

The Patient Journey: Evidence for Clinical Decision Making

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- **Personal Profiling: Omics, Imaging, and Phenotyping (N = 1)**

- **Sources: Chen et al. (2012), Cell, 148: 1293 - 1307**
- **Veselkov et al. (2014), PNAS, 111(3): 1216 - 1221**
- **2**

- ***Personal Profiling -
Socioeconomic and Psychological
History -- (N = 1)***

- ***Source: Singer, Ryff, Carr, Magee (1998),
Sociological Methodology, 1998: 1 - 54***

TABLE 2
 CHRONOLOGICAL CHART—Characteristics of Resilient Woman, by Age and Organizing Features:
 Wisconsin Longitudinal Study 1957–1994

DOMAIN	<18	18–29	30–39	40–49	50+
[1] CUMULATION OF ADVERSITY	Lived w/problem drinker		Father died Brother died	Mother died Worst spell of depression Divorced [5] with kids	
[2] CUMULATION OF ADVANTAGE	Catholic Attended church 1/week	On-the-job train- ing program [4] Married financial manager [5] Briefly promoted to clerical supervisor [4] First birth [5] Second birth [5]	Third birth [5]		

<18

18 - 29

30 - 39

40 - 49

[3] REACTIONS TO ADVERSITY AND ADVANTAGE AND ASPIRATIONS

No college plans
Parents didn't care if she attended college
Planned to get office job
Marriage influenced future plans

Somewhat dissatisfied with job
Very dissatisfied with chance to get ahead

Remarried to laborer [2], [5]

Very satisfied with job

[4] SOCIAL HIERARCHIES

Father, 6 yrs. education [1]
Mother, 8 yrs. education [1]
Father—repairman
Mother—Didn't work
IQ = 112 [2]
Top 25% HS class rank [2]

Began job as clerical worker at insurance company

Took job as administrative secretary, insurance co. [2]

Church involvement

ALWAYS worked under time pressures [1].
SOMETIMES held responsible for things out of her control [1].

Church and PTA involvement
Promoted to supervisor in insurance firm [2]

