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| **Table S2 : Main characteristics of the studies from 2016/07/09 to 2019/04/01**  |
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| **References**  | **Year** | **Aim** | **Country** | **Setting** | **Number of participants** | **Data collection** | **Method** |
| 1. Blaz & al | 2018 |  to describe the functions of nurses’ paper brains in the context of a medical oncology unit at a cancer specialty hospital | United States | Cancer specialty hospital | RN=13 | SSi | Content analysis |
| 2. Davis & al | 2017 | To understand what it means to be an oncology nurse, and the factors that facilitate or hinder being an oncology nurse.  | Canada | 2 in-patient units in a tertiary care | RN=6 | In-depth interviews | Thematic analysis |
| 3. Dhotre & al | 2016 | To describe the experiences of oncology nurses whose patients prematurely discontinue cancer chemotherapy. | South Carolina | Large oncology clinic | RN=7 | SSI | Thematic analysis |
| 4. Coyne & Dieperink | 2017 | To understand the factors that influence nurses’ family assessment practices in adult oncology setting in Denmark and Australia.  | Denmark and Australia | Oncology areas (inpatient, day and radiation oncology from 3 hospitals) | RN=62 | Focus group | Thematic analysis |
| 5.Finley & Sheppard | 2017 | Early-career oncology nurses’ unique CF experiences lack thorough scientific exploration. This secondary analysis seeks to qualitatively augment this paucity and illuminate targeted interventions. | United States | emergency, trauma intensive care, medical intensive care, neurology, and oncology units | RN=5 | SSI | Thematic analysis |
| 6.Flocke & al | 2017 | To describe oncology nurses’ experiences with discussing clinical trials with their patients, and to assess barriers to these discussions | United States | Community and academic-based oncology clinics  | RN=33 | In-depth interviews | Immersion-crystallization process  |
| 7.Fukumori & al | 2018 | To describe the components of nurses' cognitive reactions from their exposure to cancer patients' traumatic experience to the onset of compassion fatigue | Japan | Cancer hospitals | RN=30 | SSI | Content analysis |
| 8.Godskesen & al | 2018 | To investigate the kinds of ethical challenges experienced by nurses in oncology and hematology when nursing care and research overlap in clinical trials, and how the nurses handle such challenges.  | Sweden, Denmark and Finland | Onocology and hematology units | RN=39 | SSI | Content analysis |
| 9.Granek & al | 2019 | To explore oncology nurses’ perspectives on indicators of distress in patients, their strategies to identify these signs of distress, and their barriers. | NA | Oncology units | RN=20 | SSI | Grounded theory |
| 10.Günüsen & al | 2019 | To explore secondary traumatic stress experiences of nurses caring for cancer patients  | Turkey | Oncology inpatient clinic of a university hospital | RN=13 | SSI | Content analysis |
| 11.Güner | 2018 | to determine the views, obstacles, and needs of the nurses working with adult oncology patients with regards to psychosocial care.  | Turkey | Oncology department in 3 hospitals | RN=30 | SSI | Content analysis |
| 12.Kobleder & al | 2017 | To investigate the experiences of specialist nurses concerning their role of caring for women with gynaecological cancer.  | Switzerland | Field of gynaecological oncology | RN=12 | Focus group | Thematic analysis |
| 13.Kullberg & al | 2018 | To describe registered oncology nurses’ perceptions of person-centered handover. | Sweden | Oncological inpatient setting.  | RN=13 | SSI | Content analysis |
| 14.Maree & Mulonda | 2017 | To describe the experiences of Zambian nurses caring for women with advanced breast cancer. | Zambie | Cancer Diseases Hospital and the University Teaching Hospital | RN=17 | In-depth interviews | Thematic analysis |
| 15.Moosavi & al | 2019 | To explore the barriers and facilitators affecting spiritual care practices by oncology nurses.  | Tehran | Oncology department of 3 educational hospitals | RN=25 | SSI | Content analysis |
| 16.Pongthavornkamol | 2018 | To explore Thai oncology nurses' perceptions and understandings of patient participation in their own care during hospitalization. | Thailand | Oncology units of 1 tertiary care university hospital | RN=16 | 2 focus group | Content analysis |
| 17.Rodrigues dos Santos & al | 2016 | To understand the experience of the development of coping strategies during the professional life of nurses providing care to patients with facial image alteration. | Brazil | Reference hospital  | RN=8 | SSI | “comprehension/interpretation” scheme |
| 18.Rohani & al | 2018 | To explore the content of clinical empathy with cancer patients from the perspective of oncology nurses.  | Iran | Oncology wards (oncology, hematology-oncology and stem cell transplantation wards) | RN=15 | SSI | Content analysis |
| 19.Saifan & al | 2019 | To explore the psychological status of nurses working with cancer patients in Jordan.  | Jordan |  Oncology departments of one governmental hospital.  | RN=24 | SSI | Thematic analysis |
| 20.Taleghani & al | 2018 | To explore oncology nurses’ barriers to empathy-based care perceptions | Iran | Referral cancer center (university hospital) | RN=18 | In-depth interviews | Content analysis |
| 21.Tariman & al | 2016 | To describe the contemporary role of the oncology nurse throughout the entire cancer shared decision-making (SDM) process | United States | Oncology Nursing Society | RN=30 | SSI | Content analysis |
| 22.Topçu & Beser | 2017 | To describe attitudes, opinions and experiences of nurses administering these drugs about safe handling precautions.  | Turkey |  chemotherapy centers and clinic  | RN=15 | SSI | Thematic analysis |
| 23.Van Meurs & al | 2018 | To gain insight in the way and extent to which nurses during daily caregiving observe and explore spiritual issues of hospitalized patients with cancer. | Netherlands | Medical oncology department of a university hospital | NA | Participant observation | Ethnographic study |
| 24.Vinckx & al | 2018 | To explore oncology nurses’ experiences with time pressure, its perceived impact on nursing care and the ways in which they deal with it.  | Belgium | 5 inpatient oncology nursing wards in one academic hospital.  | RN=14 | SSI | Grounded theory approach |

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