

DePaul University
Digital Commons@DePaul

College of Science and Health Theses and Dissertations

College of Science and Health

Spring 6-10-2022

Translation and Validation of the Caprini Risk Assessment Score for Urdu Speakers

Khairunisa Lalani DePaul University, KLALANI1@depaul.edu

Follow this and additional works at: https://via.library.depaul.edu/csh_etd

Part of the Nursing Commons

Recommended Citation

Lalani, Khairunisa, "Translation and Validation of the Caprini Risk Assessment Score for Urdu Speakers" (2022). *College of Science and Health Theses and Dissertations*. 541. https://via.library.depaul.edu/csh_etd/541

This Dissertation is brought to you for free and open access by the College of Science and Health at Digital Commons@DePaul. It has been accepted for inclusion in College of Science and Health Theses and Dissertations by an authorized administrator of Digital Commons@DePaul. For more information, please contact digitalservices@depaul.edu.

Translation and Validation of the Caprini Risk Assessment Score for Urdu Speakers

Khairunisa M. Lalani Department of Nursing, DePaul University NSG 602: DNP Project Practicum Dr. Shannon Simonovich March 11, 2022

Translation and Validation of the Caprini Risk Assessment Score for Urdu Speakers Abstract

Background: Venous Thromboembolism (VTE) is a potentially fatal condition and determination of risk level and identification of risk factors for VTE should be performed during the post-operative period. The Caprini Risk Assessment Score (CRS), is a validated risk assessment instrument tool used widely to predict postoperative VTE in the Western world, but it has limited utility among resource-poor and developing countries due to the limited English language proficiency of potential instrument users.

Aims: We aimed to translate the CRS tool to Urdu and validate its use in the Urdu speaking population through a correlation of self-administered and healthcare professional-administered scores.

Methods: The CRS was translated to Urdu by a certified translation service. Focus group interviews were conducted to identify comprehension challenges with the translation. For validation, self-administered CRS scores were compared to advanced practice nurse (APN)-administered responses. Validation participants completed the revised version of the CRS on their own. The advanced practice nurse (APN), blinded to their answers, filled out the same form with the same participants via interview. Additional reliability testing of the instrument was performed using a multi-rater rating system. The study was approved by the DePaul IRB under a waiver of informed consent. Reliability testing of the instrument was performed using a multi-rater rating system and their responses were analyzed as well.

Results: A 6-member focus group fluent in both English and Urdu (age 30-65, average age 51.5), average education level 12.66) provided feedback and final revisions for the translated tool. The 30 Urdu-speaking volunteers (average age, 50% male, and all had at least a 12^{th} -grade education) completed the final tool and were interviewed by the APN to obtain comparative scores. Using SPSS v.23, Pearson's correlation coefficient (0.869) between patient- and APN-administered scores was excellent. The correlation resulted in a statistically significant finding of 0.01 level (p<0.01). The content validity index Content validity was

performed using five experts and analysis was performed using the Cronbach alpha coefficient for an agreement which revealed a rating of 0.869.

Conclusion: This study successfully translated and validated the first Urdu version of the patientcompleted risk assessment model for VTE, which is another step forward in addressing the huge economic and health burden related to VTE.

Introduction

Venous thromboembolism, VTE, is a major complication in surgical patients. VTE compromises pulmonary embolism (PE), and/or deep vein thrombosis (DVT). PE is the main cause of death in patients who undergo aesthetic plastic surgery (Cuenca-Pardo et al., 2019). Nonfatal PE and DVT, not only cause postoperative mortality, but can also cause long-term complications including pulmonary hypertension, chronic venous insufficiency, venous congestion, and chronic leg swelling. DVT is the formation of a blood clot in the legs which if left untreated can travel to the lungs and result in a PE. The risk of VTE increases with age, with 60% of all VTE events occurring in those 70 years and older. The overall incidence of VTE is 1 to 2 per 1000 person-years in the general population, which rises to 8 per 1000 person-years in people older than 85 years (Phillippe, 2019). Risk assessment is the first step in preventing death and disability from VTE. A risk assessment must be undertaken for post-operative patients so that timely adequate prophylaxis can be initiated to prevent death and disability. In addition, reducing the occurrence of VTE in postoperative patients is imperative in reducing long-term health complications, thus encouraging positive health outcomes. Personal risk factors combined with bleeding risk should guide timely and adequate prophylaxis.

