**Keyword search specifications.** We searched in Google Scholar for a combination of all keywords in column 1 with the keywords in column 2 to assess Green Space-Ecosystem Goods and Services (EGS) linkages. We used a combination of keywords in column 2 and column 3 to assess EGS-Health linkages, and a combination of keywords in column 1 and column 3 to assess Green Space-Health direct linkages. The keywords selected were based on indicators that we found to be associated to Eco-Health linkages after revising the USEPA Eco Health browser (<https://www.epa.gov/enviroatlas/enviroatlas-eco-health-relationship-browser>)

|  |  |  |
| --- | --- | --- |
| 1.Green Spaces | 2.Ecosystem Goods and Services | 3.Physical Health |
| trees | Clean Water | \*GI Disease |
| vegetation | fecal coliform | gastro-intestinal |
| green spaces | copper | diarrhea |
| green-roofs | Clean Air | vomit |
| urban forest | \*PM2.5,10 | Respiratory Illness |
| wetlands | \*NO2 | respiratory |
| mangroves | \*SO2 | bronchitis  |
| marshes | \*CO | asthma |
|  | Water Hazard Mitigation | cough |
|  | flood | wheeze |
|  | urban runoff | Cardio Vascular Disease |
|  | storm-surge | cardiovascular |
|  | hurricane | heart |
|  | wave attenuation | circulatory |
|  | Heat Hazard Mitigation | Heat Morbidities |
|  | heat | excess hospital admissions |
|  | heat-wave |  |

\*Abbreviations: PM2.5,10= particulate matter smaller than 2.5µm, or 10µm; NO2= Nitrogen dioxide; SO2= Sulfur dioxide; CO=Carbon monoxide

Literature Review Process

\*

\*

\* EGS=Ecosystem Goods and Services

**Details of articles evaluated and Eco-Evidence scores**. Abbreviations: GI Disease= Gastro Intestinal Disease; CVD=Cardiovascular disease; EGS=Ecosystem Goods and Services; Y=Yes; N=No.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Linkage | Reference | Cause | Effect | Supports Linkage?  | Design | Score | Controls | score | Impacted | Score | Total  |
| *Green Space-EGS* |  |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Clean Water** | Allen 2003 | bioretention facilities | copper removal | Y | Before/After | 2 | 0 | 0 | 4 | 3 | 5 |
| Allen 2007 | bioretention facilities | copper removal | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Ayaz et al 2008 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| Birch et al 2004 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Birch et al 2005 | stormwater infiltration basin | fecal bacteria removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Casteel et al 2005 | riparian buffer | fecal bacteria removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Cheng et al 2002 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Coleman et al 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 4 | 3 | 7 |
| Coyne et al 1995 | grass filter strips | fecal Bacteria Removal | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Dallas et al 2004 | reedbeds | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Davies and Bavor 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 1 | 0 | 5 |
| Diaz et al 2010 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 4 | 3 | 5 |
| Dorsey et al 2010 | urban salt marsh | fecal bacteria | N | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Eger and Lapakko 1988 | natural wetlands | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Gerba et al 1999 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Hill and Sobsey 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| Johnston et al 1990 | landscape wetland cover | fecal bacteria | Y | Gradient | 3 | 0 | 0 | 15 | 6 | 9 |
