ensure a safe home environment and secure relationships between caregiver and 227 child, a multidimensional approach involving case workers, caregivers, health 228 practitioners, and other important adults in the child's life is imperative. Caregivers 229 should learn how to care properly for trauma-exposed children so that they can identify 230 trauma-related triggers, foster stability in the household, create responsive and loving relationships, and prevent worsening of the child's toxic stress and its negative effects. 231 232 The National Child Traumatic Stress Network's trauma-informed parenting workshop 233 attempts to educate caregivers about trauma-informed care and make them more 234 comfortable in caring for trauma-exposed CFCs. It has been demonstrated that caregivers 235 who undergo the workshop have improved knowledge and comfort in caring for children with a history of traumatic experiences.<sup>37</sup> Focus has also been directed on child welfare 236 237 workers. In Washington state, a training program for case workers improved their 238 competency in using trauma-informed screening tools, identifying related mental health 239 needs, and connecting children with the appropriate evidence-based services.<sup>38</sup> 240 Numerous trauma-informed services have been created and implemented 241 throughout the nation, but they have not been demonstrated to be equally efficacious. In a 242 systematic review, Leenarts et al assessed the literature's evaluations of different trauma-243 informed psychotherapies.<sup>39</sup> The review discovered that cognitive behavioral therapy, art 244 therapy, child-parental psychotherapy, and multisystem strategies specifically targeting 245 aggressive and violent children offered the most benefit to children who have

246 experienced trauma.<sup>39</sup>

247	In regards to trauma-informed care for CFCs in Texas, the STAR Health plan has
248	implemented strategies to improve identification and mitigation of trauma-related
249	pathology in children. Every child newly placed in foster care requires a trauma screen
250	within 30 days of placement. <sup>40</sup> In Texas, CANS (Child and Adolescent Needs and
251	Strengths) has been the uniform statewide assessment tool following enactment of Texas
252	Senate Bill 125 in 2013. This bill required "children who are entering into DFPS
253	conservatorship to receive a 'developmentally appropriate comprehensive assessment'
254	that includes a screening for trauma and mental health needs."41 Originally the screen was
255	required within 45 days but now has been decreased to 30 days. <sup>40</sup> Furthermore, through
256	the behavioral health section of STAR Health, the plan offers several trauma-informed
257	treatment modalities: "Trauma-Focused Cognitive Behavioral Therapy (TF-CBT),
258	Trauma-Informed Care (TIC), Parent-Child Interaction Therapy (PCIT), Trust-Based
259	Relational Intervention (TBRI), and Child Parent Psychotherapy (CPP). <sup>29</sup> Lastly the
260	DFPS requires every new foster and adoptive parent to receive trauma-informed care
261	training prior to obtaining approval to care for foster care or adopted children and must
262	renew this training annually. <sup>42</sup>
263	

264

265 Screening for mental health and neurodevelopmental disorders

The exposure to trauma, ACEs, and toxic stress leads to an epidemic of mental
health disorders and neurodevelopmental disabilities (NDDs) that plague CFCs.
Estimates vary but approximately 50%-70% of CFCs suffer from such pathology <sup>8,33</sup>.

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis

# Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

269	Therefore, in order to improve the health of CFCs, identifying and treating these
270	disorders are imperative. The first step is to identify all children who are potentially
271	afflicted with mental health illness and NDDs. Such a strategy ought to be sensitive yet
272	cost-effective; not every CFC can or should have a complete psychiatric evaluation.
273	Therefore, it is prudent to implement adequate screening mechanisms that will identify
274	children who require further evaluation. Numerous screening tools have been created and
275	validated for pediatric mental health pathology and NDDs. One resource, the California
276	Evidence-Based Clearinghouse for child welfare, has reviewed and critiqued the validity
277	and reliability of many of the widely used screening tools (Table 3). <sup>43</sup> Furthermore, some
278	novel approaches have been made to conduct mental health screening successfully. One
279	study evaluated a web-based tool used by parents to screen for mental health disorders; it
280	reported that parents found the application easy to use and physicians felt that the tool
281	normalized topics surrounding mental health and allowed for more efficient and
282	comprehensive visits.44

