Adverse Childhood Experiences and their Relationship to Adult Health and Well-being

A 20-year collaborative effort between Kaiser Permanente,

17,337 adult members, and the Centers for Disease Control

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Summary of the ACE Study

- The ACE Study is the largest study ever done to determine the long-term adult effects of ten common categories of adverse life experiences in childhood. 17,337 middle-class adults were involved in this retrospective and 20-year *prospective* analysis.
- The very existence of these experiences was found to be quite common, though <u>unrecognized</u> because they are lost in time and further protected by shame, by secrecy, and by social taboos against routinely exploring certain areas of human experience. Our typical medical history completely <u>avoids</u> them.

Their effects a half century later in adult life are powerfully and proportionately related to adult well-being, health risks, mental illness, job performance, social malfunction, suicide, a range of biomedical diseases including cancer, and premature death. If you are unfamiliar with the ACE Study, simply look up <Adverse Childhood Experiences Study> on the Internet and on YouTube. You will find a deluge of meaningful information.

Today's Goals

- To help you decide whether to integrate this internationally-documented information into your clinical practice. If so, *Why*? and *How*?
- I will show you how this has worked out for 1.3 million middle-class adult members undergoing comprehensive medical evaluation over 30 years at Kaiser Permanente right here in San Diego.
- While highly *appreciated* by the patients, the adverse childhood information was commonly *resisted* by my colleagues who told me, "If I wanted to be a damned Shrink, I'd have been one. I'm a ----." or "That was 50 years ago. What the Hell am I supposed to *do* with that information?"
- Unexpectedly, the economic benefits, as well as the clinical benefits of our approach, were found to be huge, attracting international attention as well as supportive legislation from 23 State Legislatures in the US. You can easily check this by entering on the Internet, <Adverse Childhood Experiences Study State Legislatures> and picking from the deluge of results.

Why do this?

- 1.) Your *patients* will benefit. After integrating the ACE Questions into our 10- page Medical History Questionnaire that everyone filled out at home prior to coming in for comprehensive medical evaluation, I was routinely stopped in the hallway several times a day by patients who thanked me for asking 'Those questions' in their Medical History Questionnaire.
- 2.) <u>You</u> will benefit. Patients with intractable problems will now have <u>their underlying</u> <u>causality</u> understood as the basis for treatment, rather than merely being treated for their manifest symptomatology. I personally found it a to be great relief by no longer being stressed from dealing with intractable patient problems.
- 3.) Whoever pays the *bill* for medical care will benefit. In a 135,000 adult patient sample, a University of California mathematician found that integrating the ACE Questions into our 10-page biomedical history questionnaire led to a 35% reduction in outpatient visits and an 11% reduction in ER visits in *their* subsequent year compared to *their* prior year. For any large organization like a State, an insurance company, or a large employer, that finding has multi-billion-dollar implications. If you want evidence for this , just do an internet search: <Adverse Childhood Experiences Study-cost of medical care>.

How does one do this?

This is a key question because most of us are not eager to ask patients about unspeakable subjects like incest, parental abandonment, or household suicide. We found this inhibition was solved by obtaining this information initially by an *inert* mechanism: by integrating these uncomfortable questions into our very comprehensive medical history questionnaire filled out at home before coming in. This was highly acceptable to patients and comfortable for us as clinicians. Having this information in hand, our tell me how that has affected you in your life?" And we listened, Period. No humbug about "...how terrible that must have been, etc." We listened, and implicitly *accepted* that person. When patients stopped me in the hall to thank me for asking 'those questions', they often went on to tell me how grateful they were to their Examiner who, hearing the dark secrets of their life, "Was so nice to me and even wants to see me again." We found that Asking, Listening and implicitly Accepting is a powerful form of Doing!

What does doing this look like?

