Table 2: Characteristics of studies included in systematic review.

First author	Year	Country	Time	Setting	Speciality	Respondent(s)	Patients	Patient age (years)	Male patients (%)
Mahes A.	2023	USA	1-year	Hospital outpatient	Unselected	Physicians	301	74.7 ± 8.2	67.1
Lin C.A.	2023	Brazil	1-year	Hospital outpatient	General medicine	Physicians	840	60.9 ± 14.9	31.9
Um Y.W.	2023	South Korea	30-days	Emergency department	Unselected	Physicians	300	70.5 (59.3- 81.8)	54
Dogbey D.M.	2022	South Africa	6-months	Inpatient	Oncology	Physicians	43	58 (45-68)	35
Kim S.H.	2022	South Korea	7-days 21-days 42-days	Inpatient	Oncology	Physicians	130	66.0 ± 12.2	50.8
Maes H.	2022	Belgium	1-year	Hospital inpatient	Unselected Cardiology	Physicians	381	Not reported	81.4
Gaffney L.	2022	Ireland	1-year	Emergency department	Unselected	Physicians	191	79 (74-83)	45
Ikari T.	2021	Japan, Korea, Taiwan	1-day	Inpatient	Oncology	Physicians	1411	72.6 ± 12.2	50.7
Ikari T.	2021	Japan, Korea, Taiwan	3-days	Inpatient	Oncology	Physicians	1411	72.6 ± 12.2	50.7
Moor C.C.	2021	Netherlands	1-year	Outpatient	Respiratory	Physicians Specialist nurses	140	74.0 ± 6.5	87.1
Gonzalez- Jaramillo V.	2021	Colombia	1-year	Outpatient	Cardiology	Physicians	174	70 (58-77)	55.2
Tripp D.	2021	USA	30-days 1-year	Inpatient	Respiratory	Physicians Advanced practice providers	428	Not reported	49.1
Ermers D.J.M.	2021	Netherlands	1-year	Hospital outpatient	Oncology	Physicians Trainee physicians	379	59.4 ± 15	55.7
Yarnell C.	2021	Canada	1-year	Hospital inpatient	General medicine	Physicians Trainee physicians	417	75 (60-85)	52.0

Ros M.M.	2021	Netherlands	2-days 10-days 1-year	Intensive care unit	Unselected	Physicians	3140	63.5 ± 16.6	57.1
Flierman I.	2020	Netherlands	1-year	Inpatient	Unselected	Nurses	234	81.2 ± 6.6	48.4
Van Wijmen M.P.S.	2020	Netherlands	1-year	Primary care	Unselected	Physicians	57	Not reported	28.4
Ramer S.J.	2020	USA	2-years	Hospital outpatient	Nephrology	Physicians Advanced practitioners	377	72 (66-78)	49
Lai CF.	2020	Taiwan	1-year	Hospital outpatient	Nephrology	Nurses	401	56.2 ± 14	49.9
Rauh L.A.	2020	USA	1-year	Hospital outpatient	Oncology	Physician Nurse Advanced practice providers	358	Not reported	Not reported
Yen YF.	2020	Taiwan	1-year	Hospital inpatient	Unselected	Nurses	21098	62.8 ± 19.0	53.2
Ouchi K.	2019	USA	30-days	Emergency department	Unselected	Physicians	10737	75.9 ± 8.8	48.5
Verhoef M.J.	2019	Netherlands	1-year	Emergency department	Oncology	Physicians	245	62 (45-79)	48
Aaronson E.L.	2019	USA	1-year	Emergency department	Cardiology	Physicians	193	74.5 ± 12.6	
Schmidt R.J.	2019	USA	1-year	Hospital outpatient	Nephrology	Physicians Trainee physicians Nurse practitioners	749	69.3 ± 14.6	50.9
Lakin J.R.	2019	USA	2-years	Primary care	Primary care	Physicians Nurses	2611	Not reported	40.9
Veldhoven C.M.M.	2019	Netherlands	1-year	Primary care	Unselected	Physicians	292	84 ± 5.5	40.1
Haydar S.A.	2019	USA	30-days	Emergency department	Unselected	Physicians	6122	66 (51-79)	51.7
Straw S.	2019	UK	1-year	Hospital inpatient	Cardiology	Physicians Trainee-physicians Nurses Nurse practitioners	129	71 ± 14	64
Rice J.	2018	Canada	3-months	Nursing home	Unselected	Physicians	301	85.9 ± 9.0	67.8