One of the risk assessment tools widely available to predict postoperative VTE, is the Caprini Risk Assessment score, CRS. (Please refer to Appendix A for the CRS). The CRS comprises of questions divided into individual risk categories. CRS uses individualized risk factors including demographics, medical/surgical history, familial history, and the procedure's type/anticipated length to predict postoperative VTE. The summation of the risk factors determines the risk of sustaining a postoperative VTE. Based on the total risk score (low, moderate, or high), mechanical and or chemical prophylaxis is recommended. The CRS scoring system provides a consistent, thorough, and efficacious method for risk stratification and selection of prophylaxis for the prevention of venous thrombosis (Cronin et al., 2019). Prasertcharoensuk et al. (2020) elaborate that PE is associated with higher mortality, therefore, surgical patients should receive VTE prophylaxis when the CRS score is high.

One reason why CRS remains underutilized is its limitations to the English language, specifically in the vulnerable population living in developed countries. In 2018, Paz Rios et al. elicited some challenges related to the use of CRS that included: relative complexity for reliable use, interpreter dependence, limitation of one language, and time-consuming for health care providers. Our study was designed to use focused interview skills to help guide the validation of the scale for Urdu speakers. Paz-Rio et al. (2018) conducted a similar study where they validated a patient who completed CRS for Spanish, Arabic, and Polish speakers with excellent correlation and agreement when compared to the CRS completed by a trained physician. Our study aimed to provide the necessary gaps in understanding the challenges with CRS for participants whose native language is Urdu. Urdu is the primary language spoken in Pakistan and other South-East Asian countries.

Literature Review

VTE etiology follows the Virchow triad: endothelial injury, venous stasis, and hyper coagulopathy causing thrombus formation. If left untreated, a DVT can result in a PE and can be fatal. Bigli et al. 2016 explained that VTE is one of the significant, yet preventable causes of in-patient morbidity and mortality. The post-operative immobility state increases the risk of developing a DVT in the absence of adequate prophylaxis. Hospitalized surgical patients are at higher risk of VTE because of immobility and hypercoagulable state; VTE occurs in up to 25% of these patients (Yang et al., 2020). In addition, the majority of patients who develop perioperative VTE are asymptomatic; thus, it is difficult to assess the actual incidence, and venography and fibrinogen uptake tests have shown the incidence of deep venous thrombosis (DVT) to be up to 25%. The incidence is even higher in patients with malignancy (Laryea et al., 2013). VTE is the leading cause of non-cancer deaths, following major abdominal or pelvic cancer surgery (Frankel et al., 2020). Risk stratification must be undertaken in the pre-operative period to initiate timely prophylaxis and avoid post-operative VTE, including its long-term health complications.

Presently, there exist several instruments that predict the probability of sustaining a VTE and treatments accordingly. Among these is the American College of Chest Physicians established guidelines, the Khorana score for detecting VTE in cancer patients, the Wells criteria for VTE, and the CRS for postoperative VTE. In addition, a balance between individual risk factors and the bleeding risk should be considered when deciding on treatment modalities for postoperative anticoagulation. According to Cronin et al. (2013), Dr. Joseph Caprini led a group of physicians, nurses, and medical students, developed the CRS, and first published it in 1991. CRS scoring system provides a consistent, thorough, and efficacious method for risk stratification and selection of prophylaxis for the prevention of venous thrombosis. CRS uses individualized risk factors that include demographics; medical/surgical history, familial history, and the procedure type/anticipated length. A study conducted by Bo et al. (2010) for patient stratification in China suggested that the Caprini CRS could be effectively used to stratify hospitalized Chinese patients into DVT risk categories, based on individual risk factors. Krauss et al. (2019) conducted a study for implementing and validating of 2013 CRS for arthroplasty patients. They concluded that this instrument provided a consistent, accurate, and efficacious method for risk stratification. Frankel et al. (2020) elaborate that the CRS has been validated in otolaryngology, thoracic, gynecologic oncology, and highrisk reconstructive and plastic surgery patients. The above highlights the established validity and reliability of the assessment instrument for post-operative patients.

