



# Addressing Health Inequalities HFMA London, Finance Academy & SDN annual conference 2023



# **Our Vision**



A tool which supports our partner organisations in North East London to develop efficient patient pathways supporting Population Health Management For Costing/PLICS reporting to be a Trusted, central source of Financial Management information used across all sites and services within the Trust and by clinical, financial and operational staff alike.

As a reporting aid which supports clinicians to quantify the I benefits of delivering improvement (such as identified in GIRFT/Model Hospital)

A valuable trust tool to support the reduction of clinical variation, and improve the quality of patient care across the trust. Become 'Best in Class' by 2026 in delivering costing and benchmarking information in support the Trust's ambition to: be a high-performing group of NHS hospitals, renowned for excellence and innovation, and providing safe and compassionate care to our patients in East London and beyond. Implement SLR/PLICS reporting, embed throughout the Trust and move towards Service Line Management (SLM) to help the Trust understand areas for improvement and how to organise services in a way which benefits patients and delivers efficiencies for the trust.

An essential tool used for Board decision making, enabling the trust to optimise financial benefits and patient outcomes.

An effective performance management system which creates transparency and accountability around the delivery of the Trust's organisation's strategic objectives





# Reports





## Where is the Value

- "Cost defines the service" culture
  - Inequalities
  - Ethnicity
  - Deprivation
  - Clinical variation
  - Distance from care
  - Drivers of cost
  - Knowing your patients





Site	Q Numb of FC		Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals	310,9	69 £2,610	2.88	£2,300	£1,661	£520	3.1%	4.0%	1.0%	6.0mi
The Royal London Hospital	129,2	46 £2,687	2.72	£2,377	£1,483	£521	4.3%	4.4%	0.6%	6.3mi
St Bartholomews Hospital	70,5	53 £2,679	2.23	£1,691	£4,632	£526	0.5%	0.7%	0.2%	10.3mi
Whipps Cross University Hospital	67,6	22 £2,423	3.44	£2,505	£1,139	£523	3.4%	5.7%	0.4%	3.2mi
Newham University Hospital	43,5	48 £2,557	3.52	£2,740	£1,660	£502	3.5%	4.0%	0.3%	2.7mi





Diabetes	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Fit % of	Inpatient % of Population	Ave Distance to Home
Totals	310,969	£2,610	2.88	£2,300	£1,661	£520	3.1%	4.0%	1.0%	6.0mi
No	239,053	£2,540	2.69	£2,183	£1,659	£516	2.9%	3.5%	0.9%	6.4mi
Diabetes	71,916	£2,840	3.50	£2,688	£1,671	£535	3.7%	5.4%	0.3%	4.6mi





Q. Service Line	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals	71,916	£2,840	3.50	£2,688	£1,671	£535	3.7%	5.4%	0.3%	4.6mi
Acute Medicine	9,809	£1,694	3.38	£2,199	£1,385	£402	9.1%	4.2%	0.1%	2.8mi
Gastroenterology	7,970	£1,275	1.96	£1,961	£1,222	£172	2.1%	2.1%	0.1%	2.9mi
Medical Oncology	5,922	£418	1.25	£555	£695	£25	0.0%	0.6%	0.0%	5.9mi
Care of the Elderly	5,860	£3,651	7.24	£5,063	£1,267	£639	4.7%	11.5%	0.0%	2.5mi
Renal & Transplantation	3,880	£2,262	3.08	£1,967	£993	£484	13.4%	6.2%	0.0%	5.4mi
Maternity	3,744	£3,105	3.94	£3,448	£1,201	£484	0.0%	0.0%	0.0%	2.3mi
Respiratory Medicine	3,025	£2,759	4.86	£3,507	£823	£336	1.3%	5.9%	0.0%	4.0mi
Haemato-Oncology	2,897	£1,727	2.14	£1,853	-	£226	0.2%	0.5%	0.0%	10.0mi
General Surgery	2,837	£3,563	4.52	£3,706	£1,717	£850	6.2%	3.0%	0.0%	3.8mi
Interventional Cardiology	2,793	£4,729	2.77	£2,364	£4,691	£908	1.9%	0.3%	0.0%	8.2mi