[5] SOCIAL RELATIONSHIPS

One of 9 children

10 visits with friends/month

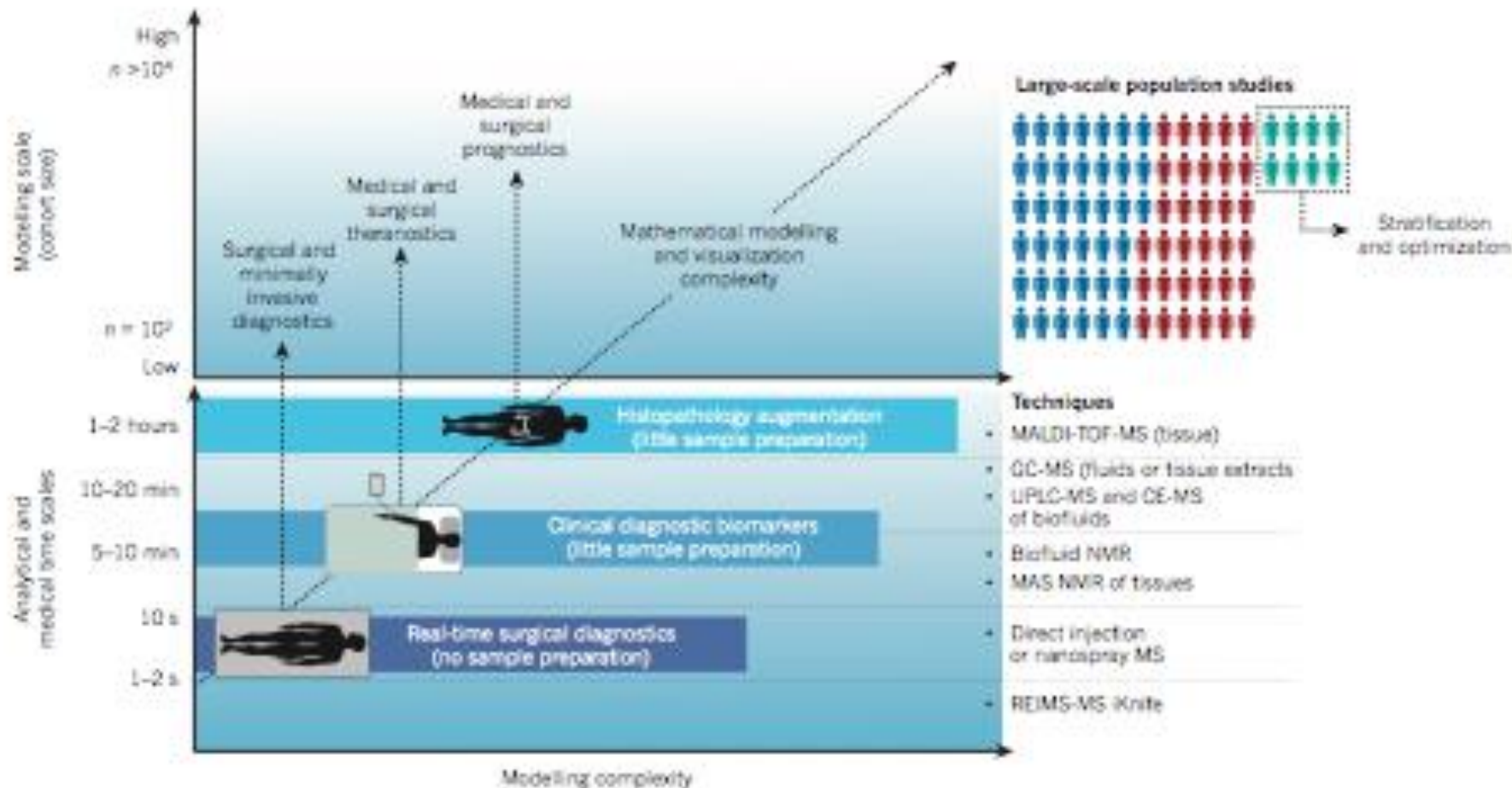
Very close with husband

Note: Numbers in brackets [] refer to other organizing principles that simultaneously utilize the same item.

- ***Integrating Evidence on the Patient Journey***

- ***Source: Nicholson et al. (2012), Nature, 491:
384 - 392***

Evidence for Decisions on the Patient Journey: ($N = 1$) vs ($N \gg 1$)



