# Appendix 1. Matrix of choosing nutritional topics for data collection tool

| No | The Vietnamese clinical nutrition guideline (36 techniques and procedures) | MATRIX OF KAP QUESTION FROM EALIER STUDY ACCORDING TO 7 CONTINENTS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **SECTION 1: NUTRITION RISK SCREENING** | **Asia** | **Europe** | **Africa** | **North America** | **South America** | **Australia/ Oceania** | **Antarctica** | **Literature/ systematic review/ international online survey** |
| **1** | Nutrition risk screening (Refeeding syndrome, NRS, modified NUTRIC) | Gaza strip Nurse (Naser *et al.*, 2021); Palestine nurse and physicians (K,A) (Shakhshir and Alkaiyat, 2023); Jordan Nurse (K,A) (Al Kalaldeh and Shahin, 2014); Malaysia doctors and pharmacists (Karim *et al.*, 2015); Saudi Arabia physicians (K) (Bahashwan *et al.*, 2023) | Autria healthcare workers (Eglseer, Halfens and Lohrmann, 2018); 4 European countries nurse (K) (Bauer *et al.*, 2023); Europe countries healthcare workers (Mowe *et al.*, 2008); Greece nedical doctor (K) (Grammatikopoulou *et al.*, 2019) | Ghana nutritionist/dietitian/ RD (Ayande *et al.*, 2023); Kenya surgical nurse (Kobe, 2006) | Canada hospital staff (A,P) (Laur *et al.*, 2016); US Oncology RDN (Burton-Obanla *et al.*, 2022); Canada dietitians (P) (Vivanti, Lewis and O'Sullivan, 2018) ; Canadian nurse (Duerksen *et al.*, 2016) | N/A | Clinical dietitian nutritionists of Australia + 10 different countries (K, refeeding syndrome) (Matthews, Palmer and Capra, 2018); Australia Healthcare worker + dietitians (K,A) (Swan *et al.*, 2020) | N/A | General practitioners (Vrkatić *et al.*, 2022); Healthcare workers (Lyons *et al.*, 2022); Dietitian/Nutritionists (Bartrim *et al.*, 2023) |
| | **SECTION 2: ASSESSMENT OF NUTRITIONAL STATUS** | **Asia** | **Europe** | **Africa** | **North America** | **South America** | **Australia/ Oceania** | **Antarctica** | **Literature/ systematic review/ international online survey** |
| **2** | Assessment nutritional status by using anthopometric among children from 24 to 60 months | N/A | N/A | Ghana future doctors (Mogre, Aryee, *et al.*, 2017); Ghana nurse (K, A) (Mogre, Yakubu, *et al.*, 2017); Kenya Nurse, clinical officers, nutritionists (Nabukanda *et al.*, 2018) | N/A | N/A | N/A | N/A | N/A |
| **3** | Assessment nutritional status by using anthopometric among children from 5 to 19 years old | N/A | N/A | Kenya Nurse, clinical officers, nutritionists (Nabukanda *et al.*, 2018) | N/A | N/A | N/A | N/A | N/A |
| **4** | Assessment nutritional status for adults by using anthopometric | Gaza strip Nurse (Naser *et al.*, 2021); Taiwan Primary care physicians (Hu, Wu and Liu, 1997); Jordan Nurse (K,A) (Al Kalaldeh and Shahin, 2014); Malaysia doctors and pharmacists (Karim *et al.*, 2015); Korea Nurse (K,A) (Kim and Choue, 2009) | | Nigeria medical and nursing students (K,A) (Ani *et al.*, 2022); Kenya surgical nurse (Kobe, 2006) | Canada hospital staff (A,P) ((Laur *et al.*, 2016); Canada dietitians (P) (Vivanti, Lewis and O'Sullivan, 2018); America resident physicians (Vetter *et al.*, 2008) | | Austratia dietitian (P) (Clarke *et al.*, 2023) | | General practitioners (Vrkatić *et al.*, 2022) |
| **5** | Assessment nutritional status by using anthopometric among children under 24 months | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# Appendix 1. Matrix of choosing nutritional topics for data collection tool