### Diabetes – Top 10 Ethnicity – Activity and Costs



Q, Ethnic Category	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals	71,916	£2,840	3.50	£2,688	£1,671	£535	3.7%	5.4%	0.3%	4.6mi
White - British	18,880	£3,274	4.01	£3,152	£1,851	£620	4.2%	6.9%	0.1%	6.3mi
Asian or Asian British - Bangladeshi	12,649	£2,407	3.04	£2,331	£1,677	£437	3.7%	3.5%	1.9%	2.4mi
White - Any other White background	5,476	£2,875	3.32	£2,499	£2,152	£566	2.8%	4.1%	0.2%	5.2mi
Asian or Asian British - Any other Asian backgroun	5,244	£2,554	3.15	£2,354	£1,527	£493	2.8%	3.5%	0.9%	4.3mi
Asian or Asian British - Indian	5,219	£2,896	3.44	£2,612	£1,690	£540	4.5%	4.0%	0.4%	4.3mi
Asian or Asian British - Pakistani	5,120	£2,553	3.11	£2,303	£1,321	£475	4.3%	2.5%	0.6%	3.5mi
Black or Black British - Caribbean	4,729	£2,503	3.77	£2,747	£1,394	£447	4.3%	7.2%	1.0%	3.5mi
Black or Black British - African	4,412	£2,489	3.16	£2,252	£1,530	£524	3.7%	5.5%	0.4%	3.9mi
Other Ethnic Groups - Any other ethnic group	2,904	£3,075	3.80	£3,140	£1,440	£555	2.9%	6.0%	0.4%	4.8mi
Not known	2,066	£4,139	3.63	£3,223	£1,736	£693	2.0%	9.0%	-	9.5mi





Q Ethnic Category	Ave Dist to Gambling	Ave Dist to Fast Food	Ave Dist to Pubs / Bars	Ave Dist to Tobacco	Ave Dist to GP	Ave Dist to Hospital	Ave Dist to Dentist	Ave Dist to Pharmacy	Ave Dist to Leisure Centre	Ave Dist to Blue Space	NDVI Passive Green	Annual mean Nitrogen Dioxide (µgm³)	Annual mean Particulate Matter (µgm³)	Annual mean Sulphur Dioxide (µgm³)	Health Domain Score	Green / Blue space Domain Score	Air Quality Domain Score	Retail Domain Score
Totals	1.1mi	0.8mi	1.0mi	1.9mi	1.1mi	1.2mi	1.1mi	0.9mi	1.7mi	2.0mi	0.31	27.77	19.46	2.26	-0.89	0.32	1.77	0.91
White - British	1.4mi	1.1mi	1.2mi	2.3mi	1.3mi	1.5mi	1.4mi	1.1mi	2.0mi	2.0mi	0.34	26.30	19.05	2.12	-0.69	0.16	1.59	0.74
Asian or Asian British - Bangladeshi	0.9mi	0.6mi	0.8mi	1.7mi	0.9mi	1.0mi	0.9mi	0.7mi	1.3mi	1.5mi	0.26	31.64	19.88	2.44	-1.06	0.35	2.03	1.08
White - Any other White background	1.1mi	0.8mi	1.0mi	2.0mi	1.1mi	1.3mi	1.1mi	0.9mi	1.7mi	2.0mi	0.31	27.38	19.42	2.21	-0.85	0.28	1.73	0.85
Asian or Asian British - Any other Asian backgroun	0.9mi	0.7mi	1.0mi	1.7mi	1.0mi	1.1mi	0.9mi	0.8mi	1.6mi	2.2mi	0.29	27.32	19.52	2.29	-0.96	0.44	1.80	0.96
Asian or Asian British - Indian	0.9mi	0.7mi	1.0mi	1.6mi	0.9mi	1.1mi	0.9mi	0.8mi	1.7mi	2.3mi	0.29	26.61	19.68	2.31	-1.00	0.48	1.80	0.98
Asian or Asian British - Pakistani	0.8mi	0.7mi	0.9mi	1.5mi	0.8mi	1.1mi	0.9mi	0.7mi	1.4mi	2.4mi	0.30	26.85	19.73	2.34	-1.08	0.47	1.82	1.03
Black or Black British - Caribbean	0.9mi	0.7mi	0.9mi	1.7mi	0.9mi	1.1mi	1.1mi	0.8mi	1.5mi	2.2mi	0.30	27.69	19.75	2.30	-0.94	0.40	1.82	0.97
Black or Black British - African	0.9mi	0.7mi	1.0mi	2.0mi	1.0mi	1.1mi	1.1mi	0.8mi	1.6mi	1.9mi	0.29	28.01	19.65	2.32	-0.93	0.36	1.83	0.92
Other Ethnic Groups - Any other ethnic group	1.0mi	0.8mi	1.0mi	2.1mi	1.1mi	1.1mi	1.1mi	0.9mi	1.7mi	2.0mi	0.31	27.44	19.28	2.19	-0.88	0.30	1.72	0.87
Not known	1.5mi	1.1mi	1.3mi	2.7mi	1.3mi	1.4mi	1.3mi	1.1mi	2.2mi	2.2mi	0.33	24.62	18.61	2.04	-0.70	0.27	1.48	0.69