| Karathanasis et al 2003 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 7 |
| Karpiscak et al 1996 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Khan et al 2009 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| KNx et al 2008 | natural wetlandss | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Knox et al 2009 | impacted wetland | fecal bacteria | N | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Lau and Chu 2000 | wetland enclosures | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Li and Allen 2009 | bioretention facilities | Copper removal | Y | Before/After | 2 | 0 | 0 | 0 | 0 | 0 |
| Mahenge 2014 | constructed mangroves | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Mallin et al 2001 | wetland cover | correlation between rain and fecal coliform counts | Y | Gradient | 3 | 0 | 0 | 11 | 6 | 9 |
| Mantovi et al 2003 | reedbeds | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Murray-Gulde et al 2005 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Myers and Ambrose 2015 | urban salt marsh | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Nelson et al 2006 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Neralla et al 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 8 | 3 | 5 |
| Perkins and Hunter 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 4 | 3 | 5 |
| Quiñónez-Dìaz | constructed wetlands | fecal bacteria | N | Before/after | 2 | 1 | 2 | 1 | 0 | 4 |
| Rea et al 2015 | coastal wetland | fecal bacteria | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Reinelt and Horner 1995 | palustrine wetland | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Scholz et al 2002 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Shutes et al 2001 | constructed wetlandss | copper removal | N | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Sleytr et al 2007 | constructed wetlands | fecal bacteria | N | Before/after | 2 | 2 | 3 | 8 | 3 | 8 |
| Song et al 2006 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Steer et al 2002 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 21 | 3 | 5 |
| Tam and Wong 1995 | mangrove mesocosms | copper concentration | Y | Before/after | 4 | 6 | 3 | 6 | 3 | 10 |
| Thurston et al 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 1 | 0 | 4 |
| Vijayaraghavan and Joshi 2014 | green roof | Copper removal | Y | Before/After | 2 | 1 | 2 | 1 | 0 | 4 |
| Yang et al 2008 | constructed mangroves | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| **Green Spaces-Clean Air** | Hill 1971 | alfalfa canopy | SO2 removal | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Martin and Barber 1967 | hedge | SO2 removal | Y | Before and After | 2 | 4 | 3 | 1 | 0 | 5 |
| Chaparro-Suarez et al 2011 | tree cover | NO2 | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
| Cohen et al 2014 | tree cover | NOx | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Grundström and Pleijel 2014 | urban trees | NO2 | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Setala et al 2012 | tree canopy | NO2 | N | Impact Reference | 2 | 20 | 3 | 20 | 3 | 8 |
| Takahashi et al 2005 | trees | NO2 | Y | Before and After | 2 | 0 | 0 | 70 | 3 | 5 |
| Beckettt et al 2000 | trees | PM10, 2.5 | Y | Reference control | 2 | 5 | 3 | 5 | 3 | 8 |
| Cavanagh et al 2009 | urban forest | PM10 | Y | Gradient | 3 | 0 | 0 | 8 | 6 | 9 |
