

Appendix 1. Clinical and Demographic Characteristics by the cohorts of hysterectomy approach										
Characteristics	Unadjusted Results					IPTW Results				
	MIS Hysterectomy (N=20405)		Open Hysterectomy (N=14291)		Significance Test MIS vs OH	MIS Hysterectomy (N=16659)		Open Hysterectomy (N=16624)		Significance Test MIS vs OH
	No.	(%)	No.	(%)		No.	(%)	No.	(%)	
NHS Year of surgery										
2011/12	1,127	6%	1,671	12%		1,305	8%	1,306	8%	
2012/13	2,471	12%	2,829	20%		2,566	15%	2,561	15%	
2013/14	2,971	15%	2,614	18%		2,677	16%	2,676	16%	
2014/15	3,387	17%	2,361	17%		2,772	17%	2,782	17%	
2015/16	3,500	17%	1,948	14%		2,635	16%	2,623	16%	
2016/17	4,060	20%	1,852	13%		2,846	17%	2,848	17%	
2017/18*	2,889	14%	1,016	7%	<0.001	1,858	11%	1,828	11%	0.812
Age, years										
<50	1,153	6%	1,082	8%		1,052	6%	1,056	6%	
50-59	4,317	21%	3,098	22%		3,568	21%	3,583	22%	
60-69	7,111	35%	4,672	33%		5,683	34%	5,664	34%	
70-79	5,693	28%	3,779	26%		4,541	27%	4,527	27%	
80-89	2,020	10%	1,540	11%		1,702	10%	1,682	10%	
90>	111	1%	120	1%	<0.001	113	1%	111	1%	0.765
Ethnicity										
White	16453	81%	11117	78%		13,272	80%	13,222	80%	
Asian	649	3%	499	3%		539	3%	544	3%	
Black	251	1%	365	3%		289	2%	285	2%	
Other	3052	15%	2310	16%	<0.001	2,559	15%	2,573	15%	0.785
Socio-Economic Group (IMD)										
High	5,149	25%	3,291	23%		4,194	25%	4,201	25%	
Intermediate	5,015	25%	3,387	24%		4,142	25%	4,124	25%	
Low	4,924	24%	3,489	24%		4,134	25%	4,109	25%	
Very Low	4,768	23%	3,703	26%	<0.001	4,188	25%	4,190	25%	0.962
Charlson Comorbidity Group										
0	23	0%	13	0%		16	0%	17	0%	
1	13,591	67%	8,405	59%		10,577	63%	10,550	63%	
2	5,429	27%	4,535	32%		4,767	29%	4,769	29%	
>=3	1,362	7%	1,338	9%	<0.001	1,299	8%	1,288	8%	0.966

Region										
GLondon	2,848	14%	2,184	15%		2,419	15%	2,421	15%	
Yorks	1,771	9%	1,220	9%		1,488	9%	1,512	9%	
WestMid	1,901	9%	1,672	12%		1,734	10%	1,739	10%	
SouthWest	2,751	13%	1,348	9%		1,981	12%	1,936	12%	
SouthEast	2,085	10%	1,451	10%		1,675	10%	1,645	10%	
NorthWest	2,909	14%	2,550	18%		2,624	16%	2,624	16%	
NorthEast	1,402	7%	432	3%		855	5%	860	5%	
Hcounties	1,126	6%	912	6%		968	6%	970	6%	
EastMid	1,650	8%	1,003	7%		1,289	8%	1,292	8%	
East	1,926	9%	1,497	10%		1,627	10%	1,625	10%	
Missing	36	0%	22	0%	<0.001	-	-	-	-	0.957
Provider Volume										
High	12,725	62%	8,703	61%		10,445	63%	10,456	63%	
Intermediate	7,140	35%	5,102	36%		5,937	36%	5,894	35%	
Low	288	1%	191	1%		232	1%	231	1%	
Very Low	36	0%	58	0%		46	0%	43	0%	
Missing	216	1%	237	2%	<0.001	-	-	-	-	0.712

*NHS Year 2017/18 not full year