Age Range	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals	18,880	£3,274	4.01	£3,152	£1,851	£620	4.2%	6.9%	0.1%	6.3mi
70 to 79	5,853	£3,349	4.07	£3,333	£2,087	£643	3.8%	7.7%	0.0%	5.3mi
60 to 69	4,414	£3,068	3.28	£2,655	£2,091	£615	3.1%	4.5%	0.0%	8.0mi
80 to 89	3,751	£3,218	5.09	£3,505	£1,412	£571	5.5%	9.2%	0.0%	4.1mi
50 to 59	2,380	£3,575	3.34	£3,419	£1,984	£700	4.2%	4.5%	0.0%	8.0mi
90 to 99	829	£3,017	6.06	£3,700	£1,094	£636	5.3%	11.5%	0.0%	3.0mi
40 to 49	762	£2,077	2.71	£2,011	£1,254	£409	2.1%	0.9%	0.0%	11.4mi
30 to 39	558	£2,906	3.13	£2,374	£1,218	£496	6.5%	0.9%	0.0%	6.2mi
20 to 29	203	£3,435	4.06	£2,089	£1,814	£682	7.4%	0.0%	0.0%	10.7mi
10 to 19	103	£14,188	3.93	£4,275	£1,082	£849	7.8%	0.0%	0.1%	17.9mi
0 to 9	18	£9,366	6.72	£8,337	-	£3,131	0.0%	0.0%	0.2%	2.3mi
-	6	£8,077	16.17	£9,239	£2,245	£1,999	0.0%	19.6%	0.2%	1.6mi
100 and over	3	£4,832	9.33	£4,225	£892	£677	0.0%	10.7%	0.2%	2.7mi



# Deprivation decile – White British – Activity and Costs



Deprivation Decile	Q	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals		18,880	£3,274	4.01	£3,152	£1,851	£620	4.2%	6.9%	0.1%	6.3mi
3		4,566	£2,980	4.19	£3,248	£1,743	£546	4.6%	7.7%	0.7%	4.2mi
2		3,513	£2,896	4.02	£3,014	£1,605	£520	4.6%	7.8%	0.8%	4.2mi
4		2,811	£3,110	3.79	£2,928	£1,710	£596	3.6%	6.0%	0.5%	5.7mi
5		1,541	£3,964	3.58	£4,061	£1,799	£752	4.3%	5.8%	0.3%	7.0mi
6		1,369	£3,669	4.15	£3,170	£1,904	£740	4.5%	7.0%	0.4%	6.7mi
7		1,145	£3,295	3.99	£2,998	£2,194	£686	3.1%	6.1%	0.3%	7.1mi
8		1,028	£3,618	4.02	£2,647	£2,342	£740	4.6%	6.5%	0.3%	9.2mi
9		879	£4,277	4.15	£3,273	£2,283	£786	3.8%	5.5%	0.2%	13.8mi
-		850	£3,071	3.80	£3,117	£1,735	£540	4.1%	7.5%	0.0%	8.0mi
10		677	£3,855	4.01	£2,947	£2,445	£808	1.9%	6.5%	0.2%	12.2mi
1		501	£3,381	4.50	£3,191	£1,456	£584	4.4%	5.9%	0.4%	8.7mi