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284 Table 3: Mental Health and Neurodevelopmental Screening Tools Evaluated by the

285 California Evidence-Based Clearinghouse

Screening Tool	Description/Purpose of Tool	Psychometric
		<u>Rating*</u>
Ages and Stages	"Assesses the developmental performance of	А
Questionnaire, 3 <sup>rd</sup>	children in the areas of communication, gross	
edition (ASQ-3 <sup>TM</sup> )	motor skills, fine motor skills, problem solving, and	
	personal-social skills"	

Nickolas T Agathis
Improving the Health Care of Foster Children Throughout the US: Texas, a Case

Example		
Ages and Stages	Assesses specifically social and emotional	А
Questionnaire, Social-	developmental perform a nce	
Emotional (ASQ:SE)		
Family Map Inventories	Assesses child's home and parental environment,	А
	"areas assessed have been identified as those that	
	most impact child development," "a valid screen	
	for Adverse Childhood Experiences (ACES) in	
	young children."	
Mental Health Screening	"screening tool intended to be used primarily by	Not able to be
Tool (MHST)	non-mental health professionals to rapidly screen	rated
	children and youth ages 5 through adult who are	
	being considered for out-of-home placement. The	
	purpose of the instrument is to identify which	
	children/youth should be referred for a mental	
	health assessment."	
Modified Checklist for	Two-stage tool that "screens for risk of autism	А
Autism in Toddlers (M-	spectrum disorder"	
CHAT)		
Modified Checklist for	Similar but revised version of M-CHAT	В
Autism in Toddlers,		
Revised, with Follow-Up		
(M-CHAT-R/F)		
Mood and Feelings	Screens for depression in children and adolescents,	А
Questionnaire (MFQ)	33 item questionnaire	

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

Nickolas T Agathis
Improving the Health Care of Foster Children Throughout the US: Texas, a Case

Example				
Mood and Feelings	Screens for depression in children and adolescents;	А		
Questionnaire-Short	13-item questionnaire			
Form (MFQ-SF)				
Mood Disorder	Screens for bipolar disorder	А		
Questionnaire (MDQ)				
North Carolina Family	Examines "family functioning in the domains of	А		
Assessment Scale	Environment, Parental Capabilities, Family			
(NCFAS)	Interactions, Family Safety, and Child Well-being"			
Patient Health	Nine-item questionnaire that screens for depression	A		
Questionnaire for	in adolescents			
Adolescents (PHQ-9)				
Pediatric Symptom	"screen for childhood emotional and behavioral	А		
Checklist-17 (PSC-17)	problems including those of attention,			
	externalizing, and internalizing"			
Screen for Childhood	"screen for childhood anxiety disorders including	A		
Anxiety Related	general anxiety disorder, separation anxiety			
Emotional Disorders	disorder, panic disorder, and social phobia"			
(SCARED)				
Strengths and	General "mental health screening tool"	A		
Difficulties				
Questionnaire (SDQ)				
*Rating based on availabil	ity of published, peer-reviewed studies that "	have		
established the measure's	psychometrics (eg, reliability and validity, ser	nsitivity and		

specificity, etc.). "A" means 2 or more studies have been published; "B" means one study has been published; "Not able to be rated" means no studies are available.

