

Supplementary Materials

Table S1. Indexers used to select publications

PubMed 1269	("food services"[MeSH Terms] OR ("food services"[MeSH Terms] OR ("food"[All Fields] AND "services"[All Fields]) OR "food services"[All Fields] OR ("services"[All Fields] AND "food"[All Fields]) OR "services food"[All Fields]) OR ("food services"[MeSH Terms] OR ("food"[All Fields] AND "services"[All Fields]) OR "food services"[All Fields] OR ("service"[All Fields] AND "food"[All Fields]) OR "food service"[All Fields]) OR ("food services"[MeSH Terms] OR ("food"[All Fields] AND "services"[All Fields]) OR "food services"[All Fields] OR ("service"[All Fields] AND "food"[All Fields]) OR "service food"[All Fields]) OR ("food services"[MeSH Terms] OR ("food"[All Fields] AND "services"[All Fields]) OR "food services"[All Fields] OR ("meal"[All Fields] AND "wheels"[All Fields])) OR ("food services"[MeSH Terms] OR ("food"[All Fields] AND "services"[All Fields]) OR "food services"[All Fields] OR ("meals"[All Fields] AND "wheels"[All Fields]) OR "meals on wheels"[All Fields]) OR "food service, hospital"[MeSH Terms] OR ("food service, hospital"[MeSH Terms] OR ("food"[All Fields] AND "service"[All Fields] AND "hospital"[All Fields]) OR "hospital food service"[All Fields] OR ("service"[All Fields] AND "hospital"[All Fields] AND "food"[All Fields]) OR ("food service, hospital"[MeSH Terms] OR ("food"[All Fields] AND "service"[All Fields] AND "hospital"[All Fields]) OR "hospital food service"[All Fields] OR ("food"[All Fields] AND "services"[All Fields] AND "hospital"[All Fields])) OR ("food service, hospital"[MeSH Terms] OR ("food"[All Fields] AND "service"[All Fields] AND "hospital"[All Fields] AND "hospital food service"[All Fields] OR ("hospital"[All Fields] AND "food"[All Fields] AND "services"[All Fields]) OR "hospital food services"[All Fields]) OR ("food service, hospital"[MeSH Terms] OR ("food"[All Fields] AND "service"[All Fields] AND "hospital"[All Fields] AND "hospital food service"[All Fields] OR ("services"[All Fields] AND "hospital"[All Fields] AND "food"[All Fields])) OR ("food service, hospital"[MeSH Terms] OR ("food"[All Fields] AND "service"[All Fields] AND "hospital"[All Fields]) OR "hospital food service"[All Fields] OR ("hospital"[All Fields] AND "food"[All Fields] AND "service"[All Fields])) OR "restaurants"[MeSH Terms] OR ("restaurant s"[All Fields] OR "restaurants"[MeSH Terms] OR "restaurants"[All Fields] OR "restaurant"[All Fields])) AND ("Sustainable practices"[All Fields] OR "Sustainability"[All Fields] OR "Environmental sustainability"[All Fields])
LILACS (by BVS) 1767	"Serviços de Alimentação" OR " Food Services" OR "Servicios de Alimentación" OR "Services alimentaires" OR "Serviço Hospitalar de Nutrição" OR "Food Service, Hospital" OR "Servicio de Alimentación en Hospital" OR " Restaurantes" OR "Restaurants" AND (db:("LILACS"))
Embase 9687	'environmental sustainability'/exp OR 'envinonmental sustainability' AND 'sustainability'/exp OR sustainability AND 'food services'/exp OR 'food services'/syn AND 'restaurant'/exp OR 'restaurant'/syn AND 'hospital food service'/exp OR 'hospital food service'/syn
Other data- bases : « IBECS" OR "BINACIS"	"Serviços de Alimentação" OR " Food Services" OR "Servicios de Alimentación" OR "Services alimentaires" OR "Serviço Hospitalar de Nutrição" OR "Food Service, Hospital" OR "Servicio de Alimentación en Hospital" OR " Restaurantes" OR "Restaurants" AND (db:("IBECS" OR

