Roundtable #2-9: Assessing career readiness in culturally and ethnically diverse populations: What can we learn from past research to improve future service delivery?

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Career Thoughts Inventory

Major Findings:

Overall: Results consistently show that the CTI is reliable and valid across various cultural groups. Additionally, the instrument norming was stratified by ethnic background to account for cultural differences, adding to its generalizability.

- In ethnically and culturally diverse U.S. college students no ethnicity effects found regarding change in dysfunctional career thoughts after a career intervention
- Decrease in dysfunctional career thoughts as students advanced through Finnish educational system
- In racially and ethnically diverse U.S. college freshman, dysfunctional career thoughts decreased after completing a career development course, regardless of gender or race/ethnicity
- Dysfunctional career thoughts negatively related to achievement motivation in **Pakistani** sample
- Attachment anxiety and avoidance related to negative career thinking in **Belgian** and **Dutch immigrants** residing in California
- Significant relationships between the three stages of racial identity development and negative career thinking among **African American** high school students

Strengths: strong evidence of validity and reliability; well-normed, accounting for cultural differences; CTI workbook intervention; developed from the cognitive information processing theory of career development; short administration time; straightforward administration, scoring and interpretation; cost efficient

Weaknesses: all items are negatively worded, difficult to translate

Career Beliefs Inventory

Major Findings:

Overall: There is inconsistent evidence for the applicability of the Career Beliefs Inventory with samples from diverse cultural backgrounds. However, norms included a sample of ethnically-diverse participants adding to the generalizability of results.

- Cultural differences exist in career aspirations among **Caucasians, African Americans**, and **Hispanics**. Caucasian students tended to have increased negative congruence with aspirations
- Vocational interests and beliefs appear congruent in Hispanic professionals
- Factor structure of the CBI with **Italian** students appears to have little overlap with structure of the instrument used with American samples
- Career resilience led to fewer irrational career beliefs among **Taiwanese** students
- Acculturation and core beliefs among international students were weakly related
- Career beliefs clarify social experiences' role in career maturity for ethnically-diverse students

Strengths: strong evidence of validity, easy administration, very well normed in that it accounts for cultural differences

Weaknesses: Not based in one specific theoretical background and instead incorporates elements of various theories, no specific intervention accompanies the assessment, long administration time, very low reliability (.16) for some subscales, fairly expensive

Career Development Inventory

Major Findings:

Overall: Inconsistent findings in the literature regarding applicability with diverse cultural groups; although, overall validity appears to remain stable. Some subscales appear more generalizable than others.

- Majority of scales found to be non-equivalent between **Thai** and **Australian** samples
- Career Exploration scale found to be unreliable in **Thai** high school sample
- College form useful for studying career maturity in **international students**
- Valid measure of career maturity with Iranian high school students
- Transcultural validity of the CDI vocational maturity concept appears to be well established

Strengths: strong evidence of validity and reliability of affective scales, clear directions for administration, developed from Super's Structural model, free to Vocapher members

Weaknesses: no specific intervention accompanies the assessment; poor reliability of cognitive scales; poor standardization, especially for school form; long administration time; expensive for non-vocapher members

My Vocational Situation

Major Findings:

Overall: Vocational identity and its relative levels during certain stages of development seem to be similar across many ethnic and culturally diverse groups; however, the factors which effect its development seem to differ. Evidence continues to build for the MVS's validity among ethnically and culturally diverse groups.

- When comparing **Caucasian, African American & Hispanic** college women, Caucasian women reported higher vocational identity (VI) than Hispanic women; VI was negatively related to ethnic identity and positively related to family cohesion, participation in social/recreational activities & high-quality mentorships.
- When comparing **Caucasian** and **African American** college students, no significant difference in VI; positive relationship between VI and positive affect; with a stronger relationship between affect and VI for African American students vs. Caucasian students; a one-factor model provided adequate fit for both groups; VI factor structures not equivalent across groups
- When comparing American and Korean college students, both groups showed optimism/pessimism, career decision-making autonomy & family supports as antecedents to forming VI; however, mediator/moderators between antecedents and VI vary between cultures. Korean students were uniquely affected by extrinsic motivation and family maintenance factors and American students were uniquely affected by the family support orientation index.
- Among **Korean** college students, MVS showed significant negative relationship with the Korean Career Indecision Inventory (r = -.63)
- When comparing Asian-American and Caucasian college students, no difference in VI.
- When comparing undergraduate and graduate level **Taiwanese** international students, older students with a lower acculturation level had higher VI.
- In **Black South-African** college students, strong reliability of MVS scale, limited evidence of construct validity

Strengths: short administration time, easy to administer; fair evidence for reliability & validity, developed by Holland as a secondary construct in his theory of vocational personalities & work environments

Weaknesses: out of print, no interventions, no translations, haphazard norms with no consideration of ethnic/culturally diverse groups, low-quality manual

Career Decision-Making Difficulties Questionnaire

Major Findings:

Overall, the CDDQ seems to have strong evidence of validity (construct, convergent, discriminate, criterion-related) among various ethnic and culturally diverse groups; however, reliability of this instrument (internal consistency, psychometric reliability) seems mixed. Additionally, the many translations of this instrument allows for ease of use for diverse groups worldwide, but each translation requires its own body of research to confirm its reliability and validity.