Metabolic Profiles - potential drug toxicity

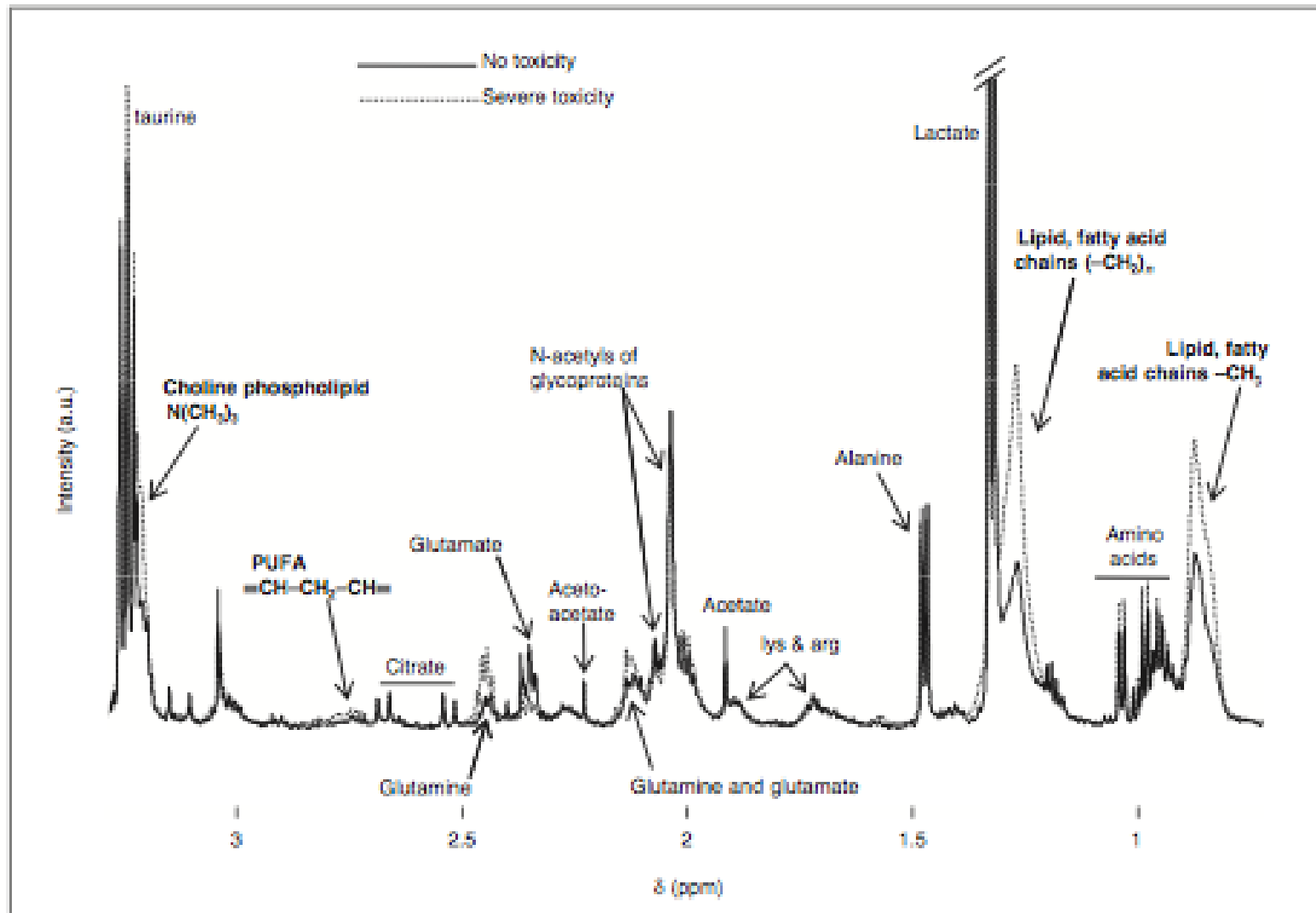


TABLE 4
Core Variables Defining Resilient Histories of WLS Respondents (n = 218)

Age < 18	Age 18–36	Age 36–54	Age 54+
<i>a</i> ₁ High school grades	<i>a</i> ₆ At least 4 of 5 social relationship conditions:		
<i>a</i> ₂ I.Q.	(i) Regular visits with friends in 1975 and 1992		
<i>a</i> ₃ Parental education	(ii) At least one close confidant		
<i>a</i> ₄ Alcohol problems at home	(iii) Participation in civic organizations, 1975 and 1992		
<i>a</i> ₁₂ Intact Family	(iv) Reports being "very close" with spouse		
	(v) Regular participant in religious organization/church		
	<i>a</i> ₇ Started first job by age 26, and has no more than one involuntary job termination.		
	<i>a</i> ₈ Upward career mobility, 1975 to 1992 measured by change in occupational status.		
	<i>a</i> ₉ Supervisory status in 1975 and 1992 jobs, or increase in supervisory duties, 1975–1992.		
	<i>a</i> ₁₀ Stressful work conditions	<i>a</i> ₅ Compares self favorably to parent, sibling, in terms of work, education, or finances	
	<i>a</i> ₁₃ Live(d) with problem drinker		
	<i>a</i> ₁₄ Divorced with child(ren)	<i>a</i> ₁₁ Chronic health problems	
	<i>a</i> ₁₅ Providing care to ill relative or friend		
		<i>a</i> ₁₆ Physical health worse than 10 years ago	
	<i>a</i> ₁₇ Involuntary spell of unemployment lasting six months or longer		