

## Online Supplementary Document

Adeloye et al. Global and regional estimates of COPD prevalence: Systematic review and meta-analysis

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**Supplementary Table 1. Search terms (MEDLINE)**

#	Searches
1	exp vital statistics/ or exp incidence/
2	(incidence* or prevalence* or morbidity or mortality).tw.
3	(disease adj3 burden).tw.
4	exp "cost of illness"/
5	exp quality-adjusted life years/
6	QALY.tw.
7	Disability adjusted life years.mp.
8	(initial adj2 burden).tw.
9	exp risk factors/
10	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
11	exp Emphysema/
12	copd.mp.
13	exp bronchitis, chronic/ or exp pulmonary disease, chronic obstructive/ or exp pulmonary emphysema/
14	chronic obstructive airway disease.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]
15	coad.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]
16	11 or 12 or 13 or 14 or 15
17	10 and 16
18	limit 17 to yr="1990 -Current"

## Supplementary Table 2. Search Terms (EMBASE)

#	Searches
1	exp vital statistics/ or exp incidence/
2	(incidence* or prevalence* or morbidity or mortality).tw.
3	(disease adj3 burden).tw.
4	exp "cost of illness"/
5	exp quality-adjusted life years/
6	QALY.tw.
7	Disability adjusted life years.mp.
8	(initial adj2 burden).tw.
9	exp risk factors/
10	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
11	exp Emphysema/
12	copd.mp.
13	coad.mp. [mp=abstract, title, original title, broad terms, heading words]
14	chronic bronchitis.mp. [mp=abstract, title, original title, broad terms, heading words]
15	exp chronic obstructive pulmonary disease/
16	11 or 12 or 13 or 14 or 15
17	10 and 16
18	limit 21 to yr="1990 -Current"

### Supplementary Table 3. Search Terms (GLOBAL HEALTH)

#	Searches
1	exp vital statistics/ or exp incidence/
2	(incidence* or prevalence* or morbidity or mortality).tw.
3	(disease adj3 burden).tw.
4	exp "cost of illness"/
5	exp quality-adjusted life years/
6	QALY.tw.
7	Disability adjusted life years.mp.
8	(initial adj2 burden).tw.
9	exp risk factors/
10	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
11	exp Emphysema/
12	copd.mp.
13	coad.mp. [mp=abstract, title, original title, broad terms, heading words]
14	chronic bronchitis.mp. [mp=abstract, title, original title, broad terms, heading words]
15	exp chronic obstructive pulmonary disease/
16	11 or 12 or 13 or 14 or 15
17	10 and 16
18	limit 17 to yr="1990 -Current"