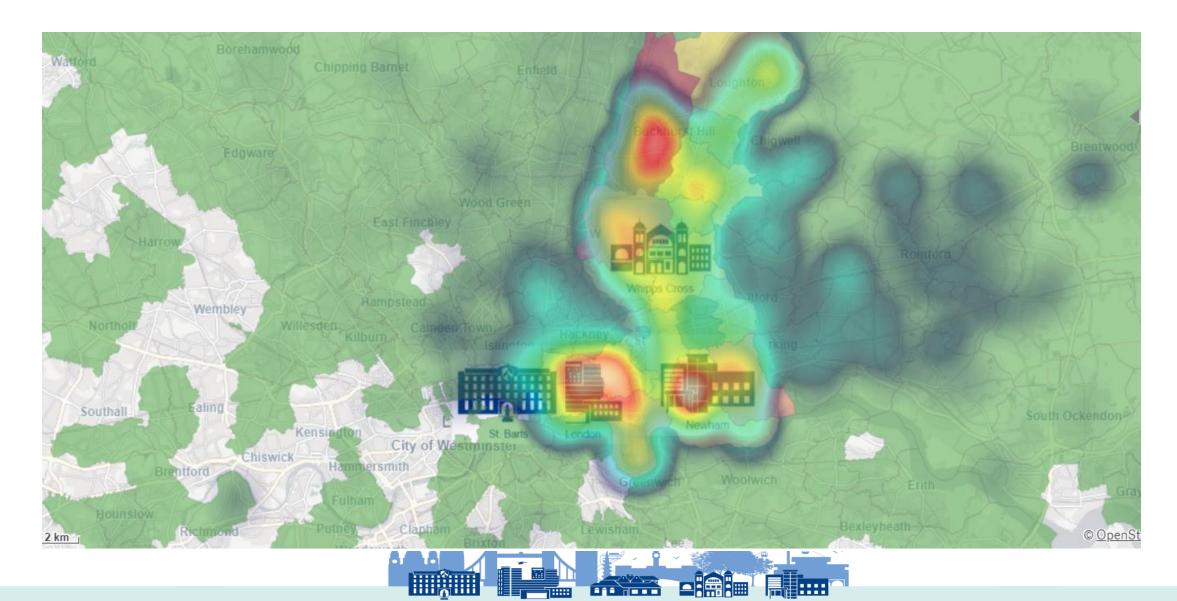
#### Deprivation decile – White British – Population Statistics **Barts Health**