| Cohen et al 2014 | tree cover | PM10 | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Dadvand et al 2015 | greenness | TrafficRelated AirPollution | Y | Gradient | 3 | 0 | 0 | 39 | 6 | 9 |
| Islam et al 2012 | crown density | TSP removal | Y | Gradient | 3 | 0 |  | 11 | 6 | 9 |
| Manes et al 2014 | urban trees | PM 10 | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Mori et al 2015 | shrub species | Traffic Related | Y | Before and After | 2 | 0 | 0 | 6 | 3 | 5 |
| Air Pollution |
| Nguyen et al 2014 | urban forest | PM 2.5 | Y | Impact Reference | 1 | 2 | 5 | 3 | 5 |
| Rasanen et al 2013 | coniferous vs broadleaf | PM  | Y | Before and After | 2 | 4 | 3 | 4 | 3 | 8 |
| Sæbø et al 2012 | woody Species | PM 10, 2.5 | Y | Before and After | 2 | 0 | 0 | 2 | 1 | 3 |
| Setala et al 2012 | tree canopy | PM | N | Impact Reference | 2 | 20 | 3 | 20 | 3 | 8 |
| Speak et al 2012 | green roof | PM | Y | Impact Reference | 2 | 1 | 2 | 2 | 1 | 5 |
| Sternberg et al 2010 | green wall/Ivy | PM | Y | Impact Reference | 2 | 2 | 3 | 2 | 1 | 6 |
| Weber et al 2014 | herbaceous plants | PM | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Choi et al 2012 | proximity to green space | urban Heat | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| **Green Space-Heat Hazard Mitigation** | Gromke et al 2015 | green space | Heat | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Jenerette et al 2011 | NDVI | Surface Temperature | Y | Gradient | 3 | 0 | 0 | 5000 | 6 | 9 |
| Oliveira et al 2011 | green space | Surface Temperature | Y | Reference/Control | 2 | ? | ? | 1 | 0 |  |
| Shashua-Bar et al 2011 | trees,grass | Thermal Stress | Y | Reference/Control | 2 | 2 | 3 | 2 | 2 | 7 |
| Simmons et al 2008 | green roof | Surface Temperature | Y | Reference/Control | 2 | 6 | 3 | 18 | 3 | 8 |
| Vandertorren et al 2006 | green spaces | Heat | Y | Reference/Control | 2 | 257 | 3 | 257 | 3 | 8 |
| Dvorak et al 2013 | succulent roof tops | Temperature | Y | Reference/Control | 2 | 3 | 3 | 9 | 3 | 8 |
| Akbari et al 1997 | green space | Cooling Energy | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Amson et al 2012 | grass and trees | Surface Temperature | Y | Reference/Control | 2 | 1 | 2 | 3 | 3 | 7 |
| Chang and Li 2014 | cool island parks | Temperature | Y | Gradient | 3 | 0 | 0 | 60 | 6 | 9 |
| Chen et al 2014 | cool island parks | Temperature | Y | Gradient | 3 | 0 | 0 | 1089 | 6 | 9 |
| Feyisa and Milby 2014 | NDVI and park area | Cooling  | Y | Gradient | 3 | 0 | 0 | 21 | 6 | 9 |
| Kong et al 2014 | area of forest vegetation | urban Cool Island Intensity | Y | Gradient | 3 | 0 | 0 | 153 | 6 | 9 |
| Tan et al 2007 | Increased urban green space | Heat wave mortality | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 3 |
| Vailshery et al 2013 | street trees | Temperature | Y | Reference/Control | 2 | 1 | 2 | 3 | 2 | 8 |
| Yang et al 2010 | percent greening | urban Heat Island | N | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Hou et al 2013 | distance to urban wetlands | Near Surface air temperature | Y | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| Song et al 2013 | rooftop-wetlands | Temperature | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Costanza et al 2008 | coastal wetlands | storm surge damage | Y | Gradient | 3 | 0 | 0 | 34 | 6 | 9 |
| **Greenspace-WaterHazard Mitigation** | Granek and Ruttenberg 2007 | mangrove | storm surge damage | Y | BACI | 4 | 7 | 3 | 7 | 3 | 10 |
| Krauss et al 2009 | coastal wetlands | water level | Y | Before and After | 2 | 0 | 0 | 4 | 3 | 5 |