- In **Australian** adolescents & adults, multidimensional model of CDDQ fit both groups, but 5 firstorder factors fit better than 3. In Australian adolescents, the categories of difficulties in the CDDQ were significant determinants of decision status. In Australian adults, the Internal Conflicts & Lack of Knowledge about Additional Sources subscales had relatively low internal consistency.
- In **Israeli** college students, career decision-making difficulties showed: a high positive correlation with expressed career decision-making difficulties and a negative correlation with career decision-making self-efficacy and decidedness.
- When studying the reliability and validity of the **Chinese version** of the CDDQ, 2 stable factors were found, the Chinese version did not confirm readiness to make a career decision; In another study, Cronbach alphas ranged from .48-.87; good construct, discriminate & criterion-related validity; seemed to have psychometric reliability, more confirmation is needed.
- In **Italian** wage-earning apprentices, CDDQ's 3 dimensions showed a negative correlation with total emotional intelligence (EI); intrapersonal dimension of EI best predictor of CDDQ dimensions.
- When comparing the paper and pencil and Internet **Hebrew versions** of the CDDQ, similar internal consistency and confirmatory structure derivation of 10 categories in both groups.
- When using the **Slavic version** of the CDDQ on **Slovene** elementary students, significant differences between career decided & undecided students on personality and motivational variables

Strengths: high cost effectiveness, quick administration, available in many translations and two types of media, high reliability & validity, Internet version automatically scored & provides a report to user.

Weaknesses: no available interventions, no manual, no formal publisher, no norm groups

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* References from the literature review are available in chart form. Please inquire if you'd like to see more detail.

Comparison Cha	art of Five Readiness	Assessments
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					Average		Trasferability						
	Purpose	Author	Theory-base	Inter- ventions	Length of Testing Time	Reading Level	Translations	Formats	Qualification Level to Administer	Reliability	Validity	Norms	Populations
Career Thoughts Inventory (CTI)	of readiness for career	Lenz, Robert Reardon, &	cognitive information processing (CIP) theory of career development	CTI Workbook	7-15 minutes	6th grade	7 Languages: English, Bulgarian, Finnish, Greek, Iœlandic, Korean, Turkish	paper & pendl	background with CBT and familiarity with the manual	Cronbach alpha œefficients .74- .97	high face validity, construct validity of 3 factors well supported, but 19 items not induded in factors; good discriminant validity	high school: 396, college: 595, adults: 571, stratified by geographic area, gender, & ethnicity	11th grade students & older
Career Beliefs Inventory (CBI)	Identify assumptions blocking dient's career progress		cognitive psychology, cognitive therapy, Social Influenœ Model	none	45 minutes	8th grade	none	paper & pencil, self explanatory directions	no specific qualifications needed	Test-Retest: 1 month (.7435) 3 months (.68- .27) Cronbach alphas (.1684)	concurrent: correlated to occupation & school satisfaction; discriminant: differs from Strong, SDS, MVS, MBTI	7500 US & Australian people; sample size used to evaluate ethnic differences	male & female, employed & unemployed adults, adult & college students& high school juniors & seniors
Career Development Inventory (CDI)	Measure affective & cognitive aspects of early career development stages		Super structural model of career choice	none	60 minutes	School form: 7th grade College form: 9th grade	German, Australian, Portuguese	paper & pencil booklet, dear directions and guidance	no specific qualifications needed	(.539), lowest for cognitive scales; good internal consistancy	convergent validity: DAB, ITED. Two- factor structure well supported. Standardization sample not adequate to establich construct validity	college form: 1345 students, other forms: not representative of target populations	school form: students in grades 8-12; college form: college students
Career Decision- Making Difficulties Questionnaire (CDDQ)	Loate speafic fod of areer- deasion making diffialties		decision- making and information- processing theories	none	7-12 minutes	unknown	26 languages, some indude: Arabic, Chinese, English, Turkish, Flemish, French, German, Greek, Hebrew, Polish Italian, Spanish, Portuguese, Turkish, Ugandan	On-line, paper & pencil	no specific qualifications needed	Cronbach alphas: .7090 for 3 major categories, .95 for total score; test-retest .7980 for total score	onvergent(CDDQ & CDS77); discriminant (CDDQ & CDMSE, 50);	"It has no norms, as it is aimed at being an ipsative measure" (I. Gati, personal communication, June 17, 2011.)	11th grade students & older
My Vocational Situation (MVS)	sœen for voœtional assistanœ needs & determine treatment	John Holland, Denise Daiger, & Paul Power	Holland's theory of vocational personalities & work environments	none	5-10 minutes	unknown	none	paper & pencil, computer version (with SDS computer version)	qualifications needed	· · · · · ·	onvergent - Career Decision Scale: .67 (men), .63 (women); discriminant - Career Factors Inventory:(- .3349); factorial: mixed	haphhazard sampling, high school, college & graduate students, full- time workers, & faculty	high school & college students, adult