**NHS Trust** 

Deprivation Decile	٩	Ave Dist to Gambling	Ave Dist to Fast Food	Ave Dist to Pubs / Bars	Ave Dist to Tobacco	Ave Dist to GP	Ave Dist to Hospital	Ave Dist to Dentist	Ave Dist to Pharmacy	Ave Dist to Leisure Centre	Ave Dist to Blue Space	NDVI Passive Green Space Value	Annual mean Nitrogen Dioxide (µgm³)	Annual mean Particulate Matter (µgm³)	Annual mean Sulphur Dioxide (µgm³)	Health Domain Score	Green / Blue space Domain Score	Air Quality Domain Score	Retail Domain Score
Totals		1.4mi	1.1mi	1.2mi	2.3mi	1.3mi	1.5mi	1.4mi	1.1mi	2.0mi	2.0mi	0.34	26.30	19.05	2.12	-0.69	0.16	1.59	0.74
1		1.3mi	1.0mi	1.3mi	2.7mi	0.9mi	1.1mi	1.3mi	0.9mi	1.8mi	2.0mi	0.33	27.73	19.30	2.20	-0.87	0.24	1.68	0.55
2		1.0mi	0.8mi	1.0mi	2.0mi	0.9mi	1.1mi	1.1mi	0.8mi	1.5mi	1.7mi	0.30	29.57	19.79	2.34	-0.94	0.26	1.89	0.92
3		1.1mi	0.9mi	1.0mi	1.9mi	1.1mi	1.3mi	1.3mi	0.9mi	1.8mi	2.0mi	0.31	28.39	19.75	2.30	-0.85	0.31	1.83	0.96
4		1.1mi	0.9mi	0.9mi	2.1mi	1.3mi	1.3mi	1.2mi	1.1mi	1.7mi	2.0mi	0.35	26.53	19.23	2.14	-0.72	0.15	1.61	0.83
5		1.5mi	1.2mi	1.4mi	2.4mi	1.5mi	1.5mi	1.4mi	1.1mi	2.0mi	2.2mi	0.34	25.63	19.07	2.08	-0.64	0.22	1.53	0.68
6		1.6mi	1.2mi	1.4mi	2.4mi	1.3mi	1.8mi	1.4mi	1.3mi	2.1mi	2.0mi	0.38	24.55	18.83	2.02	-0.55	-0.03	1.43	0.58
7		2.2mi	1.8mi	1.7mi	3.4mi	1.9mi	2.3mi	1.9mi	1.8mi	2.7mi	1.8mi	0.39	23.89	18.47	1.95	-0.31	-0.05	1.34	0.35
8		2.3mi	1.7mi	1.6mi	3.2mi	2.2mi	2.2mi	1.9mi	1.9mi	3.2mi	2.2mi	0.43	22.08	18.13	1.76	-0.22	-0.16	1.14	0.40
9		2.6mi	2.3mi	1.7mi	3.6mi	1.8mi	2.2mi	1.8mi	1.5mi	3.1mi	2.9mi	0.43	20.54	17.64	1.64	-0.36	0.04	0.95	0.34
10		2.3mi	1.7mi	1.3mi	3.1mi	1.8mi	2.1mi	1.6mi	1.4mi	2.5mi	2.6mi	0.46	20.43	17.41	1.64	-0.33	-0.10	0.93	0.38
-		0.3mi	0.3mi	0.2mi	0.3mi	0.1mi	0.3mi	0.1mi	0.1mi	0.4mi	0.1mi	0.02	0.19	0.28	0.02	0.01	-0.01	-0.04	-0.02









Age Range	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals	12,649	£2,407	3.04	£2,331	£1,677	£437	3.7%	3.5%	1.9%	2.4mi
60 to 69	3,152	£2,286	2.82	£2,029	£2,103	£409	4.2%	3.6%	0.5%	2.7mi
50 to 59	2,027	£2,424	2.71	£2,148	£1,493	£485	3.4%	3.2%	0.4%	2.7mi
30 to 39	1,625	£2,221	3.04	£2,414	£902	£398	1.2%	0.4%	0.4%	2.1mi
40 to 49	1,582	£2,523	2.43	£1,830	£3,795	£409	3.1%	1.4%	0.3%	2.9mi
80 to 89	1,558	£2,256	3.80	£2,903	£1,015	£375	5.5%	8.0%	0.2%	1.8mi
70 to 79	1,552	£2,387	3.33	£2,496	£1,299	£460	5.2%	4.4%	0.3%	2.3mi
20 to 29	760	£2,554	3.48	£2,804	£931	£451	0.9%	0.0%	0.2%	2.0mi
90 to 99	213	£2,418	4.31	£3,537	£1,316	£388	8.5%	8.9%	0.2%	2.3mi
10 to 19	154	£5,417	3.52	£2,814	£1,304	£1,033	3.2%	0.4%	0.2%	1.5mi
0 to 9	24	£8,570	5.50	£7,875	£619	£3,061	12.5%	0.0%	0.2%	1.8mi
100 and over	2	£4,586	6.50	£8,154	-	£584	0.0%	0.0%	0.1%	0.3mi