| Moller et al 2016 | salt marshes | wave attenuation | Y | Reference-Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Moller et al 1999 | salt marshes | wave energy | Y | Reference-Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Quang 2011 | mangrove | wave height | Y | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Moller et al 2014 | marshes | storm surge | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
| Highfield and Broody 2006 | inland wetlands | floods | Y | Gradient | 3 | 0 | 0 | 67 | 6 | 9 |
| Broody etal 2012 | inland wetlands | floods | Y | Gradient | 3 | 0 | 0 | 144 | 6 | 9 |
| Broody et al 2008 | inland wetlands | flood damage | Y | Gradient | 3 | 0 | 0 | 423 | 6 | 9 |
| Carlton et al 2000 | inland wetlands | changes in flow | N | Reference-Impact  | 2 | 3 | 3 | 33 | 3 | 8 |
| Broody and Highfield 2013 | open spaces | flood damages | Y | Gradient | 3 | 0 | 0 | 450 | 6 | 9 |
| Xiao and McPherson 2016 | trees | surface runoff | Y | Before and After | 2 | 0 | 0 | 20 | 3 | 5 |
| Lee et al 2013 | green spaces | surface runoff | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Stovin 2009 | green spaces | surface runoff | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Mentens et al 2006 | green roofs | surface runoff | N | Gradient | 3 | 0 | 0 | 18 | 6 | 9 |
| Simmons et al 2008 | green roos | surface runoff | Y | Before and After | 2 | 0 | 0 | 5 | 3 | 5 |
| VanWoert et al 2005 | green roofs | surface runoff | Y | BACI | 4 | 2 | 3 | 1 | 0 | 7 |
| Denardo 2005 | green roofs | surface runoff | Y | Before and After | 2 | 0 | 0 | 3 | 3 | 5 |
| Bliss et al 2008 | green spaces | surface runoff | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
|  |  |  |  |  |  |  |  |  |  |  |
| *EGS-Human Health* |  |  |  |  |  |  |  |  |  |  |
| **Clean Water-GI Disease** | Araya et al 2004 | Copper | Gi symptoms | Y | Reference/Impact | 2 | 124 | 3 | 317 | 3 | 8 |
| Collier et al 2015 | waste water in beaches | GI disease | Y | Reference/Impact | 2 | 14539 | 3 | 39711 | 3 | 8 |
| Jagai 2014 | rainfall/combinedsewer-overflows/drinking water | GI disease | Y | Reference/Impact | 2 | 1 | 2 | 2 | 2 | 6 |
| Knobeloch et al 1994 | copper | GI upsets | Y | After impact only | 1 | 0 | 0 | 5 | 3 | 4 |
| Qasim et al 2014 | waterborne pathogens | GI disease | Y | Reference/Impact | 2 | 13 | 3 | 252 | 3 | 8 |
| Tyagi et al 2013 | fecal coliforms | Water Borne Infections | Y | After impact only | 1 | 0 | 0 | 1 | 0 | 1 |
| **WaterHazard Mitigation-GI Disease** | Wade et al 2004 | flood | GI disease | Y | Control/Reference | 2 | 1110 | 3 | 1110 | 3 | 8 |
| Reacher et al 2004 | flood | GI disease | Y | Reference/Control | 2 | 104 | 3 | 103 | 3 | 8 |
| Yusof et al 1991 | flood | GI disease | Y | After Impact | 1 | 0 | 0 | 46740 | 3 | 4 |
| De Man et al 2015 | flood | GI disease | Y | Reference/Control | 2 | 1 | 2 | 149 | 3 | 7 |
| Masakazu et al 2016 | flood | GI disease | Y | Gradient | 3 | 0 | 0 | 10 | 6 | 9 |
| Jagai 2014 | rainfall | GI disease | N | BACI | 4 | 1 | 3 | 1 | 0 | 7 |
| Hashimoto et al 2014 | flood depth | GI disease | Y | Before/After | 2 | 0 | 0 | 10 | 3 | 5 |
|  |  |  |  |  |  |  |  |  |  |  |
| **WaterHazard Mitigation-Respiratory Disease** | Dales et al 1991 | flood/dampness | bronchitis and cough | Y | Reference-Control | 2 | 10250 | 3 | 3238 | 3 | 8 |
| Lakovou et al 2015 | flood | asthma | Y | After impact | 1 | 0 | 0 | 1 | 0 | 1 |
| park et al 2013 | rainfall | asthma | N | Before/After | 2 | 0 | 0 | 16 | 3 | 5 |