			6-months			Nurses Support workers			
Burke K.	2018	UK	90-days 1-year	Hospice	Paediatric	Physicians Nurses Administrators	327	7.6 ± 5.3	56.6
Ouchi K.	2018	USA	1-year	Emergency department	Unselected	Physicians	207	75 ± 7.5	51.2
Liyanage T.	2018	Australia	1-year	Nursing home	Unselected	Nurses	187	82.4 ± 9.1	44.4
Mitchell G.K.	2018	Australia	1-year	Primary care	Unselected	Physicians	4365	Not reported	Not reported
Ebke M.	2018	Germany	1-year	Hospital outpatient	Neurorehabilitation	Physicians	236	63 ± 14	57.7
Mudge A.M.	2018	Australia	1-year	Hospital inpatient	Unselected	Physicians Nurses	100	60.2 ± 18.9	53.8
Gulini J.E.H.M.B.	2018	Brazil	1-day	Intensive care unit	Unselected	Physicians	170	57 ± 15.6	51.2
Salat H.	2017	USA	1.9-years	Hospital outpatient	Nephrology	Physician	488	71 (65-77)	49
Malhotra R.	2017	USA	6-months 1-year	Hospital outpatient	Nephrology	Physician	215	Not reported	55
Hadique S.	2017	USA	6-months	Intensive care unit	Unselected	Physician	1043	Not reported	53.7
Gomez- Batiste X.	2017	Spain	1-year 2-years	Primary care Hospital outpatient Intermediate care centre Nursing home	Unselected	Physician/nurse	1059	Not reported	Not reported
Javier A.D.	2017	USA	1-year	Hospital outpatient	Nephrology	Physicians Trainee physicians Nurse practitioners	388	71 (65-77)	49.7
Amro O.W.	2016	USA	1-year	Hospital outpatient	Nephrology	Physicians	201	66	52.2
Lakin J.R.	2016	USA	1-year	Primary care	Unselected	Physicians	1737	65	39.7

Carmen J.	2016	Spain	1-year	Hospital outpatient	Nephrology	Physicians	49	Not reported	Not reported
Hamano J.	2015	Japan	7-days 30-days	Hospital and community palliative care	Oncology	Physicians	2361	69.1 ± 12.8	57.5
Feyi K.	2015	UK	1-year	Hospital outpatient	Nephrology	Physicians Nurses	178	72	63.2
Moroni M.	2014	Italy	1-year	Primary care	Primary care/oncology	Physicians	231	70.2 (SE 0.9)	50.6
O'Callaghan A.	2014	New Zealand	6-months 1-year	Hospital inpatient	Acute medicine	Physicians Nurse practitioners	501	Not reported	Not reported
Da Silva Gane M.	2013	UK	1-year	Hospital outpatient	Nephrology	Physician Nurses	3896	Not reported	Not reported
Pang WF.	2013	China	1-year	Hospital outpatient	Nephrology	Physicians	367	60.2 ± 12.3	55.9
Haga K.	2012	UK	1-year	Hospital outpatient	Cardiology	Nurses	138	77 ± 10	66
Fenning S.	2012	UK	1-year	Hospital outpatient	Cardiology	Physicians	172	66 ±14	61
Moss A.H.	2010	USA	1-year	Hospital outpatient	Oncology	Physicians	826	Not reported	Not reported
Cohen L.M.	2010	USA	6-months	Hospital outpatient	Nephrology	Physicians	450	Not reported	56.7
Moss A.H.	2008	USA	1-year	Hospital outpatient	Nephrology	Physicians	147	66.4 ± 14.8	55.1
Barnes S.	2008	UK	1-year	Primary care	Cardiology	Physicians	231	77	54.1
Age is displaye	ed as mea	an ± standard dev	iation or medi	ian (interquartile r	ange) where available.				

Table 3: Accuracy of individual studies.