OR "BDENF" OR "BINACIS" OR "BDENF" OR "CUMED" OR "BDNPAR" OR
 OR "ARGMSAL" OR "SDG"))
 "CUMED"
 OR
 "BDNPAR"
 OR
 "ARGMSAL"
 OR "SDG"
 410

Table S2. JBI Critical Appraisal Checklist (Risk of Bias)

Author (year)	1	2	3	4	5	6	7	8	9
Aranha et al., 2018 [1]	N	U	Y	N	Y	Y	Y	Y	NA
Augustini et al., 2008 [2]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Barbosa et al., 2021 [3]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Bardini et al., 2014 [4]	Y	Y	Y	N	Y	N	N	Y	NA
Bicalho et al., 2013 [5]	N	U	Y	N	Y	Y	Y	Y	NA
Borges et al., 2019 [6]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Byker et al., 2014 [7]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Carvalho et al., 2013 [8]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Chang, 2021 [9]	Y	Y	Y	Y	Y	N	N	Y	NA
Chaves et al., 2019 [10]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Coimbra et al., 2019 [11]	N	U	Y	N	Y	U	U	Y	NA
Dagiliūtė & Musteikytė, 2019 [12]	Y	Y	Y	Y	Y	Y	N	Y	NA
Delazeri et al., 2015 [13]	N	U	Y	N	Y	Y	Y	Y	NA
Galego et al., 2014 [14]	Y	Y	Y	N	Y	N	N	Y	NA
Ilic et al., 2022 [15]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Liu et al., 2016 [16]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Lonska et al., 2022 [17]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Machado et al., 2014 [18]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Marais et al., 2017 [19]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Matzemacher et al., 2020 [20]	N	U	Y	N	Y	N	N	Y	NA
Medeiros et al., 2014 [21]	N	U	Y	N	Y	Y	Y	Y	NA
Mello et al., 2011 [22]	N	U	Y	N	Y	Y	Y	Y	NA
Nonino Borges et al., 2006 [23]	Y	Y	Y	Y	Y	N	N	Y	NA
Ofei et al., 2015 [24]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Pistorello et al., 2015 [25]	Y	Y	Y	Y	Y	N	N	Y	NA
Pontes et al., 2022 [26]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Quemelli et al., 2020 [27]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Rabelo et al., 2016 [28]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Rodrigues et al., 2015 [29]	N	U	Y	N	Y	Y	Y	Y	NA
Sabino et al., 2016 [30]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Santana et al., 2019 [31]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Saputri et al., 2019 [32]	Y	Y	Y	N	Y	N	N	Y	NA
Scholz et al., 2019 [33]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Silva et al., 2010 [34]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Silvennoinen et al., 2015 [35]	Y	Y	Y	Y	Y	N	N	Y	NA
Strapazzon et al., 2016 [36]	N	U	Y	N	Y	N	N	Y	NA

Souza et al., 2022 [37]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Thiagarajah et al., 2013 [38]	Y	Y	Y	Y	Y	N	N	Y	NA
Viana et al., 2016 [39]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Viana et al., 2017 [40]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Zandonadi et al., 2012 [41]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Zeineddine et al., 2021 [42]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Wang et al., 2017 [43]	Y	Y	Y	Y	Y	Y	Y	Y	NA
Total	Yes : 75.19%	No: 21.96%	Unclear: 2.84%		Not Applicable: 11.11%				
Questions: 1. Was the sample frame appropriate to address the target population?; 2. Were study participants sampled in an appropriate way?; 3. Was the sample size adequate?; 4. Were the study subjects and the setting described in detail?; 5. Was the data analysis conducted with sufficient coverage of the identified sample?; 6. Were valid methods used for the identification of the condition?; 7. Was the condition measured in a standard, reliable way for all participants?; 8. Was there appropriate statistical analysis?; 9. Was the response rate adequate, and if not, was the low response rate managed appropriately?									