| Reacher et al 2004 | flood | asthma exacerbations | Y | Reference-Control | 2 | 104 | 3 | 103 | 3 | 8 |
| **Clean Air-Respiratory Illness** | Adam et al 2015 | NO2, PM10 | Forced Expiatory Volume and Forced Vital Capacity | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Adam et al 2015 | PM2.5 | Forced Expiatory Volume and Forced Vital Capacity | N | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Bayer-Oglesby et al 2005 | PM10 | Bronchitis, Chronic Cough, Common Cold | Y | Before-After | 2 | 0 | 0 | 10 | 3 | 5 |
| Bayer-Oglesby et al 2005 | PM10 | Asthma, Sneezing, Hay Fever | N | Before-After | 2 | 0 | 0 | 10 | 3 | 5 |
| Braun-Fahrländer et al 1997 | PM10, NO2, SO2 | Chronic Cough, Bronchitis, Night cough | Y | Gradient | 3 | 0 | 0 | 10 | 5 | 8 |
| Braun-Fahrländer et al 1997 | PM10, NO2, SO3 | Asthma, Allergies | N | Gradient | 3 | 0 | 0 | 10 | 5 | 8 |
| Burnett et al 1997 | Ozone | Respiratory Admissions | Y | Gradient | 3 | 0 | 0 | 16 | 5 | 8 |
| Delfino et al 2013 | PM2.5 Oxidative potential , NO2 | Asthma (fractional exhaled nitric oxide) | Y | Gradient | 3 | 0 | 0 | 45 | 5 | 8 |
| Delfino et al 2013 | PM2.5 Mass | Asthma (fractional exhaled nitric oxide) | N | Gradient | 3 | 0 | 0 | 45 | 5 | 8 |
| Dockery et al 1996 | Acid Aerosols | bronchitis,  | Y | Gradient | 3 | 0 | 0 | 24 | 5 | 8 |
| Dockery et al 1996 | Acid Aerosols | Asthma, Chronic Coungh, chronic Phlegm | N | Gradient | 3 | 0 | 0 | 24 | 5 | 8 |
| Faustini et al 2013 | PM 10, 2.5, and NO2 | Respiratory hospitalizations | Y | Gradient | 3 | 0 | 0 | 6 | 5 | 8 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Wheezing Boys | Y | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Wheezing Girls | N | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Cough, Phlegm with Cold, Boys, Girls | Y | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Allergies Boys and Girls | N | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gonzales-Barcala et al 2013 | proximity to Truck Traffic | Asthma in young Boys | Y | Gradient | 3 | 0 | 0 | >14K | 5 | 8 |
| Gonzales-Barcala et al 2013 | proximity to Truck Traffic | Asthma in Adolescent Boys and Girls | N | Gradient | 3 | 0 | 0 | >14K | 5 | 8 |
| Gorai et al 2014 | PM 2.5, SO2 | Asthma Admissions | Y | Gradient | 3 | 0 | 0 | 62 | 6 | 9 |
| Gorai et al 2014 | O3 | Asthma Admissions | N | Gradient | 3 | 0 | 0 | 62 | 6 | 9 |
| Goudarzi et al 2013 | O3 | COPD | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 1 |
| Hasunuma et al 2014 | PM, Nox | Asthma | Y | Gradient | 3 | 0 | 0 | 28 | 6 | 9 |
| Hasunuma et al 2014 | PM, Nox | Allergic Rhinitis | N | Gradient | 3 | 0 | 0 | 28 | 6 | 9 |
| Jacquemin et al 2015 | PM, Nox | Asthma | N | Gradient | 3 | 0 | 0 | 24 | 6 | 9 |
| Kim et al 2015 | proximity to Trafic Roads | Airway Hyperresponsiveness | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Liu et al 2013 | PM 10, 2.5 Nox | Allergic Rhinitis, Persistent Cough and Phlegm, Wheezing in Girls | Y | Gradient | 3 | 0 | 0 | 25 | 6 | 9 |
| Liu et al 2013 | PM 10, 2.5 Nox | Allergic Rhinitis, Persistent Cough and Phlegm, Wheezing in Boys | N | Gradient | 3 | 0 | 0 | 25 | 6 | 9 |
| Liu et al 2013 | Exposure to roads and indoor pollution | Respiratory symptoms | Y | Gradient | 3 | 0 | 0 | 6730 | 6 | 9 |
| Morales et al 2015 | prenatal NO2 exposure | lung function-preschool children | Y | Gradient | 3 | 0 | 0 | 620 | 6 | 9 |