			Surprise Que	stion results				Diagnostic test resu	lts	
First author	Sample size	Surprise Question responses	Total	Dead	Alive	Sensitivity (95% CI)	Specificity (95% CI)	Positive predictive value (95% CI)	Negative predictive value (95% CI)	Accuracy (95% CI)
Rice J.	301	Not surprised Surprised	191 194	62 34	134 160	0.646 (0.541 – 0.741)	0.544 (0.485 – 0.602)	0.316 (0.276 – 0.360)	0.825 (0.779 – 0.863)	0.569 (0.518 – 0.619)
Ikari T.	1411	Not surprised Surprised	847 564	232	615 513	0.820 (0.770 – 0.863)	0.455 (0.425 – 0.4840	0.274 (0.259 – 0.289)	0.910 (0.886 – 0.929)	0.528 (0.502 – 0.554)
lkari T.	1411	Not surprised Surprised	1179 232	636 38	543 194	0.944 (0.923 – 0.960)	0.263 (0.232 – 0.297)	0.539 (0.528 – 0.551)	0.836 (0.786 – 0.877)	0.588 (0.562 – 0.614)
Dogbey D.M.	43	Not surprised Surprised	21	18	3	0.667 (0.460 – 0.835)	0.813 (0.544 – 0.960)	0.857 (0.676 – 0.945)	0.591 (0.446 – 0.721)	0.721 (0.563 – 0.847)
Moor C.C.	140	Not surprised Surprised	39 101	19 9	20	0.679 (0.477 – 0.841)	0.821 (0.738 – 0.887)	0.487 (0.372 – 0.604)	0.911 (0.856 – 0.946)	0.793 (0.716 – 0.857)
Gonzalez- Jaramillo V.	174	Not surprised Surprised	83 91	17	66 88	0.850 (0.621 – 0.968)	0.571 (0.489 – 0.651)	0.205 (0.166 – 0.250)	0.967 (0.911 – 0.988)	0.603 (0.527 – 0.677)
	381 (30 days)	Not surprised Surprised	19 362	2	17 348	0.125 (0.016 – 0.384)	0.953 (0.927 – 0.973)	0.105 (0.029 – 0.318)	0.961 (0.954 – 0.968)	0.919 (0.887 – 0.944)
Tripp D.	365 (365 days)	Not surprised Surprised	108 257	38 43	70 214	0.469 (0.357 – 0.583)	0.754 (0.699 – 0.803)	0.352 (0.285 – 0.425)	0.833 (0.801 – 0.861)	0.690 (0.640 – 0.738)
Flierman I.	234	Not surprised Surprised	135	59 14	76 85	0.808 (0.699 – 0.891)	0.528 (0.448 – 0.607)	0.437 (0.389 – 0.486)	0.859 (0.788 – 0.909)	0.615 (0.550 – 0.678)
	130 (7 days)	Not surprised Surprised	20	7 8	13	0.467 (0.213 – 0.734)	0.887 (0.815 – 0.938)	0.350 (0.204 – 0.531)	0.927 (0.888 – 0.954)	0.839 (0.764 – 0.897)
Kim S.H.	130 (21 days)	Not surprised Surprised	54 76	37 33	17	0.529 (0.406 – 0.649)	0.717 (0.586 – 0.826)	0.685 (0.579 – 0.775)	0.566 (0.493 – 0.636)	0.615 (0.526 – 0.699)
	130 (42 days)	Not surprised Surprised	100	87 19	13	0.821 (0.734 – 0.889)	0.458 (0.256 – 0.672)	0.870 (0.821 – 0.907)	0.367 (0.242 – 0.512)	0.754 (0.671 – 0.825)
Ouchi K.	10737	Not surprised Surprised	3324 12899	685 896	2639 12003	0.433 (0.409 – 0.458)	0.820 (0.813 – 0.826)	0.206 (0.196 – 0.217)	0.931 (0.928 – 0.933)	0.782 (0.776 – 0.788)
Ermers	379 (SQ1)	Not surprised Surprised	188	103 15	85 176	0.873 (0.799 – 0.927)	0.674 (0.614 – 0.731)	0.548 (0.501 – 0.594)	0.922 (0.879 – 0.950)	0.736 (0.689 – 0.780)
D.J.M.	188 (SQ2)	Not surprised Surprised	105	42	63	0.408 (0.312 – 0.509)	0.259 (0.170 – 0.365)	0.400 (0.339 – 0.465)	0.265 (0.196 – 0.348)	0.340 (0.273 – 0.413)
Yarnell C.	417 (AP – 365 days)	Not surprised Surprised	298 119	143	155 102	0.894 (0.835 – 0.937)	0.397 (0.337 – 0.460)	0.480 (0.452 – 0.508)	0.857 (0.789 – 0.906)	0.588 (0.539 – 0.635)
ramen o.	uayo	Not surprised	250	132	118	0.825	0.541	0.528	0.832	0.650

Supplemental material

Yen Y.-F.

21098

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(0.602 - 0.696)

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(0.291 - 0.319)

