

## SUPPLEMENTAL APPENDIX

OVID / MEDLINE Search Strategy (Ovid: 01/01/2000 – 04/08/16).

#	Search terms	Results
1	Pancreatitis/ or pancreatitis.mp.	60284
2	Gastrointestinal disease*.mp. or Gastrointestinal Diseases/	40125
3	General Surgery.mp. or General Surgery/	40125
4	Trauma.mp.	213492
5	neurology.mp. or Neurology/	30421
6	heart failure.mp. or Heart Failure/	162968
7	myocardial infarction.mp. or Myocardial Infarction/	211617
8	Stroke/ or Stroke.mp.	220601
9	Sepsis/ or Shock, Septic/	67240
10	Pneumonia.mp. or Pneumonia/	128580
11	(sepsis or septic shock or septicemia).mp.	118491
12	Critical illness.mp. or Critical Illness/	23915
13	critical care.mp. or Critical Care/	56664
14	((critical* or acute or intensive) adj3 (care or disease or ill or illness)).mp.	421548
15	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14	1460650
16	Blood Glucose/	142116
17	((blood or plasma) adj3 glucose).mp.	185164
18	Hyperglycemia/	23405

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19	hyperglyc?emi*.mp.	57346
20	16 or 17 or 18 or 19	216926
21	Diabetes Mellitus, Type 2/	101266
22	((type 2 or type ii) adj3 diabet*).mp.	141247
23	(TIIDM or T2DM).mp.	10992
24	diabetes mellitus.mp. or Diabetes Mellitus/	352164
25	diabetes.mp.	491980
26	21 or 22 or 23 or 24 or 25	493018
27	Cohort Studies/	201290
28	epidemiology.mp. or Epidemiology/	183148
29	Retrospective Studies/	596830
30	Follow-Up Studies/	556172
31	Prospective Studies/	426004
32	27 or 28 or 29 or 30 or 31	1666932
33	long term.mp.	638530
34	(predict* or subsequent or future or likelihood or predispose* or newly diagnosed).mp.	2262346
35	Risk.mp. or Risk/	1930345
36	(Inciden* or prognosis or outcome*).mp.	2821889
37	33 or 34 or 35 or 36	5822000
38	Hospital*.mp.	1277800
39	Hospitalization/ or Hospitalization.mp.	153563
40	((unit* or department*) adj3 (intensive care or emergency)).mp.	174485
41	38 or 39 or 40	1355887
42	15 and 20 and 26 and 32 and 37 and 41	589

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43	limit 42 to (english language and humans and yr="2000 -Current" and "all adult (19 plus years)")	450
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OVID / EMBASE Search Strategy (Ovid: 01/01/2000 – 04/08/16).

#	Search terms	Results
1	hyperglycemia/	71962
2	hyperglyc?emi*.mp.	95726
3	glucose blood level/	195560
4	((plasma or blood) adj3 glucose).mp.	237208
5	1 or 2 or 3 or 4	296044
6	diabetes mellitus.mp. or diabetes mellitus/	698594
7	((type 2 or type ii) adj3 diabet*).mp.	156397
8	(TIIDM or T2DM).mp.	20126
9	diabetes.mp.	786389
10	non insulin dependent diabetes mellitus/ or non insulin dependent diabetes mellitus.mp.	179897
11	6 or 7 or 8 or 9 or 10	787488
12	pancreatitis/ or pancreatitis.mp.	89184
13	gastrointestinal disease/ or gastrointestinal disease*.mp.	86807
14	general surgery.mp. or general surgery/	17827
15	trauma.mp.	247901
16	neurology.mp. or neurology/	77423
17	heart failure.mp. or heart failure/	292598

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18	myocardial infarction.mp. or heart infarction/	321934
19	cerebrovascular accident.mp. or cerebrovascular accident/	130065
20	stroke.mp.	317860
21	sepsis/	118809
22	(sepsis of septic shock or septicemia).mp.	29231
23	pneumonia.mp. or pneumonia/	233308
24	critical illness.mp. or critical illness/	28288
25	intensive care.mp. or intensive care/	255952
26	((critical* or acute or intensive) adj3 (care or ill or illness)).mp.	332306
27	12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26	1891142
28	cohort analysis.mp. or cohort analysis/	254277
29	epidemiology/ or epidemiology.mp.	372341
30	retrospective study.mp. or retrospective study/	514730
31	follow-up study.mp. or follow up/	1073095
32	prospective study.mp. or prospective study/	400622
33	28 or 29 or 30 or 31 or 32	2243954
34	long term.mp.	865173
35	(predict* or subsequent or future or likelihood or predispose* or newly diagnosed).mp.	2767547
36	RIsk.mp. or risk/	2718055
37	(inciden* or prognosis or outcome*).mp.	3551910
38	34 or 35 or 36 or 37	7402235
39	Hospital*.mp.	1878313
40	hospitalization/ or Hospitalization.mp.	315143

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41	((unit* or department*) adj3 (intensive care or emergency)).mp.	244983
42	39 or 40 or 41	1992422
43	5 and 11 and 27 and 33 and 38 and 42	1342
44	limit 43 to (human and english and yr="2000 -Current" and (adult <18 to 64 years> or aged <65+ years>))	783

Scopus search strategy (Scopus: 01/01/2000 – 04/08/2016)

((TITLE-ABS-KEY (hyperglyc?emi\* OR "blood glucose" OR (blood W/3 glucose) OR (plasma W/3 glucose))) AND (TITLE-ABS-KEY ("diabetes mellitus" OR ("type 2" W/3 diabet\*) OR ("type ii" W/3 diabet\*) OR diabetes)) AND (TITLE-ABS-KEY ((critical\* W/3 care) OR (critical\* W/3 ill) OR (critical\* W/3 illness) OR (critical\* W/3 disease) OR (acute W/3 care) OR (acute W/3 disease) OR (acute W/3 ill) OR (acute W/3 illness) OR (intensive W/3 care) OR (intensive W/3 ill) OR (intensive W/3 illness) OR (intensive W/3 disease) OR pancreatitis OR "general surgery" OR "gastrointestinal disease\*" OR trauma OR neurology OR "heart failure" OR "myocardial infarction" OR stroke OR sepsis OR "septic shock" OR septicemia OR pneumonia))) AND ((TITLE-ABS-KEY ("cohort study" OR "epidemiology" OR "retrospective study" OR "follow-up study" OR "prospective study"))) AND (TITLE-ABS-KEY ("long term" OR predict\* OR subsequent OR future OR likelihood OR predispose\* OR "newly diagnosed"))) AND (TITLE-ABS-KEY (hospital\* OR hospitalization OR (unit\* W/3 "intensive care") OR (unit\* W/3 emergency) OR (department\* W/3 "intensive care") OR (department W/3 emergency))))

Limited to English language and year 2000 – current