



O'Brien, K. M., Timmons, A., Butow, P., Gooberman-Hill, R., O'Sullivan, E., Balfe, M., & Sharp, L. (2017). Associations between neighbourhood support and financial burden with unmet needs of head and neck cancer survivors. *Oral Oncology*, 65, 57-64.  
<https://doi.org/10.1016/j.oraloncology.2016.12.019>

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[10.1016/j.oraloncology.2016.12.019](https://doi.org/10.1016/j.oraloncology.2016.12.019)

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**Table 1: socio-demographic, clinical and social support characteristics of head and neck cancer survivors**

	No.	col %
total	583	100%
<i>socio-demographic</i>		
<b>sex</b>		
female	191	33%
male	392	67%
<b>marital status</b>		
married/living with partner	413	71%
not living with partner	165	28%
unknown	5	1%
<b>medical card</b>		
no	293	50%
yes	272	47%
unknown	18	3%
<b>private health insurance</b>		
no	309	53%
yes	246	42%
unknown	28	5%
<b>have children</b>		
no	136	23%
yes	427	73%
unknown	20	3%
<b>live alone</b>		
no	468	80%
yes	93	16%
unknown	22	4%
<b>education</b>		
primary school	190	33%
secondary school	254	44%
3rd/4th level	121	21%
unknown	18	3%
<b>employment</b>		
paid employment	285	49%
not paid employment	281	48%
unknown	17	3%
<b>urban/rural</b>		
high-urban	214	37%
intermediate-urban	146	25%
rural	223	38%
<b>age at survey</b>		
< 60 years	204	35%
60 – 69 years	217	37%
70+ years	160	27%
Unknown	2	<1%
<i>social support</i>		
<b>number of close friends</b>		
1 or 2	122	21%
3 to 5	206	35%
more than 5	237	41%
unknown	18	3%
<b>friendly interest from others</b>		
some/lot	450	77%
none/little/uncertain	123	21%
unknown	10	2%
<b>obtaining neighbour help</b>		
easy/very easy	362	62%
possible	153	26%
difficult	56	10%
unknown	12	2%
<i>financial burden</i>		
<b>financial stress at diagnosis</b>		
easy	372	64%
difficult	174	30%

unknown	37	6%
<b>financial stress due to cancer</b>		
same/less difficult	262	45%
more difficult	272	47%
unknown	49	8%
<b>financial strain due to cancer</b>		
same or less concerned	258	44%
more concerned	286	49%
unknown	39	7%
<i>clinical</i>		
<b>stage</b>		
early	279	48%
late	214	37%
unknown	90	15%
<b>head and neck cancer recurrence</b>		
no	516	89%
yes	34	6%
unknown	33	6%
<b>chemotherapy<sup>a</sup></b>		
no	453	78%
yes	130	22%
<b>radiotherapy<sup>a</sup></b>		
no	207	36%
yes	376	64%
<b>surgery<sup>a</sup></b>		
no	182	31%
yes	401	69%
<b>cancer type</b>		
mouth/salivary	276	47%
pharynx	109	19%
larynx	173	30%
unknown	25	4%
<b>time since diagnosis</b>		
Less than 5 years	289	50%
5 + years	291	50%
unknown	3	<1%

<sup>a</sup>Receipt of treatment within eight months of diagnosis.

**Table 2: Top ten unmet needs**

Domain	Item	Unmet needs	Percentage of total with unmet needs
physical and daily living	lack of energy/tiredness	119	20%
physical and daily living	not being able to do the things you used to do	119	20%
psychological	fears about cancer spreading	113	19%
psychological	feeling down or depressed	111	19%
psychological	uncertainty about future	110	19%
psychological	concern about the worries of those close to you	103	18%
psychological	anxiety	97	17%
psychological	feelings of sadness	97	17%
psychological	worry that the results of treatment are beyond your control	78	13%
physical and daily living	pain	71	12%

**Table 3: Chi-squared tests, testing association between unmet needs in the five domains and demographic and clinical variables.**