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17523

59

Aaronson E.L.		Surprised	90	12	78	(0.656 – 0.884)	(0.482 – 0.654)	(0.371 – 0.486)	(0.794 – 0.916)	(0.560 – 0.700)
Schmidt R.J.	749	Not surprised	173	61	112	0.604	0.827	0.353	0.931	0.797
Schilliat H.J.	749	Surprised	576	40	536	(0.502 - 0.700)	(0.796 - 0.856)	(0.302 - 0.407)	(0.913 - 0.945)	(0.766 - 0.825)
	1448 (Nurses)	Not surprised	352	112	240	0.526	0.806	0.318	0.908	0.765
Lakin J.R.	1440 (Nuises)	Surprised	1096	101	995	(0.457 - 0.595)	(0.783 - 0.827)	(0.282 - 0.356)	(0.895 - 0.919)	(0.742 - 0.786)
Lakiii J.n.	1163 (Physicians)	Not surprised	452	143	309	0.794	0.686	0.316	0.948	0.703
	1103 (Filysicialis)	Surprised	711	37	674	(0.728 - 0.851)	(0.656 - 0.715)	(0.291 - 0.343)	(0.932 - 0.961)	(0.675 - 0.729)
	292 (SQ1)	Not surprised	161	24	137	0.923	0.485	0.149	0.985	0.524
Veldhoven	292 (3Q1)	Surprised	131	2	129	(0.749 - 0.991)	(0.424 - 0.547)	(0.130 - 0.171)	(0.944 - 0.996)	(0.465 - 0.583)
C.M.M.	161 (SQ2)	Not surprised	22	10	12	0.417	0.912	0.455	0.899	0.830
	161 (5Q2)	Surprised	139	14	125	(0.221 - 0.634)	(0.852 - 0.954)	(0.289 - 0.631)	(0.864 - 0.926)	(0.772 - 0.892)
	325 (majority vote	Not surprised	36	15	21	0.833	0.932	0.417	0.990	0.926
	- 90 days)	Surprised	289	3	286	(0.586 - 0.964)	(0.897 - 0.957)	(0.310 - 0.531)	(0.971 - 0.996)	(0.892 - 0.952)
	306 (majority vote	Not surprised	106	25	81	0.833	0.707	0.236	0.975	0.719
	- 365 days)	Surprised	200	5	195	(0.653 - 0.944)	(0.649 - 0.760)	(0.195 - 0.282)	(0.946 - 0.989)	(0.665 - 0.769)
	238 (100%	Not surprised	21	14	7	0.933	0.969	0.667	0.995	0.966
	agreement - 90 days)	Surprised	217	1	216	(0.681 – 0.998)	(0.936 – 0.987)	(0.488 – 0.808)	(0.970 – 0.999)	(0.935 – 0.985)
	175 (100%	Not surprised	57	21	36	0.955	0.765	0.368	0.992	0.789
	agreement – 365 days)	Surprised	118	1	117	(0.772 – 0.999)	(0.689 – 0.829)	(0.302 – 0.441)	(0.945 – 0.999)	(0.721 – 0.847)
Develop 16	290 (75 – 100%	Not surprised	26	14	12	0.824	0.956	0.539	0.989	0.948
Burke K.	agreement – 90 days)	Surprised	264	3	261	(0.566 – 0.962)	(0.925 – 0.977)	(0.391 – 0.679)	(0.969 – 0.996)	(0.916 – 0.971)
	236 (75 – 100%	Not surprised	80	24	56	0.000	0.700	0.000	0.007	0.754
	agreement – 365 days)	Surprised	156	2	154	0.923 (0.749 – 0.991)	0.733 (0.668 – 0.792)	0.300 (0.250 – 0.355)	0.987 (0.953 – 0.997)	0.754 (0.694 – 0.808)
	122 (Neurology –	Not surprised	28	7	21	0.875	0.816	0.250	0.989	0.820
	365 days)	Surprised	94	1	93	(0.474 - 0.997)	(0.732 - 0.882)	(0.173 - 0.347)	(0.937 - 0.998)	(0.740 - 0.883)
	27 (Oncology – 365	Not surprised	22	12	10	1.000	0.333	0.546	1.000	0.630
	days)	Surprised	5	0	5	(0.735 - 1.000)	(0.118 - 0.616)	(0.456 - 0.632)	1.000	(0.424 - 0.806)
	73 (Congenital –	Not surprised	24	4	20	0.667	0.702	0.167	0.959	0.699
	365 days)	Surprised	49	2	47	(0.223 - 0.957)	(0.577 - 0.807)	(0.093 - 0.282)	(0.882 - 0.987)	(0.580 - 0.801)
Ouchi K.	207	Not surprised	102	34	68	0.773	0.583	0.333	0.905	0.623
Ouchi K.	207	Surprised	105	10	95	(0.622 - 0.885)	(0.503 - 0.660)	(0.282 - 0.289)	(0.844 - 0.943)	(0.553 - 0.690)
Livenege T	187	Not surprised	80	30	50	0.714	0.655	0.375	0.888	0.668
Liyanage T.	187	Surprised	107	12	95	(0.554 - 0.843)	(0.572 - 0.732)	(0.309 - 0.446)	(0.829 - 0.928)	(0.596 - 0.735)
Mitaball O. K	0040 (lataitia	Not surprised	154	32	122	0.337	0.956	0.208	0.977	0.935
Mitchell G.K.	2840 (Intuition)	Surprised	2686	63	2623	(0.243 – 0.441)	(0.947 - 0.963)	(0.159 - 0.268)	(0.973 - 0.980)	(0.925 - 0.944)