**Supplementary Table 4. Characteristics of retained COPD studies globally**

Study	Study period	Country	Income category	WHO region	Setting	Diagnosis criteria	Mean age	Sample size	COPD cases	Prevalence
Khelafi et al	2010	Algeria	LMIC	AFRO	Mixed	GOLD	47.5	1800	87	4.9
Martins et al	2006	Cape Verde	LMIC	AFRO	Mixed	GOLD	41.7	274	23	8.4
Fullerton et al	2001	Malawi	LMIC	AFRO	Mixed	GOLD	46	332	45	13.6
Gathuru et al	1999	Nigeria	LMIC	AFRO	Urban	LLN	47.6	270	25	9.3
Musafiri et al	2009	Rwanda	LMIC	AFRO	Mixed	ATS/ERS	38.3	1824	82	4.5
Buist et al	2005	South Africa	LMIC	AFRO	Urban	GOLD	53.6	847	202	23.8
Tan et al	2007	Canada	HIC	AMRO	Urban	GOLD/LLN	57	2916	487	11.6
Al-Hazmi et al	1994	Canada	HIC	AMRO	Urban	GOLD	32	2819	186	6.6
Tilert et al	2009	USA	HIC	AMRO	Urban	GOLD/LLN	59.5	5447	763	10.2
Methvin et al	2005	USA	HIC	AMRO	Urban	GOLD	57.1	508	100	19.6
Mannino et al	1991	USA	HIC	AMRO	Urban	GOLD	42.8	16084	1367	6.8
Ford et al	2010	USA	HIC	AMRO	Urban	GOLD	49.5	9024	1218	13.5
Vaz Fragoso et al	2000	USA	HIC	AMRO	Urban	GOLD	60	3502	947	27.0
Menezes et al	2001	Brazil	LMIC	AMRO	Urban	GOLD	51.2	191	29	15.2
Caballero et al	2004	Colombia	LMIC	AMRO	Urban	GOLD	55.8	5539	494	8.9
Laniado-Laborin et al	2008	Mexico	LMIC	AMRO	Urban	GOLD	58	2293	472	20.6
Menezes et al	2003	Brazil	LMIC	AMRO	Urban	GOLD	55.2	1000	158	15.8
Menezes et al	2003	Chile	HIC	AMRO	Urban	GOLD	57	1208	204	16.9
Menezes et al	2003	Mexico	LMIC	AMRO	Urban	GOLD	55.9	1063	83	7.8
Menezes et al	2003	Uruguay	HIC	AMRO	Urban	GOLD	60.3	943	186	19.7
Menezes et al	2003	Venezuela	LMIC	AMRO	Urban	GOLD	51.1	1357	164	12.1
Amra et al	2010	Iran	LMIC	EMRO	Mixed	ERS	53.5	420	71	16.9
Golshan et al	1998	Iran	LMIC	EMRO	Mixed	GOLD	51.95	4636	788	17.0
Golshan et al	2010	Iran	LMIC	EMRO	Mixed	GOLD	58	279	62	22.2
Waked et al	2010	Lebanon	LMIC	EMRO	Mixed	GOLD/LLN	57.1	2201	284	12.5
Daldoul et al	2012	Tunisia	LMIC	EMRO	Urban	GOLD	59.5	661	49	7.4
Al Zaabi et al	2010	UAE	HIC	EMRO	Urban	GOLD	52	520	19	3.7
Al Ghobain	2011	Saudi Arabia	HIC	EMRO	Urban	GOLD	52	501	71	14.2
Stav et al	2007	Israel	HIC	EURO	Mixed	GOLD	60	1058	233	22.0
Weiss et al	2007	Austria	HIC	EURO	Mixed	GOLD	58.5	775	58	16.6
Schirnhofner et al	2005	Austria	HIC	EURO	Urban	GOLD	59	1258	328	26.1
Maio et al	2009	Austria	HIC	EURO	Urban	GOLD	41.1	1526	311	20.4
Fabricius et al	2003	Denmark	HIC	EURO	Urban	GOLD	62.6	4908	853	17.4
Hansen et al	2005	Denmark	HIC	EURO	Mixed	GOLD	65.2	4535	541	11.9
Maio et al	2009	Denmark	HIC	EURO	Urban	GOLD	39.8	1037	263	25.4
Kainu et al	2002	Finland	HIC	EURO	Urban	GOLD/LLN	49.1	628	37	5.9
Kotaniemi et al	2004	Finland	HIC	EURO	Rural	GOLD	47.9	683	64	9.4
Isoaho et al	1991	Finland	HIC	EURO	Rural	FEV1/FVC $\leq$ 65%	73	1196	82	7.8
Kanervisto et al	2001	Finland	HIC	EURO	Mixed	GOLD	55	6525	338	5.2
Roche et al	2007	France	HIC	EURO	Urban	GOLD	62.8	4335	325	7.5
Geldmacher et al	2005	Germany	HIC	EURO	Mixed	GOLD	57.9	683	90	13.2