	No.	physical and daily		psychological		sexuality		care and support		health system information	
		No.	% with 1+ unmet needs	No.	% with 1+ unmet needs	No.	% with 1+ unmet needs	No.	% with 1+ unmet needs	No.	% with 1+ unmet needs
total	583	184	32%	193	33%	83	14%	82	14%	125	21%
<b>sex</b>		<b>b</b>									
female	191	<b>74</b>	<b>40%</b>	71	39%	25	15%	29	17%	48	27%
male	392	<b>110</b>	<b>30%</b>	122	34%	58	16%	53	15%	77	21%
<b>marital status</b>											
married/living with partner	413	126	31%	131	32%	64	16%	59	14%	83	20%
not living with partner	165	57	35%	61	37%	18	11%	23	14%	42	26%
unknown	5										
<b>medical card</b>								<b>b</b>			
no	293	89	30%	91	31%	44	15%	<b>33</b>	<b>11%</b>	56	19%
yes	272	90	33%	95	35%	36	13%	<b>47</b>	<b>17%</b>	66	24%
unknown	18										
<b>private health insurance</b>		<b>b</b>		<b>b</b>							
no	309	<b>108</b>	<b>35%</b>	<b>117</b>	<b>38%</b>	50	16%	47	15%	72	23%
yes	246	<b>66</b>	<b>27%</b>	<b>66</b>	<b>27%</b>	28	11%	30	12%	47	19%
unknown	28										
<b>have children</b>											
no	136	40	29%	39	29%	17	13%	13	10%	29	21%
yes	427	139	33%	150	35%	64	15%	66	16%	94	22%
unknown	20										
<b>live alone</b>				<b>b</b>						<b>b</b>	
no	468	142	30%	<b>147</b>	<b>31%</b>	68	15%	64	14%	<b>96</b>	<b>21%</b>
yes	93	36	39%	<b>41</b>	<b>44%</b>	12	13%	15	16%	<b>27</b>	<b>29%</b>
unknown	22										
<b>education</b>											
primary school	190	54	28%	60	32%	26	14%	27	14%	40	21%
secondary school	254	90	35%	92	36%	36	14%	40	16%	55	22%
3rd/4th level	121	34	28%	35	29%	15	12%	11	9%	26	22%
unknown	18										
<b>employment</b>											
paid employment	285	87	31%	92	32%	42	15%	38	13%	57	20%
not paid employment	281	96	34%	99	35%	40	14%	43	15%	66	24%
unknown	17										
<b>area of residence</b>											
high-urban	214	68	32%	72	34%	32	15%	28	13%	45	21%
intermediate-urban	146	50	34%	51	35%	20	14%	24	16%	33	23%
rural	223	66	30%	70	31%	31	14%	30	14%	47	21%
<b>age at survey</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>	
<60 years	204	<b>84</b>	<b>41%</b>	<b>85</b>	<b>42%</b>	<b>35</b>	<b>17%</b>	<b>31</b>	<b>15%</b>	<b>57</b>	<b>28%</b>
60 – 69 years	217	<b>60</b>	<b>28%</b>	<b>75</b>	<b>35%</b>	<b>40</b>	<b>18%</b>	<b>37</b>	<b>17%</b>	<b>45</b>	<b>21%</b>
70+ years	160	<b>39</b>	<b>24%</b>	<b>31</b>	<b>20%</b>	<b>7</b>	<b>4%</b>	<b>13</b>	<b>8%</b>	<b>21</b>	<b>13%</b>
unknown	2										
<b>number of close friends</b>		<b>b</b>								<b>b</b>	
1 or 2	122	<b>46</b>	<b>38%</b>	45	37%	19	16%	21	17%	<b>33</b>	<b>27%</b>
3 to 5	206	<b>71</b>	<b>35%</b>	76	37%	32	16%	32	16%	<b>51</b>	<b>25%</b>
more than 5	237	<b>61</b>	<b>26%</b>	67	28%	30	13%	28	12%	<b>36</b>	<b>15%</b>
unknown	18										
<b>friendly interest from others</b>								<b>b</b>		<b>b</b>	
some/lot	450	135	30%	144	32%	60	13%	<b>55</b>	<b>12%</b>	<b>85</b>	<b>19%</b>
none/little/uncertain	123	46	37%	46	37%	21	17%	<b>26</b>	<b>21%</b>	<b>38</b>	<b>31%</b>
unknown	10	3	30%	3	30%	2		<b>1</b>		<b>2</b>	
<b>obtaining neighbour help</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>	
easy/very easy	362	<b>92</b>	<b>25%</b>	<b>100</b>	<b>28%</b>	<b>41</b>	<b>11%</b>	<b>38</b>	<b>11%</b>	<b>53</b>	<b>15%</b>
possible	153	<b>62</b>	<b>41%</b>	<b>60</b>	<b>39%</b>	<b>27</b>	<b>18%</b>	<b>28</b>	<b>18%</b>	<b>47</b>	<b>31%</b>
difficult	56	<b>29</b>	<b>52%</b>	<b>32</b>	<b>57%</b>	<b>15</b>	<b>27%</b>	<b>16</b>	<b>29%</b>	<b>23</b>	<b>41%</b>