	1505 (05)	Not surprised	179	25	154	0.532	0.896	0.140	0.984	0.885
	1525 (ST)	Surprised	1346	22	1324	(0.381 - 0.679)	(0.879 - 0.911)	(0.107 - 0.181)	(0.978 - 0.988)	(0.868 - 0.900)
	236	Not surprised	45	17	28	0.500	0.004	0.070	0.044	0.000
Ebke M.	(Neurorehabilitation Physicians)	Surprised	191	17	174	0.500 (0.324 – 0.676)	0.861 (0.806 – 0.906)	0.378 (0.273 – 0.496)	0.911 (0.879 – 0.935)	0.809 (0.753 – 0.857)
	236 (Palliative Care	Not surprised	83	23	60	0.677	0.703	0.277	0.928	0.699
	Physicians)	Surprised	153	11	142	(0.495 - 0.826)	(0.635 - 0.765)	(0.219 - 0.344)	(0.887 - 0.955)	(0.636 - 0.757)
Mudge A.M.	100	Not surprised	52	16	36	0.889	0.561	0.308	0.958	0.620
wuuge A.w.	100	Surprised	48	2	46	(0.653 - 0.986)	(0.447 - 0.670)	(0.249 - 0.374)	(0.860 - 0.989)	(0.518 - 0.715)
Calastil	488	Not surprised	171	56	115	0.644	0.713	0.328	0.902	0.701
Salat H.	488	Surprised	317	31	286	(0.534 - 0.744)	(0.666 - 0.757)	(0.281 - 0.378)	(0.874 - 0.925)	(0.658 - 0.741)
	000 (400 -1)	Not surprised	203	10	193	0.769	0.010	0.049	0.400	0.058
Malhatra D	208 (180 days)	Surprised	5	3	2	(0.462 - 0.950)	(0.001 - 0.037)	(0.037 - 0.065)	(0.109 - 0.785)	(0.030 - 0.099)
Malhotra R.	100 (00E days)	Not surprised	162	13	149	0.650	0.118	0.080	0.741	0.175
	189 (365 days)	Surprised	27	7	20	(0.408 - 0.846)	(0.074 - 0.177)	(0.059 - 0.108)	(0.580 - 0.855)	(0.123 - 0.236)
	500 (Derivation	Not surprised	238	148	90	0.822	0.719	0.622	0.878	0.756
	cohort)	Surprised	262	32	230	(0.758 - 0.875)	(0.666 - 0.767)	(0.577 - 0.665)	(0.839 - 0.908)	(0.716 - 0.793)
Hadique S.	543 (Validation	Not surprised	204	139	65	0.739	0.817	0.681	0.856	0.790
	cohort)	Surprised	339	49	290	(0.671 - 0.801)	(0.773 - 0.856)	(0.628 - 0.730)	(0.822 - 0.883)	(0.753 - 0.824)
	10E0 (20E days)	Not surprised	837	268	569	0.937	0.264	0.320	0.919	0.446
Gomez-	1059 (365 days)	Surprised	222	18	204	(0.902 - 0.962)	(0.233 - 0.297)	(0.309 - 0.332)	(0.877 - 0.947)	(0.416 - 0.476)
Batiste X.	1059 (730 days)	Not surprised	837	373	464	0.914	0.287	0.446	0.842	0.529
	1059 (750 days)	Surprised	222	35	187	(0.883 - 0.940)	(0.253 - 0.324)	(0.432 - 0.460)	(0.792 - 0.882)	(0.498 - 0.559)
Javies A.D.	388	Not surprised	137	33	104	0.635	0.691	0.241	0.924	0.683
Javier A.D.	300	Surprised	251	19	232	(0.490 - 0.764)	(0.638 - 0.740)	(0.196 - 0.292)	(0.894 - 0.946)	(0.634 - 0.729)
Amus OW	001	Not surprised	50	22	28	0.550	0.826	0.440	0.881	0.771
Amro O.W.	201	Surprised	151	18	133	(0.385 - 0.707)	(0.759 - 0.881)	(0.336 - 0.549)	(0.839 - 0.913)	(0.707 - 0.827)
Lakin J.R.	1737	Not surprised	114	23	91	0.205	0.944	0.202	0.945	0.896
Lakiii J.n.	1737	Surprised	1623	89	1534	(0.135 - 0.292)	(0.932 - 0.955)	(0.143 - 0.277)	(0.940 - 0.950)	(0.881 - 0.910)
	0001 (7 days)	Not surprised	931	282	649	0.847	0.680	0.303	0.964	0.704
Hamano J.	2361 (7 days)	Surprised	1430	51	1379	(0.804 - 0.884)	(0.659 - 0.700)	(0.287 - 0.320)	(0.955 - 0.972)	(0.685 - 0.722)
паніано Ј.	0001 (00 days)	Not surprised	1851	1066	785	0.956	0.370	0.576	0.904	0.647
	2361 (30 days)	Surprised	510	49	461	(0.942 - 0.967)	(0.343 - 0.397)	(0.565 - 0.587)	(0.876 - 0.926)	(0.627 - 0.666)
Faui V	178	Not surprised	58	37	21	0.726	0.835	0.638	0.883	0.803
Feyi K.	1/8	Surprised	120	14	106	(0.583 – 0.841)	(0.758 - 0.895)	(0.535 - 0.730)	(0.828 - 0.923)	(0.737 - 0.859)
Marani M	231	Not surprised	126	87	39	0.837	0.693	0.691	0.838	0.758
Moroni M.	231	Surprised	105	17	88	(0.751 – 0.902)	(0.605 - 0.772)	(0.629 - 0.746)	(0.768 - 0.890)	(0.697 - 0.811)
O'Callaghan	E01 (100 days)	Not surprised	99	56	43	0.727	0.899	0.566	0.948	0.872
A.	501 (180 days)	Surprised	402	21	381	(0.614 – 0.823)	(0.866 - 0.926)	(0.487 – 0.641)	(0.926 - 0.963)	(0.840 - 0.900)