<b>Gingter et al</b>	2007	Germany	HIC	EURO	Urban	GOLD	59.5	432	40	9.3
<b>Schikowski et al*</b>	1994	Germany	HIC	EURO	Urban	GOLD	.	.	.	.
<b>Maio et al</b>	2009	Germany	HIC	EURO	Urban	GOLD	43	4576	841	18.4
<b>Sichletidis et al</b>	2001	Greece	HIC	EURO	Mixed	GOLD	52.3	6112	341	5.6
<b>Minas et al</b>	2008	Greece	HIC	EURO	Rural	GOLD	53.9	1526	281	18.4
<b>Benediktsdottir et al</b>	2004	Iceland	HIC	EURO	Urban	GOLD	57	755	136	18.0
<b>Viegi et al</b>	1990	Italy	HIC	EURO	Rural	GOLD	44.6	1727	261	15.1
<b>Vanfleteren et al</b>	2008	Netherlands	HIC	EURO	Urban	GOLD/LLN	59.5	592	140	18.7
<b>Van Durme et al</b>	2003	Netherlands	HIC	EURO	Urban	GOLD	69.5	7983	928	11.6
<b>Afonso et al</b>	2007	Netherlands	HIC	EURO	Mixed	GOLD	58.4	185325	7308	3.9
<b>Waatevik et al</b>	2004	Norway	HIC	EURO	Mixed	GOLD	54.7	1664	228	8.7
<b>Hvidsten et al</b>	1999	Norway	HIC	EURO	Mixed	GOLD	60.8	3305	303	9.2
<b>Buist et al</b>	2005	Norway	HIC	EURO	Urban	GOLD	58.5	658	124	18.8
<b>Bakke et al</b>	1990	Norway	HIC	EURO	Mixed	GOLD	42	1275	65	5.4
<b>Johannessen et al</b>	2003	Norway	HIC	EURO	Mixed	GOLD	46	869	40	4.6
<b>Bednarek et al</b>	2007	Poland	HIC	EURO	Mixed	LLN	56.7	1960	183	9.3
<b>Nizankowska-Mogilnicka et al</b>	2005	Poland	HIC	EURO	Mixed	GOLD	55.7	526	116	22.1
<b>Plywaczewski et al</b>	2001	Poland	HIC	EURO	Urban	GOLD	49.4	676	72	10.7
<b>Paprzycki et al</b>	2000	Poland	HIC	EURO	Rural	GOLD	49.6	643	73	11.0
<b>Siatkowska et al</b>	2009	Poland	HIC	EURO	Mixed	GOLD	58.7	1026	62	6.0
<b>Barbara et al</b>	2008	Portugal	HIC	EURO	Urban	GOLD	62.8	710	101	14.2
<b>Cardoso et al</b>	1995	Portugal	HIC	EURO	Mixed	GOLD	56.4	9061	815	9.0
<b>Cardoso et al</b>	2002	Portugal	HIC	EURO	Mixed	GOLD	48.6	1384	73	5.3
<b>Mascarenhas et al</b>	2001	Portugal	HIC	EURO	Urban	GOLD	58.5	758	81	10.7
<b>Grzetic-Romcevic et al</b>	2005	Slovenia	HIC	EURO	Urban	GOLD	56.5	770	79	10.3
<b>Miravittles et al</b>	2007	Spain	HIC	EURO	Mixed	GOLD	56.6	3802	386	10.2
<b>Peña et al</b>	1997	Spain	HIC	EURO	Mixed	ERS	53.9	3981	363	9.1
<b>Cabrera-Lopez et al</b>	2012	Spain	HIC	EURO	Urban	GOLD	55	1001	73	7.3
<b>Danielsson et al</b>	2007	Sweden	HIC	EURO	Urban	LLN	58.9	548	86	10.0
<b>Lindberg et al</b>	1996	Sweden	HIC	EURO	Rural	GOLD	61.5	1237	177	14.3
<b>Lindberg et al</b>	1994	Sweden	HIC	EURO	Rural	GOLD	49.1	666	94	14.1
<b>Lindberg et al</b>	1996	Sweden	HIC	EURO	Rural	GOLD	61.5	963	107	11.1
<b>Ekberg-Aronsson et al</b>	2002	Sweden	HIC	EURO	Mixed	GOLD	32	22044	3364	15.3
<b>Lindström et al</b>	1994	Sweden	HIC	EURO	Rural	BTS	50.5	1580	166	10.5
<b>Hasselgren et al</b>	1995	Sweden	HIC	EURO	Rural	BTS	45.4	206	4	2.1
<b>Larsson et al</b>	1991	Sweden	HIC	EURO	Mixed	ATS	49.5	1970	87	10.8
<b>Maio et al</b>	2009	Sweden	HIC	EURO	Urban	GOLD	40.5	2417	486	20.1
<b>Bridevaux et al</b>	2002	Switzerland	HIC	EURO	Mixed	GOLD	53.7	6126	307	5.0
<b>Arslan et al</b>	2012	Turkey	LMIC	EURO	Urban	GOLD	55.8	946	126	13.3
<b>Erdogan et al</b>	2012	Turkey	LMIC	EURO	Rural	GOLD	55	500	25	5.0