### Deprivation Decile – Bengali community – Activity and Costs



Deprivation Decile	Q	Number of FCEs	Ave Episode Cost (£)	Average Length of Stay	Ward Cost per Episode	Theatre Cost per Episode	Medical Cost per Episode	FCE to Re- admiss	Medica Fit % of LoS	Inpatient % of Population	Ave Distance to Home
Totals		12,649	£2,407	3.04	£2,331	£1,677	£437	3.7%	3.5%	1.9%	2.4mi
2		4,314	£2,564	3.11	£2,405	£2,205	£449	4.4%	3.7%	3.4%	2.0mi
3		4,244	£2,161	2.94	£2,195	£1,204	£413	3.5%	3.6%	3.6%	2.0mi
4		1,806	£2,451	2.98	£2,297	£2,087	£363	3.2%	2.9%	3.1%	2.4mi
-		841	£2,583	3.28	£2,582	£1,204	£575	1.9%	4.7%	0.3%	1.8mi
5		443	£2,578	3.17	£2,553	£1,325	£500	3.8%	3.7%	1.7%	4.6mi
6		383	£2,234	2.59	£2,078	£1,033	£427	3.1%	1.9%	1.7%	7.0mi
7		160	£1,965	2.66	£1,708	£810	£332	0.6%	1.6%	1.8%	4.8mi
1		157	£2,231	2.71	£2,004	£1,881	£512	5.1%	3.3%	3.2%	4.1mi
8		156	£3,715	4.49	£3,463	£2,183	£675	8.3%	3.4%	2.0%	3.3mi
9		123	£2,426	3.48	£2,762	£987	£449	4.1%	1.4%	2.2%	4.4mi
10		22	£3,173	4.59	£3,797	£889	£537	4.5%	6.9%	3.9%	3.2mi