unknown	12										
<b>financial stress at diagnosis</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>	
easy	372	<b>94</b>	<b>25%</b>	<b>99</b>	<b>27%</b>	<b>37</b>	<b>10%</b>	<b>43</b>	<b>12%</b>	<b>59</b>	<b>16%</b>
difficult	174	<b>83</b>	<b>48%</b>	<b>84</b>	<b>48%</b>	<b>42</b>	<b>24%</b>	<b>33</b>	<b>19%</b>	<b>58</b>	<b>33%</b>
unknown	37										
<b>financial stress due to cancer</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>	
same/less difficult	262	<b>50</b>	<b>19%</b>	<b>57</b>	<b>22%</b>	<b>15</b>	<b>6%</b>	<b>24</b>	<b>9%</b>	<b>27</b>	<b>10%</b>
more difficult	272	<b>126</b>	<b>46%</b>	<b>128</b>	<b>47%</b>	<b>64</b>	<b>24%</b>	<b>54</b>	<b>20%</b>	<b>92</b>	<b>34%</b>
unknown	49										
<b>financial strain due to cancer</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>		<b>b</b>	
same or less concerned	258	<b>45</b>	<b>17%</b>	<b>43</b>	<b>17%</b>	<b>14</b>	<b>5%</b>	<b>17</b>	<b>7%</b>	<b>24</b>	<b>9%</b>
more concerned	286	<b>133</b>	<b>47%</b>	<b>144</b>	<b>50%</b>	<b>66</b>	<b>23%</b>	<b>61</b>	<b>21%</b>	<b>97</b>	<b>34%</b>
unknown	39										
<b>stage</b>		<b>b</b>									
early	279	<b>76</b>	<b>27%</b>	91	33%	35	13%	38	14%	59	21%
late	214	<b>78</b>	<b>36%</b>	75	35%	39	18%	29	14%	46	22%
unknown	90	<b>30</b>	<b>33%</b>	27	30%	9	10%	15	17%	20	22%
<b>head and neck cancer recurrence</b>											
no	516	153	30%	164	32%	74	14%	72	14%	104	20%
yes	34	21	62%	16	47%	5	15%	5	15%	12	35%
unknown	33	10	30%	13	39%	4	12%	5	15%	9	
<b>chemotherapy<sup>a</sup></b>		<b>b</b>		<b>b</b>				<b>b</b>			
no	453	<b>122</b>	<b>27%</b>	<b>135</b>	<b>30%</b>	57	13%	<b>56</b>	<b>12%</b>	90	20%
yes	130	<b>62</b>	<b>48%</b>	<b>58</b>	<b>45%</b>	26	20%	<b>26</b>	<b>20%</b>	35	27%
<b>radiotherapy<sup>a</sup></b>		<b>b</b>									
no	207	<b>45</b>	<b>22%</b>	61	30%	23	11%	26	13%	38	18%
yes	376	<b>139</b>	<b>37%</b>	132	35%	60	16%	56	15%	87	23%
<b>surgery<sup>a</sup></b>											
no	182	61	34%	62	34%	27	15%	30	17%	42	23%
yes	401	123	31%	131	33%	56	14%	52	13%	83	21%
<b>cancer type</b>		<b>b</b>									
mouth/salivary	276	<b>80</b>	<b>29%</b>	82	30%	33	12%	31	11%	54	20%
pharynx	109	<b>48</b>	<b>44%</b>	45	41%	20	18%	21	19%	26	24%
larynx	173	<b>48</b>	<b>28%</b>	57	33%	26	15%	24	14%	37	21%
unknown	25										
<b>time since diagnosis</b>				<b>b</b>						<b>b</b>	
<5 years	289	97	34%	<b>111</b>	<b>38%</b>	47	16%	43	14%	<b>75</b>	<b>26%</b>
5+ years	291	87	30%	<b>80</b>	<b>27%</b>	36	12%	38	13%	<b>48</b>	<b>16%</b>
	3										