	E04 (00E L )	Not surprised	99	67	32	0.626	0.919	0.677	0.901	0.856
	501 (365 days)	Surprised	402	40	362	(0.527 – 0.718)	(0.887 - 0.944)	(0.593 - 0.751)	(0.876 - 0.920)	(0.823 - 0.886)
Da Silva	0000	Not surprised	938	281	657	0.496	0.803	0.300	0.904	0.758
Gane M.	3896	Surprised	2958	285	2673	(0.455 - 0.538)	(0.789 - 0.816)	(0.278 - 0.323)	(0.896 - 0.911)	(0.744 - 0.772)
Dona W. E	367	Not surprised	109	27	82	0.614	0.746	0.248	0.934	0.730
Pang WF.	367	Surprised	258	17	241	(0.455 - 0.756)	(0.695 - 0.793)	(0.196 - 0.308)	(0.907 - 0.9540	(0.682 - 0.775)
Hara K	138	Not surprised	120	39	81	0.886	0.138	0.325	0.722	0.377
Haga K.	138	Surprised	18	5	13	(0.754 - 0.962)	(0.076 - 0.225)	(0.297 - 0.355)	(0.497 - 0.873)	(0.296 - 0.463)
Fenning S.	172	Not surprised	38	6	32	0.353	0.794	0.158	0.918	0.750
renning 5.	172	Surprised	134	11	123	(0.142 - 0.617)	(0.721 - 0.854)	(0.084 - 0.277)	(0.886 - 0.941)	(0.678 - 0.813)
Mass A U	826	Not surprised	131	53	78	0.747	0.897	0.405	0.974	0.884
Moss A.H.	820	Surprised	695	18	677	(0.629 - 0.842)	(0.873 - 0.918)	(0.346 - 0.466)	(0.962 - 0.983)	(0.860 - 0.905)
Cohen L.M.	450	Not surprised	71	39	32	0.379	0.908	0.549	0.831	0.787
Conen L.W.	450	Surprised	379	64	315	(0.285 - 0.480)	(0.872 - 0.936)	(0.447 - 0.648)	(0.808 - 0.852)	(0.746 - 0.824)
Moss A.H.	147	Not surprised	34	10	24	0.455	0.808	0.294	0.894	0.755
WOSS A.H.	147	Surprised	113	12	101	(0.244 - 0.678)	(0.728 - 0.873)	(0.189 - 0.427)	(0.851 - 0.926)	(0.677 - 0.822)
	3140 (ICU stay)	Not surprised	153	98	55	0.363	0.981	0.641	0.942	0.928
	3140 (ICO stay)	Surprised	2987	172	2815	(0.306 - 0.423)	(0.975 - 0.986)	(0.568 - 0.708)	(0.937 - 0.947)	(0.918 - 0.937)
Ros M.M.	3140 (Hospital	Not surprised	252	148	104	0.378	0.962	0.587	0.916	0.889
nos IVI.IVI.	stay)	Surprised	2888	244	2644	(0.329 - 0.428)	(0.954 - 0.969)	(0.531 - 0.641)	(0.909 - 0.921)	(0.878 - 0.900)
	3140 (365 days)	Not surprised	609	363	246	0.509	0.899	0.596	0.862	0.810
	3140 (363 days)	Surprised	2531	350	2181	(0.471 - 0.546)	(0.886 - 0.910)	(0.562 - 0.629)	(0.852 - 0.871)	(0.796 - 0.824)
Gulini	170	Not surprised	89	41	48	0.820	0.600	0.461	0.889	0.665
J.E.H.M.B	170	Surprised	81	9	72	(0.686 - 0.914)	(0.507 - 0.688)	(0.398 - 0.524)	(0.813 - 0.936)	(0.588 - 0.7350)
Haydar S.A.	6122	Not surprised	918	107	811	0.682	0.864	0.117	0.990	0.859
Haydai S.A.	0122	Surprised	5204	50	5154	(0.603 - 0.754)	(0.855 - 0.873)	(0.104 - 0.130)	(0.988 - 0.992)	(0.850 - 0.868)
Carmen J.	49	Not surprised	20	7	13	0.778	0.675	0.350	0.931	0.694
Carmen v.	43	Surprised	29	2	27	(0.400 - 0.972)	(0.509 – 0.814)	(0.234 - 0.487)	(0.796 – 0.979)	(0.546 - 0.818)
Barnes S.	231	Not surprised	95	11	84	0.786	0.613	0.116	0.978	0.623
Darries o.	201	Surprised	136	3	133	(0.492 - 0.953)	(0.545 - 0.678)	(0.087 - 0.153)	(0.942 - 0.992)	(0.558 - 0.686)
	114 (Consultants)	Not surprised	64	33	31	0.846	0.587	0.516	0.880	0.675
	,	Surprised	50	6	44	(0.695 - 0.941)	(0.467 - 0.699)	(0.441 - 0.590)	(0.774 - 0.940)	(0.581 - 0.760)
	128 (Junior	Not surprised	65	33	32	0.750	0.619	0.508	0.825	0.664
	Doctors)	Surprised	63	11	52	(0.597 - 0.868)	(0.507 - 0.723)	(0.428 - 0.587)	(0.734 - 0.890)	(0.575 - 0.745)
Straw S.	89 (Heart Failure	Not surprised	60	27	33	0.900	0.441	0.450	0.897	0.596
	Nurses)	Surprised	29	3	26	(0.735 - 0.979)	(0.312 - 0.576)	(0.388 - 0.514)	(0.740 - 0.963)	(0.496 - 0.698)
	123 (Staff Nurses)	Not surprised	50	29	21	0.659	0.734	0.580	0.795	0.707
	,	Surprised	73	15	58	(0.501 – 0.795)	(0.623 - 0.827)	(0.475 - 0.678)	(0.715 – 0.856)	(0.619 - 0.786)
	119 (2 or more)	Not surprised	62	26	36	0.818	0.577	0.500	0.860	0.659