This is just a part of the cardiovascular section of our Female Questionnaire

			CARDIO-VASCULAR						
Have you had or do you have:	Y	N	SI O O the boild of Y N O Constant vir benefities for entering	Y	N				
1.) high blood pressure?	0	0	5.) a coronary arteriogram? O O 10.) congestive heart failure?	0	0				
	0	0 0	6.) angina pectoris (heart pains)? O 11.) abnormal blood clot formation?	0	0				
medication?	0	0	a.) If yes, do you take O 12.) varicose veins?	0	0				
a.) If yes, do you take medication?	0	0	nitroglycerin? 13.) intermittent claudication?	0	0				
	0	0	7.) a silent heart attack? O O 14.) narrowing of the arteries	-					
3.) a heart valve problem?	0	0	8.) a heart attack for which you were O in your neck?	0	0				
4.) an abnormal treadmill test?	0	0	hospitalized more than 3 days? 15.) a heart or circulatory	0	0				
	0	0	9.) a clot buster treatment for a problem not listed here?	0	0				
		T) make	heart attack?						
Do you get: Therefore has a software CA and the contract of th									
16.) pressure or tightness in your chest, with exertion or walking uphill? O Y O N									
a.) If yes , does the pain: O allow for continuation of activity? O force you to stop what you are doing? O force you to slow down? O occur while you walk on flat ground?									
b.) If yes, does the pain spread? O Y O N									
c.) If yes , does it spread to your: O neck or jaw? O inner left arm? O outer left arm? O another part of the body?									
17.) pain in the legs that forces y	ou to	stop walk	ing? O Y O N						
a.) If yes , do these leg pains	or cra		come on at the same distance each time, on flat ground? O come on faster on hills? Come on faster when walking rapidly? O go away within a minute or s	so of s	stopping?				
18.) episodes of rapid or irregula	ar hear	tbeat?	YON						

How we integrated the ACE Questions

in various parts of this woman's Questionnaire

I have had:	Y	N	39.) nephritis or glomerulonephritis	0	0	problems that are not mentioned.		
8.) a breast biopsy or aspiration	Ô	O	(Bright's Disease).			63.) abnormal blood clots during	0	0
that was NOT cancer.		0	40.) ectopic pregnancy.	0	0	pregnancy.		
9.) a lumpectomy for cancer.	0	0	41.) a kidney stone.	0	0	64.) other abnormal blood clots in	0	0
10.) a mastectomy for cancer.	0	0	42.) pyelonephritis.	O	0	the past.		
11.) fibrocystic breast diagnosis.	0	0	43.) I had a PAP smear:	-		65.) to be taken off the pill because	0	0
12.) a breast problem not on the list.	0	0	O never.			of clotting problems.		
2 To Far The Teach of the College of			O more than a year ago.			I have:	v	N
I am:	Y	N	O in the past year.			66.) been physically abused as a child.	Ô	0
13.) currently pregnant.	0	0	O that was once abnormal.	*7	NI		0	
14.) still having menstrual periods.	0	0	I am:	Y	NO	67.) been verbally abused as a child.	0	0
15.) definitely in menopause.	0	0	44.) a virgin.			68.) been sexually molested as a	0	0
a.) If yes , because:			45.) not sexually active within the	0	0	child or adolescent.		_
of a hysterectomy.			past year.	15		69.) been raped.	0	0
of age.			46.) no longer sexually active.	0	0	70.) been threatened or abused as	0	0
of other reasons.	Y	N	47.) sexually active with a male	0	0	an adult by a sexual partner.		
16.) not certain about my present state.	0	0	partner.			71.) Has your partner ever threatened,	0	0
I have:		7	48.) sexually active with a female	0	0	pushed, or shoved you?		
17.) vaginal itching.	0	0	partner.			72.) Have you ever threatened, pushed,	0	0
18.) a vaginal discharge.	0	0	49.) sexually active with more than	0	0	or shoved your partner?		
19.) vaginal dryness.	0	0	1 partner.			73.) Have you ever had a partner	0	0
20.) pain with intercourse.	0	0	50.) satisfied with my sex life.	0	0	threaten or abuse your children?		
21.) chronic pelvic pain.	0	0	51.) in need of birth control advice.	0	0	Have you ever?		
I currently have:			52.) possibly at risk for AIDS.	0	0	74.) lived in a war zone?	0	0
22.) no periods.	0	0	53.) diagnosed with HIV / AIDS.	0	0	75.) been rejected for the armed	0	_
23.) regular periods.	0	0	I have had:			service?	0	0
24.) irregular periods.	0	0	54.) urethritis.	0	0	76.) been rejected for life insurance?	0	0
25.) very irregular periods.	0	0	55.) genital herpes.	0	0	O Satzmaniantia		
26.) heavy periods.	0	0	56.) gonorrhea.	0	0			
27.) very heavy periods.	0	0	57.) syphilis.	0	0			
28.) a lot of pain with my periods.	0	0	58.) a sexually transmitted disease	0	0			
	7.00	2.50	not on this list.				Tillian	

This is what we end up having

A digital scan creates this <u>partial</u> <u>output</u> from our 38-year-old patient's Yes answers. It is further amended in the Exam Room.