Although the CRS has been used extensively, and validation studies conducted, there are some limitations to its use. One of the evident challenges is English proficiency. The concept of the validity of translated scales/scores was studied while conducting this literature review. In a study by Papadima et al. (2020) were the authors of a Menopause-specific Quality of Life (MENQOL) questionnaire in the Greek language concluded that the Greek version of the MENQOL is a reliable instrument for evaluating the quality-of-life measures in menopausal women. In addition, Bangash et al. conducted a similar study in 2020 where they sought to validate an Urdu translation of premature ejaculation diagnostic instrument (PEDT) and concluded that the translated version has validity and internal consistency. Similar research was done by Khan & Adil (2020) for the translation of the Friendship scale to Urdu that the Urdu version of the scale is a reliable and validated measure for that population. In addition, Jahangir & Batool (2020) aimed to translate Trust in Close Relationship scale (1989) into Urdu for married couples in Pakistan and established that this Trust scale translated version has good reliability and validity. In the light of the above review, it is evident that translated and validated scales show reliability when used for a specific population.

Methods

We recruited six participants for our focus group and thirty participants for our validation group. Participants in both groups were eighteen years or older, were of Southeast Asian descent, and were proficient in both Urdu and English languages. CRS was translated into Urdu by a professional translation agency. One expert physician back-translated the Urdu-translated version of CRS into English. We also conducted the content validity exercise to check the reliability of the translated scale with five experts.

Step 1: Focus Group Interviews

Between August and September 2021, we conducted focus group interviews consisting of six participants. We aimed to understand the comprehension difficulty with the Urdu translated version of the CRS. Participants were asked to underline the comprehension difficulty with the translated version and find discrepancies in the language/words used for the score. All focus group participants highlighted similar terms for correction. Their feedback was then incorporated into the final translated version for the validation phase (See Appendix B for the Urdu Translation).

Step 2: Validation Phase

From September to December 2021, we performed the validation phase of the study. For this phase, we recruited thirty participants. The participants were provided the final translated version of the CRS. A full explanation of expectations related to the score was provided. Participants' BMI was calculated by the APN to avoid discrepancies in the score. An APN blinded to those answers filled out the translated CRS Urdu version for the same participants. It took participants an average of eight to fifteen minutes to fill out the score. No participant left the study or found the score to be too difficult to comprehend.

Step 3: Analysis of the Content Validity Index

To test the validity of the translated scale, we conducted a content validity index exercise using five experts. Three out of the five experts were physicians, one was a doctorate-prepared nursing faculty and one was a doctorate-prepared nurse practitioner. The content validity index was used to determine any issues in terms of the relevancy of the items in the CRS-Urdu using a 4-point scale with the following anchor and values: 1= not relevant, 2 = somewhat relevant, 3 =quite relevant, 4 = highly relevant. (Please refer to Appendix C for details). Researchers typically determine the overall CVI, by each item in the CVI is computed as the number of experts giving a rating of either 1 or 2 (thus dichotomizing the ordinal scale into somewhat relevant and not relevant), and then divided by the total number of experts (Polit & Beck, 2006; Polit et al., 2007).

Results

Study Participants

We recruited six participants for the focus group. Their feedback was obtained for making changes to the final version of the translated version of the risk assessment score in Urdu. In the validation phase of the study, we recruited thirty participants (n=30). The group consisted of fifteen females (n=15) and the remainder of the 15 participants were males (n=15). The age of the participants ranged from 29 to 65 years with a mean age of 50.67 years. The participants spent a median of 10 minutes (8-12 minutes) filling out the form. Out of the 30 participants 9 were high school graduates (30%), 12 had

a bachelor's degree (40%), and 9 had a master's degree (30%). When combined, the majority of the participants were classified as low risk based on the VTE based on the CRS (scores between 0-3) with an exception of one participant who scored a high-risk score of 7. None of the participants left the study and no participant found it difficult to comprehend. The content validity index of the scale was completed by a total of five raters, out of which three were physicians, a doctorate-prepared nurse practitioner, and a Ph. D in nursing.

Key Findings

The Pearson Correlation testing was performed to assess for agreement between the answers of the participants and the advanced practice nurse. The correlation between the two scores was excellent. The correlation resulted in a statistically significant finding of p<0.01 level (See table two for details of the correlation statistics findings). The content validity index, CVI, was completed by the five raters. The CVI was analyzed using the multi-rater alpha coefficient. The above test revealed a content validity index of 0.868. The correlation analyses demonstrated a statistically significant relationship between the scores of the participants and the APN. (p< 0.01).