		Surprised	57	8	49	(0.673 - 0.918)	(0.465 - 0.683)	(0.429 - 0.571)	(0.761 - 0.922)	(0.570 - 0.740)
	120 (2 or more)	Not surprised	54	31	23	0.705	0.729	0.574	0.827	0.721
	129 (3 or more)	Surprised	75	13	62	(0.548 - 0.832)	(0.622 - 0.820)	(0.475 - 0.667)	(0.748 - 0.885)	(0.635 - 0.796)
	120 (4 'po'o')	Not surprised	18	14	4	0.318	0.953	0.778	0.730	0.736
	129 (4 'no's')	Surprised	111	30	81	(0.186 - 0.476)	(0.884 - 0.987)	(0.551 - 0.909)	(0.687 - 0.769)	(0.652 - 0.810)
	129 (all 'no')	Not surprised	35	23	12	0.523	0.859	0.657	0.777	0.744
	129 (all 110 )	Surprised	94	21	73	(0.367 - 0.675)	(0.766 - 0.925)	(0.514 - 0.777)	(0.716 - 0.827)	(0.660 - 0.817)
	20 (Diabatas)	Not surprised	20	9	11	0.900	0.500	0.450	0.917	0.625
	32 (Diabetes)	Surprised	12	1	11	(0.555 - 0.998)	(0.282 - 0.718)	(0.339 - 0.566)	(0.621 - 0.987)	(0.437 - 0.789)
	00 (!:-!+)	Not surprised	44	24	20	0.828	0.623	0.546	0.868	0.695
	82 (no diabetes)	Surprised	38	5	33	(0.642 - 0.942)	(0.479 - 0.752)	(0.450 - 0.638)	(0.743 - 0.938)	(0.584 - 0.792)
	OF (ILID)	Not surprised	20	14	6	0.824	0.667	0.700	0.800	0.743
	35 (IHD)	Surprised	15	3	12	(0.566 - 0.962)	(0.450 - 0.867)	(0.539 - 0.823)	(0.577 - 0.922)	(0.567 - 0.875)
	70 (no ILID)	Not surprised	44	19	25	0.864	0.562	0.432	0.914	0.646
	79 (no IHD)	Surprised	35	3	32	(0.651 – 0.971)	(0.424 - 0.693)	(0.352 - 0.516)	(0.784 - 0.969)	(0.530 - 0.750)
	10 (aCED 20)	Not surprised	17	10	7	0.909	0.000	0.588	0.000	0.556
	18 (eGFR < 30)	Surprised	1	1	0	(0.587 - 0.998)	(0.000 - 0.410)	(0.542 - 0.633)	0.000	(0.308 - 0.785)
	96 (eGFR > 30)	Not surprised	47	23	24	0.821	0.647	0.489	0.898	0.698
	96 (eGFR > 30)	Surprised	49	5	44	(0.631 – 0.939)	(0.522 - 0.759)	(0.399 - 0.580)	(0.796 - 0.952)	(0.596 - 0.788)
Mahes A.	301	Not surprised	136	25	111	0.807	0.589	0.184	0.964	0.611
Maries A.	301	Surprised	165	6	159	(0.625 - 0.926)	(0.528 - 0.648)	(0.152 - 0.220)	(0.928 - 0.982)	(0.554 - 0.667)
Lin C.A.	840	Not surprised	214	32	182	0.615	0.768	0.149	0.968	0.759
LIII C.A.	040	Surprised	626	20	606	(0.483 - 0.748)	(0.739 - 0.798)	(0.101 - 0.196)	(0.954 - 0.982)	(0.730 - 0.788)
Um Y.W.	300	Not surprised	118	25	93	0.833	0.662	0.212	0.973	0.679
GIII T.W.	300	Surprised	182	5	177	(0.653 - 0.944)	(0.603 - 0.718)	(0.176 - 0.253)	(0.942 - 0.988)	(0.623 - 0.731)
Coffnoy	191	Not surprised	56	20	36	0.571	0.769	0.357	0.889	0.733
Gaffney L.	191	Surprised	135	15	120	(0.394 - 0.737)	(0.695 - 0.833)	(0.270 - 0.455)	(0.844 - 0.922)	(0.664 - 0.794)

Sensitivity (the ability of the prompt to successfully identify those patients who were dying); specificity (the ability of the prompt to successfully identify those who were not dying); positive predictive value (the proportion of patients who died when the respondent predicted death); negative predictive value (the proportion of the patients who survived when the respondent predicted survival); accuracy (the proportion of correct predictions amongst all cases).