| park et al 2013 | PM 10, NO2 | Asthmatic Hospital Admissions-Elderly | Y | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| park et al 2013 | NO2 | Asthmatic Hospital Admissions-Adults and Children | N | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| Ponka and Virtanen 1994 | NO2, SO2 | exacerbation of chronic bronchitis or emphysema-elderly | N | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Ponka and Virtanen 1994 | NO2 | exacerbation of chronic bronchitis or emphysema-adults | Y | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Ponka and Virtanen 1994 | SO2 | exacerbation of chronic bronchitis or emphysema-adults | Y | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Prescott et al 1998 | Black Smoke, PM10, NO2 | Respiratory Mortality elderly | Y | Gradient | 3 | 0 | 0 | 33 | 6 | 9 |
| Prescott et al 1998 | SO2, CO, O3, Black smoke, NO2 | Respiratory Mortality elderly and adults | N | Gradient | 3 | 0 | 0 | 33 | 6 | 9 |
| Puett et al 2014 | PM10. 2.5 | Lung Cancer-Nurses health study | Y | Gradient | 3 | 0 | 0 | 72 | 6 | 9 |
| Segala et al 1998 | PM, SO2, NO2 | Prevalent and Incident Asthma, Respiratory infections all | Y | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Segala et al 1998 | PM, NO2 | Incident and Prevalent Wheeze Mild Asthmatics | N | Gradient | 3 | 0 | 0 | 43 | 6 | 9 |
| Segala et al 1998 | PM, NO2, SO2 | Incident and Prevalent Wheeze  | Y | Gradient | 3 | 0 | 0 | 43 | 6 | 9 |
| Vandini et al 2013 | PM10 | RSV | Y | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Vandini et al 2013 | PM2.5 | RSV | N | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Walter et al 1994 | SO2 | Asthma in Spring and Summer | N  | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Walter et al 1994 | SO2 | Asthma in Winter and Fall | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Walter et al 1994 | Smoke | Respiratory All/All seasons | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Wang et al 2013 | PM10, NO2, SO2 | Respiratory Admissions Low and Moderate Temperatures | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Wang et al 2013 | PM10, SO2,NO2 | Respiratory Admissions Hot Temperatures | N | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Winquist et al 2014 | PM2.5, NO2, O3 warm season | Pediatric Asthma admissions | Y | Gradient | 3 | 0 | 0 | 1196 | 6 | 9 |
| Winquist et al 2014 | PM2.5, NO2, O3 cold season | Pediatric Asthma admissions | N | Gradient | 3 | 0 | 0 | 1148 | 6 | 9 |
| Yamazaki et al 2013 | PM2.5, O3, NO2 | Pediatric Asthma visits and Pediatric Hospital Admissions | N | Gradient | 3 | 0 | 0 | 124-243  | 6 | 9 |
| Yamazaki et al 2014 | O3 | Hospital admissions asthma | Y | Gradient | 3 | 0 | 0 | 210 | 6 | 9 |
| Zhou et al 2015 | PM10 | Respirstory mortality adults | N | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Zhou et al 2015 | PM10 | Respirstory mortality elderly  | Y | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Pope etal 2002 | SO2, PM | Lung Cancer | Y | Gradient | 3 | 0 | 0 | 51 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Clean Air-CVD** | Babish et al 2014 | PM2.5 | Hypertension | Y | Gradient | 3 | 0 | 0 | 4166 | 3 | 9 |
| Bilenko et al 2015 | PM10,2.5, SO2 | Blood Pressure | N | Gradient | 3 | 0 | 0 | 1432 | 3 | 9 |
| Chang et al 2015 | PM2.5 | CVD admissions on cool days | Y | Gradient | 3 | 0 | 0 | >1500 | 3 | 9 |
| Chang et al 2015 | PM2.5 | CVD admissions on warm days | N | Gradient | 3 | 0 | 0 | >1501 | 3 | 9 |
| Chang et al 2013 | PM 2.5 | Myocardial infarction | Y | Gradient | 3 | 0 | 0 | >1500 | 3 | 9 |