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|---|---|---|---|---|---|---|---|---|---|
| **6** | Assessment complihensive nutritional status by using specific tool (SGA, PG SGA) | Jordan Nurse (K,A) (Al Kalaldeh and Shahin, 2014); Korea Nurse (K,A) (Kim and Choue, 2009); Saudi Arabia physician (K)(Aldubayan *et al.*, 2021) | European country Nures (K,P) (Socratous et al., 2021); ; Europe countries healthcare workers (Mowe *et al.*, 2008); Norway, Denmark, Sweden nurses and doctors (Mowe *et al.*, 2006); Canadian gastroenterologists (Singh and Duerksen, 2006) | N/A | N/A | N/A | Australia dietitian (West *et al.*, 2022); Australia Healthcare worker + dietitians (K,A) (Swan *et al.*, 2020) | N/A | Healthcare workers (Lyons *et al.*, 2022); Healthcare professionals and dietitian/nutritionists (Baracos *et al.*, 2022) |
| **7** | To estimate standing height by using knee height | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **8** | Assessment Triceps Skinfold thickness (TSF) | Jordan Nurse (K,A) (Al Kalaldeh and Shahin, 2014) | | Kenya Nurse, clinical officers, nutritionists (Nabukanda *et al.*, 2018) | | | | | |
| **9** | Assessment Arm Muscle Area (AMA) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **10** | Assessment body composition by Bioelectrical Impedance Analysis (BIA) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **11** | Assessment sarcopenia syndrome | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **12** | Assessing 24-hour recall dietary | Iran Nurse (Farzaei *et al.*, 2023); Taiwan Primary care physicians (Hu, Wu and Liu, 1997); Palestinian nurses (Hamdan *et al.*, 2022); Jordan Nurse (K,A) (Al Kalaldeh and Shahin, 2014) | Norway, Denmark, Sweden nurses and doctors (Mowe *et al.*, 2006) | N/A | N/A | N/A | N/A | N/A | N/A |
| **13** | Measure patient's weight by using specifice scale (bed scales for bedridden patients) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **14** | Assessment nutritional status among severe patients by ultrasound measurements of quadriceps muscle thickness | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **15** | Measure Indirect caloriemetry (IC) among severe patients | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | **SECTION 3: DESIGN HOSPITAL DIETARY** | **Asia** | **Europe** | **Africa** | **North America** | **South America** | **Australia/ Oceania** | **Antarctica** | **Literature/ systematic review/ international online survey** |
| **16** | Menu planning for patients with a single disease | Bahrain medical students (K) (Al-Madani, Landman and Musaiger, 2004); Indian GPs (Nakhoda, | N/A | Tanzania healthcare workers (KAP, kidney disease) (Munuo *et al.*, 2016); Ghana future | American cardiology doctor and nurse (K)(Harkin *et al.*, | N/A | N/A | N/A | N/A |