Table 4: Newcastle-Ottawa scale for included studies.

First author	Representative ness of exposed cohort	Selection of non-exposed cohort	Ascertainment of exposure	Outcome of interest accounted for	Age/gender	Other factors	Ascertainment of outcomes	Length of follow-up	Adequacy of follow-up	Quality of study
Rice J.	*	*	*	*	*		*	*	*	Good
lkari T.	*	*	*	*	*	*		*	*	Good
Dogbey D.M.	*	*	*	*	*	*	*	*	*	Good
Moor C.C.	*	*	*	*	*	*	*	*	*	Good
Gonzalez- Jaramillo V.	*	*	*	*	*	*	*	*	*	Good
Tripp D.	*	*	*	*	*	*	*	*	*	Good
Flierman I.	*	*	*	*			*	*	*	Poor
Kim S.H.		*	*	*		*		*	*	Good
Ouchi K.	*	*	*	*	*	*	*	*		Good
Ermers D.J.M.	*	*	*	*			*	*	*	Poor
Yarnell C.	*	*	*	*	*	*	*	*	*	Good
Van Wijmen M.P.S.	*	*	*	*	*	*	*	*	*	Good
Ramer S.J.	*	*	*	*	*	*	*	*	*	Good
Lai CF.		*	*	*	*	*			*	Poor
Rauh L.A.	*	*	*	*	*	*	*	*	*	Good
Verhoef M.J.	*	*	*	*			*	*	*	Poor
Maes H.	*	*	*	*	*	*	*	*	*	Good
Yen YF.	*	*	*	*	*	*	*		*	Good
Aaronson E.L.	*	*	*	*		*	*		*	Good
Schmidt R.J.	*	*	*	*	*	*	*	*	*	Good
Lakin J.R.	*	*	*	*	*	*	*	*	*	Good

Veldhoven C.M.M.	*	*	*	*			*		*	Poor
Burke K.	*	*	*	*	*	*	*		*	Good
Ouchi K.	*	*	*	*			*	*	*	Poor
Liyanage T.	*	*	*	*			*	*	*	Poor
Mitchell G.K.	*	*	*	*			*		*	Poor
Ebke M.	*	*	*	*	*	*		*	*	Good
Mudge A.M.	*	*	*	*			*	*	*	Poor
Salat H.	*	*	*	*	*	*	*	*	*	Good
Malhotra R.	*	*	*	*				*	*	Poor
Hadique S.	*	*	*	*	*	*	*	*	*	Good
Gomez-Batiste X.	*	*	*	*	*	*	*	*	*	Good
Javier A.D.	*	*	*	*	*	*	*	*	*	Good
Amro O.W.	*	*	*	*	*	*	*	*	*	Good
Lakin J.R.	*	*	*	*	*	*	*		*	Good
Hamano J.		*	*	*	*	*		*	*	Good
Feyi K.	*	*	*	*	*	*		*	*	Good
Moroni M.	*	*	*	*	*	*	*	*	*	Good
O'Callaghan A.	*	*	*	*	*	*	*	*	*	Good
Da Silva Gane M.	*	*	*	*	*	*	*	*	*	Good
Pang WF.	*	*	*	*			*	*	*	Poor
Haga K.	*	*	*	*			*	*	*	Poor
Fenning S.	*	*	*	*	*	*	*	*		Good
Moss A.H.	*	*	*	*	*	*	*	*	*	Good
Cohen L.M.	*	*	*	*	*	*		*	*	Good

Moss A.H.	*	*	*	*	*	*		*	*	Good
Ros M.M.	*	*	*	*	*	*	*	*	*	Good
Gulini J.E.H.M.B.	*	*	*	*	*	*	*	*	*	Good
Haydar S.A.	*	*	*	*	*	*	*			Poor
Carmen J.	*	*	*	*				*	*	Poor
Barnes S.	*	*	*	*	*	*	*			Poor
Straw S.	*	*	*	*	*	*	*	*	*	Good
Mahes A.	*	*	*	*	*	*	*	*	*	Good
Lin C.A.	*	*	*	*	*	*	*	*	*	Good
Um Y.W.	*	*		*	*	*	*	*	*	Good
Gaffney L.	*	*	*	*	*	*	*	*	*	Good
* denotes a study h	naving met a particula	ar quality item, scorin	g one point. The max	rimum points a study	can score is nine, an	d the minimum is zer	о.		1	