| Dong et al 2013 | PM10, SO2 | CVD survey | N  | Gradient | 3 | 0 | 0 | 24845 | 3 | 9 |
| forester et al 2014 | NO2 | Blood Pressure | Y | Reference-Control | 2 | 1222 | 3 | 704 | 3 | 8 |
| Fuks et al 2014 | Traffic load 100m from residence | Blood Pressure | Y | Gradient | 3 | 0 | 0 | 113000 | 6 | 9 |
| Hajat et al 2012 | NOx |  Blood Clots (fibrinogen) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2013 | NOx |  Inflamation (CRP, IL6, E-selecting, SICam), Blood Clots (D-Dimer) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | PM2.5 | Inflamation (CRP, IL6, E-selecting) and Blood Clots (fibrinogen) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | PM2.5 | Inflamation (SiCam) and Blood Clots (D-Dimer) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | NO2 | Inflamation (CRP, IL6, E-selecting, SICam) and Blood Clots (fibrinogen) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | NO2 |  Blood Clots (D-dimer) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Henning et al 2014 | PM2.5, 10 | Inflamation (CRP)C.Reactive Protein | Y | Before-After | 2 | 0 | 0 | >4k | 3 | 5 |
| Kajbafzadeh et al 2015 | PM2.5 Traffic | Systemic inflamation:CVD morbidity | N | Reference-Control | 2 | 48 | 3 | 48 | 3 | 8 |
| Kajbafzadeh et al 2015 | PM2.5 WoodSmoke | Systemic inflamation:CVD morbidity | Y | Reference-Control | 2 | 20 | 3 | 20 | 3 | 8 |
| Kalsch et al 2014 | PM | Toracic Aortic Calcification (artherosclerosis indicator) | Y | Gradient | 3 | 0 | 0 | >4k | 6 | 9 |
| Link et al 2013 | PM 2.5 2 hr prior | Atrial Fibrilation | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Liu et al 2014 | PM2.5, NO2 | Blood Pressure | N | Gradient | 3 | 0 | 0 | 2368 | 6 | 9 |
| Miller et al 2007 | PM 2.5  | Cardivascular Event  | Y | Gradient | 3 | 0 | 0 | 36 | 6 | 9 |
| Nuvolone et al 2013 | O3 | acute coronary event | N | Gradient | 3 | 0 | 0 | >500 | 6 | 9 |
| Nuvolone et al 2014 | O3 | out of hospital coronary death | Y | Gradient | 3 | 0 | 0 | >501 | 6 | 9 |
| Poloniecki et al 1997 | O3 | acute myocardial infarction | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2 | acute myocardial infarction | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2, O3 | Cardiac Arrhytmias | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | NO2 | Cardiac Arrhytmias | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | CO | Angina Pectoris | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, SO2, O3, N02 | Angina Pectoris | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2, NO2 | Combined Circulatory Diseases | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | O3 | Combined Circulatory Diseases | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1998 | Black Smoke, CO, SO2, NO2, O3 | Heart Failure | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Prescott et al 1998 | PM10 >65 | cardio admissions | Y | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Prescott et al 1999 | PM10 <65 | cardio admissions | no | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Prescott et al 1999 | O3, Black Smoke, So2, NO2 all | cardio admissions | no | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Schwartz et al 1999 | CO and PM10 | cardio admissions medicare | Y | Gradient | 3 | 0 | 0 | >600 | 6 | 9 |
| Tonne and Wilkinson 2013 | PM 2.5 | cardiac mortality | Y | Gradient | 3 | 0 | 0 | >6 | 6 | 9 |
| Tonne and Wilkinson 2013 | PM 10, Nox | cardiac mortality | no | Gradient | 3 | 0 | 0 | >7 | 6 | 9 |