<b>Deveci et al</b>	2007	Turkey	LMIC	EURO	Mixed	GOLD	37.7	1188	53	4.5
<b>Gunen et al</b>	2007	Turkey	LMIC	EURO	Mixed	ATS/ERS	47.5	1160	80	6.9
<b>Buist et al</b>	2005	Turkey	LMIC	EURO	Mixed	GOLD	53.8	806	155	19.2
<b>Jordan et al</b>	1998	UK	HIC	EURO	Mixed	GOLD	58.1	18817	1684	9.0
<b>Melville et al</b>	2003	UK	HIC	EURO	Urban	GOLD	59	845	211	25.0
<b>Murtagh et al</b>	2000	UK	HIC	EURO	Mixed	BTS	55.5	722	49	6.8
<b>Dickinson et al</b>	1998	UK	HIC	EURO	Mixed	GOLD	68.4	353	35	9.9
<b>Renwick et al</b>	1993	UK	HIC	EURO	Mixed	GOLD	64.5	246	65	26.4
<b>Shahab et al</b>	2001	UK	HIC	EURO	Mixed	GOLD	56.5	8215	1093	13.3
<b>Maio et al</b>	2009	UK	HIC	EURO	Urban	GOLD	39.6	825	200	24.2
<b>de Marco et al</b>	1992	International	HIC	EURO	Mixed	GOLD	32	1942	70	3.6
<b>Zachariades et al</b>	2012	Cyprus	HIC	EURO	Mixed	GOLD	54.5	1233	60	4.9
<b>Islam et al</b>	2012	Bangladesh	LMIC	SEARO	Urban	GOLD	45.3	900	103	11.4
<b>Mosharraf-Hossain et al</b>	2009	Bangladesh	LMIC	SEARO	Urban	GOLD	53.7	400	50	12.5
<b>Maranetra et al</b>	1998	Thailand	LMIC	SEARO	Urban	GOLD	67.9	3094	220	7.1
<b>Parasuramalu et al</b>	2013	India	LMIC	SEARO	Rural	GOLD	50.8	1400	61	4.4
<b>Johnson et al*</b>	2007	India	LMIC	SEARO	Rural	GOLD	.	.	.	.
<b>Mahesh et al</b>	2009	India	LMIC	SEARO	Rural	GOLD	44.5	350	17	4.9
<b>Toelle et al</b>	2008	Australia	HIC	WPRO	Mixed	GOLD	58.9	3357	487	14.5
<b>Matheson et al</b>	2004	Australia	HIC	WPRO	Urban	GOLD	57.3	1213	42	3.5
<b>Shirtcliffe et al</b>	2004	New Zealand	HIC	WPRO	Urban	GOLD	50.1	749	116	15.5
<b>Buist et al</b>	2005	China	LMIC	WPRO	Urban	GOLD	54	473	54	11.4
<b>Liu et al</b>	2003	China	LMIC	WPRO	Mixed	GOLD	57	3286	310	9.4
<b>Zhong et al</b>	2003	China	LMIC	WPRO	Mixed	GOLD	56.7	20245	1668	8.2
<b>Qiu et al</b>	2012	China	LMIC	WPRO	Mixed	GOLD	56	4055	360	8.9
<b>Rong et al</b>	2009	China	LMIC	WPRO	Rural	GOLD	40.5	2568	100	3.9
<b>Li et al</b>	2008	China	LMIC	WPRO	Urban	GOLD	59.5	1518	194	12.8
<b>Gong et al</b>	2009	China	LMIC	WPRO	Urban	GOLD	70	710	104	14.6
<b>Ling et al</b>	2010	China	LMIC	WPRO	Rural	GOLD	49.5	3489	138	4.0
<b>Ma et al</b>	2012	China	LMIC	WPRO	Rural	GOLD	59.5	1554	173	11.1
<b>Zeng et al</b>	2009	China	LMIC	WPRO	Urban	GOLD	60.4	3687	354	9.6
<b>Li et al</b>	2011	China	LMIC	WPRO	Rural	GOLD	59.5	1384	136	9.8
<b>Liu et al</b>	2009	China	LMIC	WPRO	Rural	GOLD	65	5420	947	17.5
<b>Liu et al</b>	2007	China	LMIC	WPRO	Mixed	GOLD	54.5	3286	310	9.4
<b>Zhang et al</b>	2008	China	LMIC	WPRO	Rural	GOLD	59.5	2001	172	8.6
<b>Yu et al</b>	2008	China	LMIC	WPRO	Rural	GOLD	55.5	1948	209	10.7
<b>Wang et al</b>	2010	China	LMIC	WPRO	Urban	GOLD	59.5	2055	156	7.6
<b>Jiang et al</b>	2006	China	LMIC	WPRO	Rural	GOLD	59.5	1883	186	9.9
<b>Yao et al</b>	2004	China	LMIC	WPRO	Rural	GOLD	59.5	1624	148	9.1
<b>Wang et al</b>	2004	China	LMIC	WPRO	Rural	GOLD	54.3	1468	176	12.0
<b>Yin et al</b>	2006	China	LMIC	WPRO	Urban	GOLD	61.7	6497	773	11.9
<b>Smith et al</b>	2008	China	LMIC	WPRO	Mixed	GOLD	54.5	31739	13013	4.1
<b>Zhou et al</b>	2009	China	LMIC	WPRO	Mixed	GOLD	54.9	12471	462	3.7