Variables	Cohort, n = 30
Age (mean [range])	50.67 [29-65]
Gender (%)	
Men	50%
Women	50%
Education level (n [%])	
Elementary	
High School	9 [30]
College	12 [40]
Postgraduate	9 [30]

Correlations

		Recorded participant	Recorded APN
		risk score	risk score
Recorded participant	Pearson Correlation	-	
risk score	N	30	
Recorded APN	Pearson Correlation	1.000**	
risk score	Sig. (2-tailed)	< 0.01	
	N	30	30
**Correlation is significant	at the 0.01 level (2-tailed)		

Cronbach's Alpha	N of Items
0.868	31

Discussion

It is well documented that VTE risk assessment should be undertaken for post-operative patients so that timely adequate prophylaxis can be initiated to prevent death and disability from VTE. Dashe et al. in 2020 emphasized that the CRS is a widely accepted model with established history and utilization as a reliable predictive VTE risk assessment instrument. One reason why the CRS remains underexplored is its English proficiency. Similar studies related to the validation of scales have been conducted. Jahangir & Batool (2020) aimed to translate Trust in Close Relationship scale (1989) into Urdu for married couples in Pakistan and established that this Trust scale translated version has good reliability and validity. Our goal for the study was to bridge the necessary gaps in understanding the CRS for participants whose native language is Urdu. Our study aimed to validate a patient-completed CRS for Urdu speakers. We also aimed to find the content validity index of the translated scale by five experts. Our key findings included an excellent correlation between the patient's completed CRS score with the APN's completed CRS score. The correlation resulted in a statistically significant finding of 0.01 level (p<0.01). In addition, the reliability statistic used to analyze the multi-rater content validity index, the Cronbach's alpha showed a statistically significant coefficient of 0.868.

We have created and validated the first Urdu version of the patient-completed Caprini risk assessment score. Our study's objectives were similar to the one conducted by Paz Rios et al. (2018), where they sought to validate a patient who completed CRS for Spanish, Arabic, and Polish speakers. The authors created and validated the first-ever Spanish, Arabic, and Polish versions of the patient-completed CRS with excellent correlation and agreement when compared to the CRS completed by a trained physician. Our study utilized a similar model for conducting validation of the CRS for Urdu speakers. Our study showed an excellent correlation between the CRS scores completed by the participants when compared to the CRS scores completed by the APN. The study accomplished our goal to understand the necessary gaps in understanding the CRS for participants whose native language is Urdu.

The study was strong we were able to recruit participants from a diverse South-East Asian population. One of the strengths of our study was the utilization of interview techniques to incorporate changes to the final version of the CRS. The study showed an excellent correlation between the two scores and the content validity index of the multi-rater was excellent. A few limitations of our study were the small sample size and the inclusion of participants below a high school graduation level.

Clinical Implications

Our study aimed to understand the challenges with the understanding of risk assessment scales for patients whose native language is not English. This study validates the fact that when risk assessment scales are provided in the native language, patients can comprehend them while clinicians can utilize the scale to put measures in place and void adverse clinical outcomes. This is extremely important since completing the CRS allows for understanding the risks associated with VTE, so that appropriate life-saving timely prophylaxis can be initiated. This translated and validated scale now is readily available for both clinicians and patients for utilization in a clinical setting. One limitation of using risk assessment scores in English is the time commitment on behalf of the clinicians. With the availability of the translated version clinicians won't be pressed for time to translate the original English scale for the Urduspeaking population. This will allow for patients' empowerment as they become active partners in shared decision-making. In addition, using the score will allow for providing adequate prophylaxis in a less timely fashion since time will be saved with a readily translated score. The self-completed questionnaire, combined with a discussion between the patients and the clinical team to devise a post-operative plan will serve both the out-patient and in-patient population. One thing to consider is that the scale should not be

the only resource utilized when deciding on postoperative prophylaxis. The patient-provider discussion and other health-related factors such as the risk of bleeding should also be considered.

Implications for Future Research

Hospital admissions for DVT and PE represent a substantial cost burden to the US health care system. Gross et al. (2016) report that the thrombosis events conservatively cost the US healthcare system \$7-10 billion each year. In addition, Stone et al. (2017) explain that VTE affects an estimated 1 per 1,000 people and contributes to 60,000-100,000 deaths annually. The overall incidence of VTE is 1 to 2 per 1000 person-years in the general population, which rises to 8 per 1000 person-years in people older than 85 years (Phillippe, 2019). Clinicians have the potential to reduce the clinical and economic burden of VTE by ensuring to provide risk stratification using validated tools to avoid adverse health care outcomes. Steps must be taken to prevent thrombosis. Our study adds to this purpose by allowing patients to fill out the form in their language, saving time and aiding in preventing adverse health care outcomes.