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287	Nnumerous publications have evaluated the effectiveness of individual screening
288	tools or methods, but studies evaluating the public health impact or utility of mental
289	health screening in CFCs are lacking. One study did evaluate the consequences of the
290	statewide Massachusetts Medicaid pediatric behavioral health-screening mandate. It
291	discovered that the mandate was associated with increased rates of screening and mental
292	health-related outpatient visits. <sup>45</sup> This study substantiated the effectiveness of mental
293	health screening as it demonstrated that perhaps more screening led to more intense
294	evaluations of children who screened positive for possible mental health disorders.
295	Furthermore, if such a study can demonstrate success in a large and heterogeneous
296	population, these results could be confidently extrapolated to CFCs, who have higher
297	rates of mental health disorders than the general public.
298	Per the Texas Health Steps recommendations, every child in Texas ages 12-18
299	should undergo a mental health screen annually with one of their accredited tools
300	including PSC-17, PSC-35, Y-PSC, and PHQ-9.29 As of September 2016, STAR Health
301	further requires that every child in foster care obtain a full mental health assessment via
302	the CANS tool within 30 days of placement, <sup>29</sup> as previously mentioned. Although the
303	CANS tool was created through an expert workgroup consisting of many stakeholders, <sup>46</sup>
304	any published evidence of its validity seems to be lacking.
205	

Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

306 Access to mental health care

307 Identifying children who have significant mental health care needs is an important 308 step but is obsolete if the children do not have access to adequate services and 309 interventions to help remediate such problems and allow the children to prosper. In a 310 review of the literature on efficacious mental health interventions in CFCs, specific 311 themes emerged. For example, appropriate yet judicious use of psychotropic medication 312 in the foster care population has been recently emphasized through the literature. High 313 incidences of concomitant use of multiple antipsychotics specifically<sup>47</sup> and psychotropic 314 medicines in general<sup>48</sup>, without evidence of effectiveness or safety, have been 315 demonstrated. 316 Another theme arising from the foster care health literature is a transition from a 317 focus on residential-type services to a focus on home-based and community-based 318 services. Specifically the Centers for Medicare and Medicaid Services (CMS) has 319 emphasized utilizing home-based and community-based services as they believe such interventions are more clinically and cost-effective than residential-type services.<sup>49</sup> 320 321 Assessing 2 important federal initiatives to remediate mental health needs of children--322 the Children Mental Health Initiative (CMHI) and the Psychiatric Residential Training 323 Demonstration Program (PRTDP)--CMS demonstrated that both initiatives are associated 324 with improved outcomes for children with mental illness. Based on such analyses, CMS 325 continues to offer a "core package" of traditional services including individual and family 326 therapy and medication management, and a supplementary package including "intensive 327 care coordination (often called wraparound service planning/facilitation), family and

Example

- 328 youth peer support services, intensive in-home services, respite care, mobile crisis
- 329 response and stabilization, and flex funds."<sup>49</sup>
- 330 In assessing different outpatient mental health interventions for CFCs aged 0-12
- 331 years, one systematic review highlighted and explored 10 different interventions that
- have been studied and demonstrated efficacy (Table 4).<sup>50</sup> Moreover, it emphasized
- 333 several important gaps in the literature that need to be filled to determine the optimal
- mental health interventions for the foster care population. The gaps include effectiveness
- data, particularly in a randomized controlled trial setting; studies comparing different
- interventions; subgroup analyses given the heterogeneous nature of the foster care
- 337 population and the need to determine for whom and in what scenario an intervention
- should be used; and lack of focus on outcomes related to adequate engagement of family
- and children, particularly enrollment and retention rates.<sup>50</sup>
- 340
- 341 <u>Table 4</u>: Mental Health Interventions Studied by Hambrick et al<sup>50</sup>

Attachment and BiobehavioralCatchup (ABC)	Kids in Transition to School (KITS)
Child Parent Psychotherapy (CPP)	Parent-Child Interaction Therapy (PCIT)
Fostering Healthy Futures (FHF)	Short Enhanced Cognitive-Behavioral Parent Training (CEBPT)
Incredible Years (IY)	Trauma-Focused Cognitive Behavioral Therapy (TF-CBT)
Keeping Foster Parents Trained and Supported (KEEP)	Treatment Foster Care Oregon for Preschoolers (TFCO-P; formerly Multidimensional Treatment Foster Care for Preschoolers)

342

While there are several possibly efficacious interventions for CFCs being utilized, there is a lack of literature on such interventions specifically targeting adolescents in foster care. Cognitive behavioral therapy is a ubiquitously effective intervention that has been shown to improve the symptoms in depressed and anxious adolescents.<sup>51</sup> Another Agathis et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example Nickolas T Agathis

Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example

347	more intensive program, Multidimensional Treatment Foster Care for Adolescents
348	(MTFC-A), has been demonstrated to have wide-ranging impacts on mentally ill
349	adolescents 52. It involves placing adolescents into short-term foster homes positively
350	supported by well-prepared adults and accompanied by several interventions throughout
351	the home and school setting. The wide range of positive outcomes that have been
352	associated with this program include reduced rates of depression, externalizing and
353	internalizing behaviors, criminal arrests, and teen pregnancy <sup>52</sup> .
354	In regards to mental health care access for CFCs specifically in Texas, Star Health
355	offers several behavioral health services, for children suffering from psychiatric and
356	substance abuse related disorder, and trainings for providers to practice such services.
357	Such services include "Trauma Focused-Cognitive Behavioral Therapy (TF-CBT),
358	Trauma Informed Care (TIC), Parent-Child Interaction Therapy (PCIT), Trust Based
359	Relational Intervention (TBRI) and Child Parent Psychotherapy (CPP)."] The plan also
360	offers intensive case management services and emergency behavioral health services. In
361	order to mitigate the excessive overutilization of psychotropic medications, Star Health
362	recommends that clinicians use the prescribing parameters outlined in the Texas DFPS
363	guide, Psychotropic Medication Utilization Parameters for Children and Youth in Foster
364	Care. The program moreover conducts periodic Psychotropic Medication Utilization
365	reviews or PMURs particularly for those patients that do not seem to follow the
366	parameters outlined by the guide <sup>53</sup> .
367	
368	

#### 369 **DISCUSSION**

370 Given the barriers and gaps preventing adequate health of and health care access 371 for CFCs, we have identified certain domains and themes that can be emphasized to 372 improve access and overall health. By focusing on these domains, including optimizing 373 integration of care, directing attention to the impact of trauma and adversity on child 374 health, and improving both mental health screening and access to targeted treatments for 375 mental health pathology, we have identified 2 general ways for Texas and rest of the 376 United States to improve the health and health care access of CFCs. 377 First, many of the mechanisms described that have been implemented to improve the health of, and health care access for, CFCs seem to lack evidence of quality 378 379 assurance. Specifically, there is limited data available to quantify the success of STAR 380 Health's initiatives to improve their health care goals for CFCs. For example, in regards 381 to achieving comprehensive medical care and integration of care for CFCs, data process 382 evaluations would ensure that the mechanisms being implemented are actually being 383 done. Studying such indicators like the proportion of CFCs with a health passport and 384 proportion of children hitting the important exam timeline benchmarks, as previously 385 mentioned, would offer assurance. Like Texas, other states should also ensure their health 386 care mechanisms focused on CFCs are being thoroughly evaluated. 387 Second, there are additional tools that could be implemented to further improve 388 the health and health care access for CFCs in Texas and throughout the US. For example,

in regards to ensuring access to comprehensive health care and integration of care, STAR
Health could augment or replace the health passport with an online mechanism to ensure
appropriate sharing of health-related information. Specifically, we would recommend the
creation of a single, portable, readily accessible yet confidential and HIPAA-protected

	Agath	is et al.: Improving the Health Care of Foster Children Throughout the US: Texas, a Case Example	
	Nickolas T Agathis		
	Improving the Health Care of Foster Children Throughout the US: Texas, a Case		
	Examp		
393		e containing relevant demographic information and the medical and psychosocial	
575	websit	e containing relevant demographic information and the medical and psychosocial	
394	history	v of each CFC in Texas. Additionally, to improve the ubiquity of mental health and	
395	trauma	a screening, easy-to-use and more efficient online modalities could be	
206	:	nonted. Each state should evaluate similar additional strategies to enhance the bealth	
396	implen	nented. Each state should explore similar additional strategies to enhance the health	
397	of and	health care access for CFCs throughout the nation.	
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