Table S3. Full-text excluded articles and reasons

Author (year)	Reference	Exclusion Motif
Alamar et al., 2017	[44]	1
Anwar et al., 2012	[45]	4
Araújo et al., 2023	[46]	1
*Ariefuddin et al., 2009	[47]	4
Armadita et al., 2019	[48]	3
Armendro, 2021	[49]	1
Baldwin et al., 2010	[50]	1
Balzaretti et al., 2018	[51]	1
*Barton et al., 2000	[52]	3
Bassin et al., 2019	[53]	1
*Boschini et al., 2018	[54]	6
*Boschini et al., 2020	[55]	6
Boutler and Blanchard, 2021	[56]	1
Carvalho et al., 2018	[57]	1
Castro, 2011	[58]	1
*Cerrah and Yigitoglu, 2022	[59]	3
Cook Hoons et al., 2022	[60]	1
Corrêa et al., 2006	[61]	2
Cristobal et al., 2017	[62]	1
Derqui and Fernandez, 2017	[63]	1
Di Pierro et al., 2023	[64]	1
*Diana et al., 2022	[65]	8
*Dias-Ferreira et al., 2015	[66]	4
*Djamaluddin et al., 2005	[67]	3
Dogdu et al., 2024	[68]	1
Elnakib et al., 2021	[69]	1
Fassina et al., 2019	[70]	1
*Fatkhurohman et al., 2017	[71]	4
Hannibal and Vedlitz, 2018	[72]	1
Heller and Silva, 2015	[73]	1
*Heryawanti et al., 2004	[74]	4
Hidalgo-Viquez and Peña Vásquez, 2021	[75]	1
*Hopkins et al., 2023	[76]	3

*Iqbal et al., 2016	[77]	4
*Irawati et al., 2010	[78]	3
Ismail et al., 2019	[79]	1
Jia et al., 2023	[80]	1
Jones et al., 2012	[81]	1
Khalid et al., 2023	[82]	1
*Kodors et al., 2022	[83]	3
Lins et al., 2021	[84]	1
*Longo-Silva et al., 2013	[85]	3
Love et al., 2023	[86]	1
Lu et al., 2023	[87]	1
*Mardianingsih et al., 2020	[88]	4
Martin-Rios et al., 2022	[89]	1
Martindale and Schiebel, 2017	[90]	1
Mathisen and Johansen, 2022	[91]	1
Medeiros et al., 2022	[92]	1
Monteiro et al., 2014	[93]	1
Musicus et al., 2019	[94]	1
Ñunque et al., 2015	[95]	1
O'Connor et al., 2022	[96]	1
Ögel et al., 2023	[97]	2
Osei-Owusu et al., 2023	[98]	1
Palmer et al., 2021	[99]	1
*Partearroyo et al., 2020	[100]	5
Pereira et al., 2019	[101]	1
Pettinger et al., 2023	[102]	1
Pinard et al., 2014	[103]	1
Prescott et al., 2019	[104]	1
Principato et al., 2018	[105]	1
*Razalli et al., 2021	[106]	4
*Rochmah, 2020	[107]	4
*Roe et al., 2018	[108]	5
*Roe et al., 2020	[109]	5
*Schwartz et al., 2015	[110]	3
Silva et al., 2013	[111]	1
Strasburg et al., 2023	[112]	1
Strotmann et al., 2022	[113]	1
*Syauqiyatullah et al., 2020	[114]	4
Tanuwijaya et al., 2018	[115]	4
Tenser et al., 2007	[116]	1
Whitehair et al., 2013	[117]	1
*Wilkie et al., 2015	[118]	7
Yazdankhah et al., 2020	[119]	1

Legend – Exclusion criteria: 1 - Does not include data on intake (n= 47); 2 - No access, authors contacted without reply (n= 2); 3 - Not had % waste and number of meals and only food groups (n= 9); 4 - Texture or type of modified diet (n= 11); 5 - Not specific food service < free-living conditions > (n= 3); 6 - Outcome not measure (n= 2); 7 - School kitchen or brought from home without separation (n= 1); 8 - Systematic review (n=1)
 *Excluded studies for hand search..

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