Conclusion

Predicting the post-operative thrombosis risk is imperative in avoiding adverse health outcomes. Allowing the patients to calculate risk assessment in their native language allows for shared decision making thus enhancing compliance. The CRS validation study was undertaken to identify the fact that language barriers can hinder the understanding of laymen people and they may not benefit from the risk assessment needed for positive health outcomes. The first Urdu version of the patient-completed risk assessment model is another step forward in addressing the huge economic and health burden, decreasing post-op thrombosis and resulting complications, thus improving health care outcomes. Similar studies are warranted to understand the knowledge gap encountered while completing the CRS by people whose native language is not English.

References

Bangash, M., Aziz, W., Shoaib, M., & Ather, M. H. (2020). Urdu translation and validation of premature ejaculation diagnostic instrument (PEDT). *Pakistan Journal of Medical Sciences*, 36(6), 1241–1245. <u>https://doi.org/10.12669/pjms.36.6.2405</u>

Bo, H., Li, Y., Liu, G., Ma, Y., Li, Z., Cao, J., Liu, Y., Jiao, J., Li, J., Li, F., Liu, H., Zhu, C., Liu, H.,

Song, B., Jin, J., Liu, Y., Wen, X., Cheng, S., Wan, X., & Wu, X. (2020). Assessing the risk for development of deep vein thrombosis among Chinese patients using the 2010 Caprini Risk assessment model: A prospective multicenter study. *Journal of Atherosclerosis and Thrombosis*, 27(8), 801–808. <u>https://doi.org/10.5551/jat.51359</u>

Cronin, M., Dengler, N., Krauss, E. S., Segal, A., Wei, N., Daly, M., Mota, F., & Caprini, J. A. (2019).

Completion of the updated Caprini risk assessment model (2013 Version). *Clinical and Applied Thrombosis/Hemostasis: Official Journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis*, 25, 1076029619838052. <u>https://doi.org/10.1177/1076029619838052</u>

Cuenca-Pardo, J., Ramos-Gallardo, G., Cárdenas-Camarena, L., Contreras-Bulne, L., & Lelevier
 De Alvear, G. Searching for the best way to assess the risk of thrombosis in aesthetic plastic surgery; The role of the Caprini/Pannucci Score. *Aesthetic Plastic Surgery*, 43(5), 1387–1395 (2019). <u>https://doi-org.ezproxy.depaul.edu/10.1007/s00266-019-01428-z</u>

Dashe, J., Parisien, R.L., Pina, M., DeGiacomo, A. F., Tornetta III, P., & Tornetta, P., 3rd.

(2019). Is the Caprini score predictive of venothromboembolism evens in orthopaedic fracture patients? *Journal of Othopaedic Trauma*, *33*(6), 269-275. https://doi.org.exproxy.depaul.edu/10.1097/BOT. 00000000001451

Frankel, J., Belanger, M., Tortora, J., McLaughlin, T., Staff, I., & Wagner, J. (2020). Caprini score and

surgical times linked to the risk for venous thromboembolism after robotic-assisted radical prostatectomy. *Truk Urolojii dergisi/ Turkish Journal of Urology*.

https://doi.org/10.5152/tud.2019.19162

Jahangier, H., & Batool, S.(2020). Urdu translation and Validation of trust in close relationship scale. *Journal of Arts & Social Sciences*, 7(2), 173–184.

Khan, A., & Adil, A. (2020). Urdu translation of friendship scale: Evidence for the validity and measurement invariance across gender. *The Spanish Journal of Psychology*, 23. <u>https://doi.org/10.1017/SJP.2020.9</u>

Krauss, E. S., Segal, A., Cronin, M., Dengler, N., Lesser, M. L., Ahn, S., & Caprini, J. A. (2019).