WOMEN'S HEALTH

- Patient does a breast exam: at least once a month
- Patient's last mammogram was: never.
- Patient is still having menstrual periods.
- Patient currently has irregular periods.
- Patient currently has a lot of pain with her periods.
- She has not been sexually active within the past year.
- She is no longer sexually active.
- Type of birth control used: tubal ligation
- Number of pregnancies: four or more
- Number of live births: three
- Patient has been physically abused as a child.
- Patient has been verbally abused as a child.
- Patient has been sexually molested as a child or adolescent.
- Patient has been threatened or abused as an adult by a sexual partner
- Her partner has threatened, pushed, or shoved her.
- Her partner has threatened or abused her children.

And now?

Routinely obtaining this level of comprehensive medical history and creating a legible initial record without face-to-face questioning is a huge advance at essentially no cost. Moreover, we found that collecting this information at home by a lengthy questionnaire worked extremely well. We then would further annotate that history directly with the patient. We thus moved from a biomedical to a biopsychosocial mode of practice with which we and 440,000 middle-class adults over an 8-year period were very comfortable. It enabled us to understand the causal basis of many intractable clinical problems, and to focus our treatment plans on the *cause* rather than just the manifest symptoms. We discovered a Public Health Paradox wherein we found that many of our most intractable public health problems were indeed *problems* from a societal standpoint, but from the patient's standpoint were often unconsciously attempted *solutions* to unspoken experiences during their developmental years. Let us now see some patients.

What is the Core Diagnosis Here?



Age 8



In 51 weeks:

 $408 \Rightarrow 132 \text{ lbs}.$



Age 29

Age 28

Which photo represents the patient's problem?

This man explains that his 'Problems' are actually Treatments for Adverse Childhood Experiences.



Another teacher-Patient



How *Common* are these Adverse Childhood Experiences?

Abres by Cotonomy	Prevalence (%)				
Abuse, by Category Psychological (by parents) Physical (by parents) Sexual (anyone)	11% 28% 22%				
Neglect, by Category					
Emotional	15%				
Physical	10%				
Household Dysfunction, by Category					
Alcoholism or drug use in home	27%				
Loss of biological parent <18	23%				
Depression or mental illness in home	17%				
Mother treated violently	13%				
Imprisoned household member	6%				

What Can We Do Today?

- Create and integrate in a comprehensive biomedical history questionnaire, for all patients, questions about adverse childhood experiences.
- Understand their relevance by Asking, "How has this affected you later in life?" Then, simply Listen, and be Accepting of that person and their history.
- <u>Asking</u>, <u>Listening</u>, and implicitly <u>Accepting</u> is a powerful form of <u>Doing</u>. It is therapeutic.

What Will You Do With This?

You might want to experiment with devising your own medical history questionnaire to get a first-hand feel of whether it enables you to access important information to improve your practice. You can certainly use the Kaiser Questionnaire for ideas on developing your own, but you can't copy it because it is copyrighted. However, you are free to take ideas from it; and if you improve it, I'd be grateful if you sent *me* a copy of your version.

You might also give an anonymous form to a few dozen patients, asking whether they found your new questionnaire helpful in understanding their health and well being.

Further Information

Michael Balint's book, "The Doctor, His Patient, and the Illness". Balint is a psychoanalyst who spent many highly productive years as part of a major primary care clinic in England. His superb book should be borrowed from the library and read.

Balint's book will help understand the great potential therapeutic power *you* have in *your* physician-patient relationship. Then you can add your own best ideas, dealing with a newly understood relationship.

Internet and YouTube searches for 'Adverse Childhood Experiences Study'.

Occasional use of Psychotherapy and Hypnotherapy. Videotape pt interviews for staff training. Patients have been surprisingly agreeable to this if assured it is for medical teaching.

Request a copy of the Kaiser comprehensive patient medical history questionnaire and an anonymized actual patient output that we had in hand before even meeting our patient.