<sup>a</sup>Receipt of treatment within eight months of diagnosis.

<sup>b</sup>Chi-squared test of association between variables is significant at the 5% level.

**Table 4: Multiple logistic regression to examine the association between social support and financial burden and the outcomes - unmet needs in each of the five domains, adjusting for socio-demographic and clinical factors.**

	physical			psychological			sexual			care support			health system information							
	RR <sup>a</sup>	p-value	95% CI		RR	p-value	95% CI		RR	p-value	95% CI		RR	p-value	95% CI					
<b>practical help from neighbour</b>																				
easy	ref				ref				ref				ref							
possible	1.50	0.001	1.17	1.91	1.3	0.017	0.95	1.6	1.51	0.97	2.36	1.64	0.029	1.05	2.57	1.83	< 0.0001	1.31	2.57	
difficult	1.59	0.004	1.15	2.19	1.7	< 0.0001	1.27	2	2.02	1.24	3.29	2.21	0.001	1.35	3.59	2.30	< 0.0001	1.55	3.42	
<b>post diagnosis financial strain</b>																				
same/less concerned	ref				ref				ref			ref				ref				
more concerned	2.07	< 0.001	1.51	2.84	1.95 <sup>b</sup>	< 0.0001	2.09	3.76	3.45	< 0.0001	1.95	6.14	2.87	< 0.0001	1.73	4.75	2.01	0.023	1.10	3.67
					1.79 <sup>c</sup>	0.021														
<b>pre-diagnosis financial stress</b>																				
easy	ref				-				-			-								
difficult	1.32	0.016	1.05	1.67	-				-			-								
<b>post-diagnosis financial stress</b>																				
less difficult																ref				
more difficult																1.95	0.022	1.10	3.45	
<b>head and neck cancer recurrence</b>																				
no	ref				-				-			-				ref				
yes	2.23	< 0.001	1.66	2.99	-				-			-				1.62	0.027	1.07	2.50	
<b>chemotherapy</b>																				
no	ref				-				-			-				-				
yes	1.34	0.021	1.04	1.73	-				-			-				-				
<b>radiotherapy</b>																				
no	ref				-				-			-				-				
yes	1.57	0.006	1.14	2.15	-				-			-				-				
<b>time since diagnosis</b>																				
<5 years					ref											ref				
5+ years					0.44	0.006	0.24	0.79								0.69	0.022	0.50	0.95	
<b>age at survey</b>																				
<60 years									ref											
60-69 years									1.31	0.87	1.94									
70+ years									0.37	0.16	0.88									
<b>medical card</b>																				
no	-				-				-			ref				-				
yes	-				-				-			1.52	0.037	1.03	2.27	-				
<b>sex</b>																				
male	ref				-				-			-				-				
female	1.41	0.003	1.13	1.77	-				-			-				-				

<sup>a</sup>RR: relative risk, <sup>b</sup>risk of unmet needs at < 5 years from diagnosis,

<sup>c</sup>risk of psychological unmet needs at 5+ years from diagnosis.