Implementation and validation of the 2013 Caprini score for risk stratification of arthroplasty patients in the prevention of venous thrombosis. *Clinical and Applied Thrombosis/Hemostasis: Official Journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis, 25,* 1076029619838066. <u>https://doi.org/10.1177/1076029619838066</u>

- Laryea, J., & Champagne, B. (2013). Venous thromboembolism prophylaxis. *Clinics in Colon and Rectal Surgery*, 26(3), 153–159. <u>https://doi.org/10.1055/s-0033-1351130</u>
- Papadima, E.-I., Boutsiadis, A., Soldatou, A., Ivanidou, S., Vassilakou, T., & Michala, L. (2020). Linguistic translation and validation of the Menopause-specific Quality of Life (MENQOL) questionnaire in Greek menopausal women. *Menopause*, 27(7), 808–815. <u>https://doiorg.ezproxy.depaul.edu/10.1097/GME.00000000001527</u>

Paz-Rios, L.H., Feuntes, H.E., Oramas, D.M., Andrade, X. A., Al-Ogali, A., Iskandar, A., Kowacz, W.,
Iwanski, A., Acob, C., Diaz Quintero, L., Salazar-Adum, J. P., Tafur, A., & Caprini, J. A. (2018).
Validation of a patient-completed Caprini risk assessment instrument for Spanish, Arabic, and

Polish Speakers. *Clinical and Applied Thrombosis/Hemostasis: Official Journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis*, 24(3), 502–512. https://doi.org/10.1177/1076029617746505

- Prasertcharoensuk, S., Wongkonkitsin, N. & Chantawibul, S. Incidence of pulmonary embolism in surgical patients: Hospital-based. *Indian J Surg* 82, 497–500 (2020). <u>https://doi-org.ezproxy.depaul.edu/10.1007/s12262-019-02007-x</u>
- Phillippe H. M. (2017). Overview of venous thromboembolism. *The American Journal of Managed Care*, 23(20 Suppl), S376–S382.
- Polit, D. F., & Beck, C. T. (2006). The content validity index: Are you sure you know what's being reported? Critique and recommendations. *Research in Nursing & Health*, 29(5), 489–497. https://doi.org/10.1002/nur.20147
- Stone, J., Hangge, P., Albadawi, H., Wallace, A., Shamoun, F., Knuttien, M. G., Naidu, S., & Oklu, R. (2017). Deep vein thrombosis: pathogenesis, diagnosis, and medical management. *Cardiovascular Diagnosis and Therapy*, 7(S3), S276–S284. <u>https://doi.org/10.21037/cdt.2017.09.01</u>

Yang, M., Murphy, P.B., Allen, L., Sela, N., Govind, S., Leslie, K., & Vogt, K. (2020).
Venous thromboembolism in emergency general surgery patients: A single-centered retrospective cohort study. *Canadian Journal of Surgery*,63 (1), E80-E85. <u>https://doi.org/10.1503/cjs.006318</u>

Appendix A Caprini Risk Assessment Score



Appendix B: Urdu Translation of the Caprini Risk Assessment Score.



17

نام

آیا آپ کو اندرونی رگوں میں انجماد خون DVTکا خطرہ ہے، جو ایسا انجماد خون ہے جو آپ کی ٹائگوں کی اندرونی رگوں میں بنتا ہے۔ آپ کی موجودہ صحت کا ایک جانزہ یہ تعین کر سکتا ہے کہ آیا آپ کو اس کیفیت کا خطرہ ہے۔ اپنے لیے اس فارم کو مکمل کرنے کے لیے تھوڑا وقت نگائیں (یا اپنے کسی عزیز کے لیے اس فارم کو مکمل کریں) ۔ پھر اپنے ڈاکٹر سے خود کو درپیش DVTکے خطرے اور اس کے بارے میں ضرور بات کریں کہ آپ اس کے خلاف تحفظ کے لیے کیا کر سکتے ہیں۔ آپ کے ڈاکٹر آئندہ حوالے کے لیے آپ کی فائل میں اس کی ایک کا پی رکھنا چاہ سکتے ہیں ۔



مردہ ولادت جس کی کوئی واضح وجہ نہ ہو، بار بار حمل کا گرنا (3 بار سے زیادہ)، وقت سے پہلے بچے کی پیدائش مع ٹاکسیمیا یا نشوونما کی تحدید والا بچہ