<b>Ko et al</b>	2006	Hong Kong	HIC	WPRO	Urban	GOLD	74.2	1008	261	25.9
<b>Lau et al</b>	2003	Hong Kong	HIC	WPRO	Urban	GOLD	50	525	101	19.2
<b>Nishimura et al</b>	2011	Japan	HIC	WPRO	Urban	GOLD	56	1333	67	5.0
<b>Fukahori et al</b>	2005	Japan	HIC	WPRO	Urban	GOLD	66	1424	193	13.6
<b>Takemura et al</b>	1999	Japan	HIC	WPRO	Urban	GOLD	47.1	12760	459	3.6
<b>Fukuchi et al</b>	2000	Japan	HIC	WPRO	Mixed	GOLD	58	2343	256	10.9
<b>Kojima et al</b>	2002	Japan	HIC	WPRO	Urban	GOLD	49.5	11460	213	1.9
<b>Yoo et al</b>	2008	South Korea	HIC	WPRO	Mixed	GOLD	59	2501	335	13.4
<b>Hwang et al</b>	2008	South Korea	HIC	WPRO	Mixed	GOLD	59.5	6934	894	10.3
<b>Kim et al</b>	2003	South Korea	HIC	WPRO	Urban	GOLD	50.5	3642	134	3.7
<b>Kim et al</b>	2002	South Korea	HIC	WPRO	Mixed	GOLD	62.5	1673	288	16.2
<b>Shin et al</b>	2000	South Korea	HIC	WPRO	Urban	ATS	45.8	1160	119	10.3
<b>Fishwick et al</b>	1996	New Zealand	HIC	WPRO	Mixed	FEV1/FVC<75 %	32	1132	24	2.1
<b>Idolor et al</b>	2010	Philippines	LMIC	WPRO	Rural	GOLD	53.5	722	141	20.8
<b>Buist et al</b>	2005	Philippines	LMIC	WPRO	Urban	GOLD	52.9	893	124	13.9
<b>Lam et al</b>	2013	Philippines	LMIC	WPRO	Mixed	GOLD	47.5	565	40	7.1

*\*no overall estimate reported*