### Deprivation Decile – Bengali community – Population Statistics

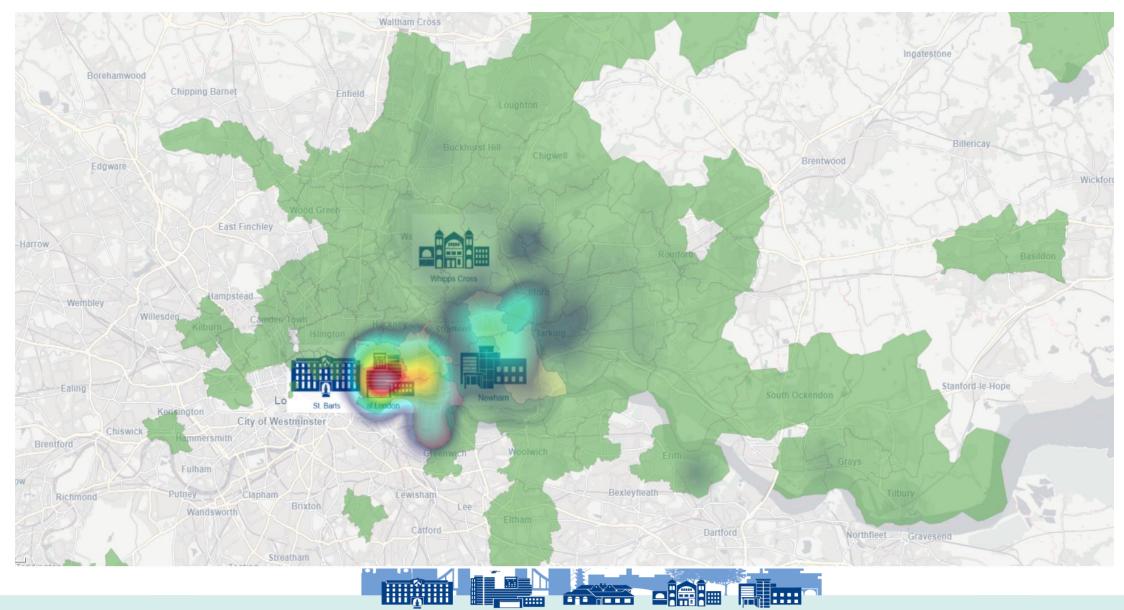


Deprivation Decile	Q	Ave Dist to Gambling	Ave Dist to Fast Food	Ave Dist to Pubs / Bars	Ave Dist to Tobacco	Ave Dist to GP	Ave Dist to Hospital	Ave Dist to Dentist	Ave Dist to Pharmacy	Ave Dist to Leisure Centre	Ave Dist to Blue Space	NDVI Passive Green Space Value	Annual mean Nitrogen Dioxide (µgm³)	Annual mean Particulate Matter (µgm³)	Annual mean Sulphur Dioxide (µgm³)	Health Domain Score	Green / Blue space Domain Score	Air Quality Domain Score	Retail Domain Score
Totals		0.9mi	0.6mi	0.8mi	1.7mi	0.9mi	1.0mi	0.9mi	0.7mi	1.3mi	1.5mi	0.26	31.64	19.88	2.44	-1.06	0.35	2.03	1.08
1		1.0mi	0.7mi	0.9mi	1.6mi	0.6mi	0.9mi	0.9mi	0.7mi	1.3mi	1.6mi	0.27	33.28	19.93	2.45	-1.19	0.34	2.04	0.98
2		0.8mi	0.6mi	0.7mi	1.7mi	0.8mi	1.0mi	0.9mi	0.7mi	1.2mi	1.4mi	0.25	33.18	20.17	2.50	-1.15	0.34	2.11	1.12
3		0.8mi	0.6mi	0.7mi	1.4mi	0.8mi	0.9mi	1.0mi	0.7mi	1.3mi	1.7mi	0.26	31.91	20.26	2.50	-1.15	0.42	2.09	1.20
4		0.9mi	0.6mi	0.8mi	1.7mi	1.0mi	1.1mi	0.8mi	0.8mi	1.3mi	1.6mi	0.26	31.37	20.01	2.46	-1.04	0.36	2.02	1.10
5		1.1mi	0.9mi	0.9mi	2.1mi	1.3mi	1.2mi	1.1mi	0.9mi	1.7mi	1.3mi	0.26	29.97	19.81	2.35	-0.76	0.22	1.91	0.84
6		1.2mi	0.9mi	1.3mi	2.6mi	1.2mi	1.5mi	1.1mi	1.1mi	2.2mi	1.2mi	0.28	26.56	18.93	2.17	-0.67	0.10	1.58	0.59
7		1.0mi	0.7mi	0.7mi	2.4mi	1.3mi	1.4mi	1.0mi	0.9mi	1.7mi	1.4mi	0.21	30.88	19.37	2.38	-0.97	0.51	1.85	1.12
8		1.7mi	1.2mi	0.7mi	2.7mi	1.5mi	1.9mi	1.0mi	1.6mi	1.6mi	0.8mi	0.24	32.60	19.62	2.36	-0.51	-0.09	1.93	0.57
9		1.7mi	1.1mi	1.0mi	2.5mi	1.2mi	1.7mi	1.0mi	1.4mi	1.7mi	1.9mi	0.36	30.00	19.45	2.27	-0.60	0.11	1.75	0.50
10		1.4mi	0.8mi	0.7mi	3.0mi	1.9mi	2.4mi	1.2mi	1.3mi	2.0mi	1.4mi	0.32	25.69	18.69	1.96	-0.26	0.07	1.43	0.69
-		0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.0mi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



### Diabetes – Asian - Map







# **Key Messages**

- Done with clinicians in mind
- Clinical service drives the cost
- Equality pivotal
- Changing culture





## Thank you

- For listening
- To all our clinicians
- To the Costing Clinical committee
- Hardev Virdee Group CFO
- To our patients

