19. Interpret guidelines or other non-legal 61. Describe relevant regulations for non-67. Describe roles and functions of data 60. Describe principles for ethical conduct 48. Understand principles and safety monitoring boards (DMSBs) 67 policies related to health research ethics human animal health research ethics of non-human animal health research related to human rights 64. Understand principles of database 49. Understand ealth rese or registry-based research 51. Understand principles of 7. Follow emerging ethical the health system health research methods challenges in health research 18. Interpret legal regulatio **49** 53. Understand philosophical 20. Understand roles and respon ethics to health research ethics basis of health research ethics stakeholders in health resear ethics system 65. Understand principles of pre-6. Coordination, stewardship, and responsiveness 2. Laws, regulations, guidelines, clinical or bench research erstand science underlying 👛 11 in health research ethics systems and policies for research oversight ces in medical treatments 70. Understand principles related to privacy 66 Understand religious foundations 55. Understand historical development 54. Understand theories and principles ealth research ethics of health research ethics policies 59. Describe the basic principles relevant to health research ethics 71. Assess what resources are needed for proper underlying informed consent 63 74. Engage in quality improvement nderstand principles of sociobehavioral research health research ethics systemfund activities to enhance health research ethics 58 ecognize the relevance 62. Understand principles of clinical trials 42. Use available resources of ethics in health research 6 58. Describe the role and function efficiently of research ethics committees 22 22. Develop structures that facilitate 9. Analyze ethical challenges Understand principles of coordination of research ethics committees presented by new technologies 1. Foundational knowledge earch integrity 41. Access resources or expe to address ethical challens 39. Educate others who 69. Apply a cepted standards for 15. Identify ethical 40. Educate health have formal roles in health ethical health research problems in health research ethics trainers research ethics oversight research conduct 8. Respond to emerging 68. Demonstrate an awareness of accepted 5. Lifelong learning, education, challenges in health rese standards for ethical health research ethics research, and scholarship 10. Analyze ethical 50. Identify ps in the health challenges presented by consider how scientific adva big data 57 Performress 23. Communicate clearly on health ch ethics system tage some populations ethics topics research ethics topics in written form 31. Challenge norms or current 57 13. Analyze the harms th practices 17. Propose solutions to problems in associated with health rese health research ethics 56. Engage in lifelong learning on conduct th research ethics topi 44. Demonstrate honesty 3. Ethical issue identification, 16. Analyze problems 3. Advocate for policy analysis, and resolution 47. Demonstrate passion for health related to ethical health creation for more ethical research ethics subjects 38. Educate researchers about 73. De health research ethics research 46. Demonstrate perseverance 73 to tran ethical health research 43. Cite evidence that in resolving ethical issues 👝 4. Advocate for ethics as a supports a decision or actio way to increase value of 47 72. Demonstrate accountability 5. Advocate for the health research 25. Argue for an opinion on health protection of human 29. Identify conflicts of research ethics topics in written form ow sensitivity to local interest among others in 27. Identify one's own subjects in health research 36. Educate communities about 1. Advocate for eth potential conflicts of interest cultures and norms as they health research ethics topics awareness in health relate to hea 28 45. Demonstrate impartiality research ethics system Argue for an opinion on health 35. Encourage community arch ethics topics when 28. Manage one's own participation in ethical health research 26 with other stakeholders speak 33. Consider of conflicts of interest Promote awareness of rews with an onen mind 3737. Solicit feedback from communities 32. Critique one's 4. Engagement, ealth research ethics to thical health research conduct 7. Impartiality, honesty, and communication, and the public 30. Identify what is required for others to 24 Communicate clearly on health research responsibility advocacy manage their conflicts of interest topics when speaking with other stakeholders

Figure 1.

Concept Map Used to Define Health Research Ethics Competency Domains