# Appendix 1. Matrix of choosing nutritional topics for data collection tool

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|---|---|---|---|---|---|---|---|---|---|
| | | Hosseinpour-Niazi and Mirmiran, 2021); Saudi Arabia physician (K)(Aldubayan *et al.*, 2021) | | doctors (Mogre, Aryee, *et al.*, 2017); Nigeria medical and nursing students (K,A) (Ani *et al.*, 2022) | 2019), American physicians (K) (Calandra *et al.*, 2022; McLeod *et al.*, 2022); America resident physicians (Vetter *et al.*, 2008) | | | | |
| **17** | Menu planning for patients with combined diseases | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **18** | Menu planning for patients with specific condition (before, during, and post organ transplantation) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **19** | To create a tube-feeding diet for enteral (stomach, small intestinal) | Palestinian nurses (Hamdan *et al.*, 2022); China physician and nurse (Lyu *et al.*, 2021); Saudi Arabia physician (K)(Aldubayan *et al.*, 2021); Chinese physician (A) (Xu *et al.*, 2015) | UK health care profesionals and dietitian (Lane *et al.*, 2014) | South Africa healthcare professionals and dietitians (K,A) (Mooi and Ncama, 2020); Kenya surgical nurse (Kobe, 2006) | American resident doctors (Westfal *et al.*, 2011); American physician (K,A) (Eustace, Cole and Hollaway, 2021); America resident physicians (Vetter *et al.*, 2008) | | Đậm độ năng lư | | Healthcare workers (Lyons *et al.*, 2022) |
| **20** | To create a pre-operation diet (within 24 hours before anaesthesia, patients with risk of malnutrition or malnutrition before GT surgery) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **21** | To create a post-operation enteral diet for patients | Palestinian nurses (Hamdan *et al.*, 2022); China physician and nurse (Lyu *et al.*, 2021) | N/A | N/A | N/A | N/A | N/A | N/A | Healthcare workers (Lyons *et al.*, 2022) |
| **22** | To create the requirement for macronutrients for patients who use nurturing intravenous (TPN - Total parenteral nutrition) | China physician and nurse (Lyu *et al.*, 2021); Malaysia doctors and pharmacists (Karim *et al.*, 2015) | UK dietitian (K) (Douglas *et al.*, 2015), Europe countries healthcare workers (Mowe *et al.*, 2008) | Ghana nutritionist/dietitian/ RD (Ayande *et al.*, 2023) | N/A | N/A | N/A | N/A | N/A |
| **23** | To create the requirement vitamins and minerals for patients who use parenteral nutrition | N/A | UK dietitian (K) (Douglas *et al.*, 2015); Europe countries healthcare workers (Mowe *et al.*, 2008) | Ghana nutritionist/dietitian/ RD (Ayande *et al.*, 2023) | N/A | N/A | N/A | N/A | N/A |
| **24** | Monitoring 24-hour recall dietary | Palestinian nurses (Hamdan *et al.*, 2022) | Norway, Denmark, Sweden nurses and doctors (Mowe *et al.*, 2006) | N/A | Canada hospital staff (A,P) (Laur *et al.*, 2016) | N/A | Austratia dietitian (P) (Clarke *et al.*, 2023) | N/A | N/A |

# Appendix 1. Matrix of choosing nutritional topics for data collection tool

| | SECTION 4: PREPARING/ PROCESSING FOOD | Asia | Europe | Africa | North America | South America | Australia/ Oceania | Antarctica | Literature/ systematic review/ international online survey |
|---|---|---|---|---|---|---|---|---|---|
| **25** | Technic to liquefy diet (enzymatic liquefaction of liquid diets) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **26** | Technic to soften the diet | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **27** | To prepare nutritional diet for infants (0-6months) in case without breast milk | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **28** | To process weaning diet for the aged 7 months to 12 months | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **29** | To process weaning diet for the aged 13 months to 24 months | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **30** | To process nutritional diet for the aged 25 months to 36 months | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **31** | To process nutritional diet for tube-feeding patients | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **32** | To mix additional a single nutrient (Whey, casein, maltodextrin, MCT, BCAA, and so on) into tube-feeding diet | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **33** | To make up 12.5% carbohydrate solution | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **34** | To prepare intravenous fluids | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **35** | Technic to feed dysphagia patients | China Nurse (Deng *et al.*, 2022; Luo, Wei and Zhang, 2022); China physician and nurse (Lyu *et al.*, 2021); Iran Healthcare professionals (Farpour *et al.*, 2019) | European country Nures (K,P) and (K)(Socratous *et al.*, 2021; Bauer *et al.*, 2023) | N/A | N/A | N/A | New Zealand healthcare staff and chief, (K,A) (Wu, Miles and Braakhuis, no date) | N/A | N/A |
| | **SECTION 5: FOOD HYGIEN AND SAFETY** | **Asia** | **Europe** | **Africa** | **North America** | **South America** | **Australia/ Oceania** | **Antarctica** | **Literature/ systematic review/ international online survey** |
| ***36*** | *Rapid methods for the detection food safety technique (qualitative)* | *N/A* | *N/A* | *Morocco healthcare workders, dietitian, chief (K,P)* (Guennouni *et al.*, 2022) | *N/A* | *N/A* | *N/A* | *N/A* | *N/A* |

*K, knowledge; P, practice; A, attitude*

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# Appendix 1. Matrix of choosing nutritional topics for data collection tool


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