	1	1 4	 	4
	فيدتعا ف	كتجيه فتعلف	iel ziejeb	انستماق متعاذ
41-60عمر		÷.		
معمولی سرجری (45 منٹ سے کم) کا منصوبہ				
پچھلے مہینے کے دوران بڑی سرجری 45 منٹ سے طویل				
نظر آ رہی پھولی ہوئی رگیں				
سوجی ہوئی آنت کے مرض (IBD) (مثال کے طور پر ،				
کروہن کا مرض یا السرائٹس کولائٹس)				
ثانگوں میں سوجن (موجودہ)				
حد سے زیادہ وزن یا موٹاپا (قد اور عمر کی نسبت سے وزن یا				
موٹاپاین 25 سے زیادہ)				
دل کا دوره				
دل کی ناکامی/ دل کی کمزوری کی بیمار ی	2			
شدید انفیکشن(مثال کے طور پر، نمونیا)				
بھیپھڑے کا مرض (مثال کے طور پر ، امپھیسیما یا COPD)				
بستری آرام پر ہیں یا حرکت محدود ہے یا 72 گھنٹوں سے				
کم وقت کے لیے ہٹایا جا سکنے والا ٹانگوں کا بریس				
خطرات کے دیگر عوامل (ہر ایک کے لیے 1 پوائنٹ) ***				
طرے کے اضافی عوامل جن کو خون کے جمنے سے وابستہ دکھایا گیا ہے ***	ż.			
جن میں 40 سے زیادہ BMI سگریٹ نوشی ذیابیطس جس کے لئے انسولین کی	,			
ضرورت ہو کیموتھیر اپی خون کا چڑھنا اور 2 گھنٹے سے طویل سرج ری				
شامل ہے				

Appendix C Content Validity Index Survey in Urdu for Experts

	1			
	ليوتعلف	ileio 3	sier Geb	انتساق صنعلق
حمل روکنے کی دوائی والے علاج (HRT) کا حالیہ استعما ل				
حاملہ ہیں یا پچھلے مہینے کے دوران آپ کے یہاں پیدائش ہوئی				
مردہ ولادت جس کی کوئی واضح وجہ نہ ہو، بار بار حمل کا				
گرنا (3 بار سے زیادہ) ، وقت سے پہلے بچے کی پیدائش مع				
ٹاکسیمیا یا نشوونما کی تحدید والا بچہ				
	A A A A A A A A A A A A A A A A A A A	State Andrew Providence	Contraction Station	States and the states of

CONTENT VALIDITY INDEX

	1	2	3	4
	غيرمنعلف	ile of	ilingib	التساق حقال
61-74سال کی عم				
حالیہ اور پچھلے مہلک سرطان جلد کے سرطان جن میں				
میلونوما شامل ہے مگر جلد کا کینسر شامل نہیں				
منصوبہ بند بڑی سرجری جو 45 منٹ سے زیادہ طویل ہو			-	
(بشمول ليپروسکوپک اور آرتهروسکوپک)				
ہٹایا نہ جاسکنے والا پلاسٹک کاسٹ یا مولڈ جس نے پچھلے				
مہینے کے دوران آپ کی ٹانگوں کو حرکت سے روک رکھا ہو				
پچھلے مہینے کے دوران گردن یا سینے کی رگ میں ٹیوب لگایا		•		
جانا جو خون یا دوا کو براہ راست دل میں بھیجتی ہو مرکزی رگ				
ک رسائی، PICC لائن، یا پورٹ بھی کہا جاتا ہے				
72گھنٹے یا زیادہ وقت سے بستر تک محدود ہوں				

		-		
	ilitation	لتحصي فتعلقه	istaines 6	التشيافي منعلقا
75سال یا زائد عمر کے ہیں	·	44 1		· ·
انجماد خون کی سرگزشت، یا تو اندرونی رگ میں انجماد خون				
DVT یا پلمونری امبولزم PE				
خون کے جمنے کی خاندانی بیماری				
خون کے جمنے والے عناصر کی ذاتی یا خاندانی بیماری				
کولہے/ گھٹنے کو تبدیل کرنے کی انتخابی elective سرجر ی				
ٹوٹے ہوئے کولہے، پیریا ٹانگیں				
سنگین حادثه مثال کے طور پر ، گرنے یا کار حادثے کے سبب				
متعدد ہڈیوں کا ٹوٹنا				
حرام مغز یا کمر کی چوٹ جس کے نتیجے میں فالج ہوا ہو				
اسٹروک/ فالج کا سامنا				
		and the state of the		the fact the set