| Zhang et al 2014 | PM 10 | cardio mortality (especially IHD) | Y | Gradient | 3 | 0 | 0 | ~11 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Heat Hazard-Heat Morbidities** | Mamou et al 2013 | Heat | Sunburn, Dehydration, Heat Stroke | Y | BACI | 4 | 4 | 3 | 4 | 3 | 10 |
| Chan et al 2013 | Heat | Respiratory/Infectious disease in hot season | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Guirguis et al 2014 | Heat | Hospital Admissions | Y | Before/After | 2 | 1 | 2 | 19 | 3 | 7 |
| Bishop et al 2015 | Heat | Hospital Admissions | Y | BACI | 4 | 6 | 3 | 3 | 3 | 10 |
| Nitschke et al 2011 | Heat | Hospital Admissions | Y | Reference-Control | 2 | 2 | 3 | 1 | 0 | 5 |
| Jones etal 1982 | 1980 Heat Wave | Heat Stroke | Y | Before/After | 2 | 2 | 3 | 2 | 2 | 7 |
| Knowlton et al 2008 | Heat Wave | Hospital Admissions | Y | Before/After | 2 | 0 | 0 | 6 | 3 | 5 |
| Semenza et al 1999 | Heat Wave | Dehydration, Heat Stroke, Heat Exhaustion | no | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Brunetti et al 2013 | Heat Wave | Telecardiology | Y | Reference/Control | 2 | 24 | 3 | 6 | 3 | 8 |
| Grolund et al 2014 | Heat Wave | Hospital Admissions Medicare | Y | Gradient | 3 | 0 | 0 | 114 | 6 | 9 |
| Hess et al 2014 | Temperature Anomalies | Emergency Department Visits | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Jones et al 1982 | 1980 Heat Wave | Hospital Visits | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| kingsley etal 2016 | Teperature change | Hospital admissions | Y | Gradient | 3 | 0 | 0 | 1260 | 6 | 9 |
| Smith et al 2012 | Heat Wave | ED Visits | Y | Reference/Control | 2 | 3 | 3 | 1 | 0 | 5 |
| Stotz et al 2014 | Temperature Increase | Blood Pressure-Heart Rate | Y | Before/After | 2 | 0 | 0 | 26 | 3 | 5 |
| Tasian et al 2014 | Temperature | Kidney Stones | Y | Gradient | 3 | 0 | 0 | >2190 | 6 | 9 |
| Xu et al 2014 | Extreme Temperatures | Pediatric ED visits | Y | Gradient | 3 | 0 | 0 | >2190 | 6 | 9 |
| Zhang et al 2014 | Temperature | Cardiac-Senile Mice | Y | Reference/Control | 2 | 6 | 3 | 6 | 3 | 8 |
|  |  |  |  |  |  |  |  |  |  |  |
| *green space-Human Health* |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Respiratory Illness** | Donovan et al 2013 | green space  | Mortality-Lower Respiratory Tract | Y | Gradient | 3 | 0 | 0 | 1296 | 6 | 9 |
| Lee et al 2014 | forest vs City Walking | Respiratory Risk-Pulmonary Function Decrease | Y | BACI | 4 | 19 | 3 | 43 | 3 | 10 |
| Lovasi et al 2013 | tree canopy cover | Asthma/Allergies | N | Gradient | 3 | 0 | 0 | 549 | 6 | 9 |
| Dadvand et al 2014 | proximity to parks | Asthma | N | Gradient | 3 | 0 | 0 | 3178 | 6 | 9 |
| Fuertes et al 2014 | Residential greenness | Allergies | N | Gradient | 3 | 0 | 0 | 2531 | 6 | 9 |
| Fuertes et al 2015 | Residential greenness | Allergies | Y | Gradient | 3 | 0 | 0 | 2007 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Heat Morbidities** | Harlan et al 2013 | Vegetation | Heat Mortality | Y | Gradient | 3 | 0 | 0 | 2081 | 6 | 9 |
| Vandertorren et al 2006 | green space | Heat Mortality | Y | BACI | 4 | 262 | 3 | 315 | 3 | 8 |
| Burkart et al 2015 | NDVI | Heat Mortality | Y | Gradient | 3 | 0 | 0 | 203 | 6 | 9 |
| **Green Space-CVD** | Donovan et al 2013 | green space | CVD Mortality | Y | Gradient | 3 | 0 | 0 | 1296 | 6 | 9 |
| Donovan et al 2013 | green space | CV Disease | Y | Gradient | 3 | 0 | 0 | 534891 | 6 | 9 |
| Pereira et al 2012 | green space/NDVI | Coronary Heart Disease | Y | Gradient | 3 | 0 | 0 | 11404 | 6 | 9 |

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