Supplementary Table 1. Performance of ChatGPT and GPT-4 in virtual scenarios regarding renal transplantation

	Question Description	Assigned Label	ChatGPT/GPT-4 Label	ChatGPT/GPT- 4 Performance
1.	Clinical predictors of graft survival	Prognosis	GI/Treatment	A/A
2.	Sources of renal grafts	GI	GI/GI	A/D
3.	Case presentation/Needed genetic test	Diagnosis	Diagnosis/Diagnosis	D/A
4.	Image modality needed	Diagnosis	Diagnosis/Diagnosis	A/A
5.	Case presentation/ Appropriate Treatment	Treatment	Treatment/Treatment	A/A
6.	Case presentation/ Appropriate Treatment	Treatment	Treatment/Treatment	D/A
7.	Case presentation/Risk of infection development	Prognosis	Diagnosis/Treatment	A/A
8.	Case presentation/Immunosuppressive side effects	GI	Treatment/Treatment	A/A
9.	Criteria of donor donation	GI	GI/GI	D/D
10.	Side effects of certain immunosuppressives	GI	GI/Treatment	A/A
11.	Case presentation/Risk of disease relapse	A/A		
12.	Case presentation/Risk of disease relapse Prognosis Diagnosis/Treatment Contraindications of transplantation GI Diagnosis/Diagnosis			
13.	Differences between immunosuppressive drugs	GI/GI	A/A	
14.	Case Presentation/Graft rejection DD	DD	DD/Treatment	A/A
15.	Case Presentation/Diagnostic findings of	Diagnosis	Diagnosis/Diagnosis	A/A
	disease			
16.	16. Case Presentation/Diagnostic findings of disease		Diagnosis/Diagnosis	A/D
17.	Mechanism of GVHD	GI	GI/Diagnosis	A/A
18.	18. Pathogens associated with certain infection		Diagnosis/Diagnosis	A/A
19.			GI/GI	A/A
20.	1 , 0		Diagnosis/GI	D/A
21.	1		Prognosis/GI	D/A
22.	Aitiology of ESKD	Prognosis GI	Diagnosis/GI	A/A
23.	Mortality rate of dialysis	Prognosis	Prognosis/GI	D/D
24.	Indications for native nephrectomy	Treatment	Treatment/Treatment	A/A
25.	Graft Survival Rates	Prognosis	Prognosis/Prognosis	D/A
26.	Side effects of certain immunosuppressives	GI	Treatment/GI	D/A
27.	Indications of pediatric renal transplantation	GI	Treatment/Treatment	D/A
28.	Live renal donor characteristics	GI	Treatment/GI	A/A
29.	Effect of certain treatment	Treatment	Treatment/Treatment	D/A
30.	Graft survival rates in deceased transplantation	Prognosis	Diagnosis/Diagnosis	A/A
31.	Contraindications of renal transplantation	GI	Diagnosis/Treatment	D/A
32.	Treatment options for acute rejection	Treatment	Treatment/Treatment	D/D
33.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	A/A
34.	Incidence of disease relapse	Prognosis	Prognosis/Prognosis	A/D
35.	Contraindications of renal transplantation	GI	Diagnosis/Diagnosis	D/D
36.	Risk factors for disease development	Prognosis	Prognosis/DD	D/A
37.	Cardiovascular disease development risk	Prognosis	Prognosis/DD	A/A
38.	Prognostic factors of survival	Prognosis	Prognosis/Prognosis	A/A
39.	Immunosuppressive drug mechanism	GI	Treatment/GI	D/A
40.	Immunosuppressive drug mechanism	GI	GI/GI	A/A

41.	Immunosuppressive drug mechanism	GI	Treatment/GI	A/A		
42.	Case presentation/DD of patient symptoms	DD	DD/Diagnosis	A/A		
43.	Case presentation/Diagnostic findings of disease	Diagnosis	GI/GI	A/A		
44.	Case presentation/Investigation of patient symptoms	Diagnosis	Diagnosis/Treatment	A/A		
45.	Intraoperative therapeutic options	Treatment	Treatment/Treatment	A/A		
46.	Indications of transplant nephrectomy	GI	DD/Treatment	D/A		
47.	Immunosuppression medication after transplantation	Treatment	Treatment/Treatment	A/A		
48.	Immunosuppression medication during rejection	Treatment	Treatment/Treatment	A/A		
49.	Risk of disease relapse	Prognosis	Prognosis/Prognosis	D/D		
50.						
51.	Immunosuppression medication after graft loss	Treatment	Treatment/Treatment	A/A A/A		
52.	Case presentation/DD of graft failure	DD	Diagnosis/Diagnosis	D/A		
53.	Case presentation/Treatment following graft	Treatment	Treatment/Treatment	D/A D/D		
	failure		·			
54.	Case presentation/Risk of complication	Prognosis	GI/Prognosis	A/A		
55.	Case presentation/Next step in treatment	Treatment	Treatment/Treatment	A/A		
56.	Sides of anastomoses	GI	Treatment/Treatment	A/A		
57.	Case presentation/DD of patient symptoms	DD	DD/Treatment	A/A		
58.	Case presentation/Criteria for recipient selection	GI	GI/Treatment	A/A		
59.	Case presentation/Treatment options	Treatment	Treatment/Treatment	A/A		
60.	Case presentation/Treatment options	Treatment	Treatment/Treatment	D/D		
61.	Case presentation/Factors affecting graft function	Prognosis	Prognosis/Prognosis	A/D		
62.	Case presentation/Treatment options	Treatment	Treatment/Treatment	D/A		
63.	Case presentation/Further diagnostic tests	Diagnosis	Diagnosis/Diagnosis	A/A		
64.	Anatomic variations of graft vessels	GI	GI/GI	A/A		
65.	Most common complication of anastomosis	GI	GI/Treatment	A/A		
66.	Case presentation/Next step in treatment	Treatment	Prognosis/Diagnosis	A/A		
67.	Case presentation/Next step in treatment	Treatment	DD/Diagnosis	D/A		
68.	Obesity and transplantation	GI	Diagnosis/GI	A/A		
69.	Case presentation/Counsel for potential complication	Prognosis	Diagnosis/GI	A/A		
70.	Case presentation/Preoperative diagnostic checks	Diagnosis	DD/Diagnosis	A/A		
71.	Case presentation/DD of patient symptoms	DD	DD/Diagnosis	A/A		
72.	Case presentation/DD of patient symptoms	DD	DD/DD	D/A		
73.	Case presentation/DD of patient symptoms	DD	DD/DD	A/D		
74.	Case presentation/Symptoms of a given	Diagnosis	Diagnosis/Diagnosis	A/A		
	disease			,		
75.	Case presentation/DD of patient symptoms	DD	Diagnosis/DD	A/A		
76.	Case presentation/Next step in treatment	Treatment	Treatment/Treatment	A/D		
77.	Case presentation/DD of patient symptoms	DD	Diagnosis/Diagnosis	A/A		
78.	Case presentation/DD of patient symptoms	DD	DD/Diagnosis	A/A		
79.	Case presentation/Treatment options	Treatment	Treatment/Treatment	A/A		

80. Case presentation/Next step in treatment Treatment Treatment/Treatment 81. Case presentation/DD of patient symptoms DD Diagnosis/Dia	
82. Case presentation/Treatment options 83. Case presentation/DD of patient symptoms 84. Case presentation/Treatment options 85. Case presentation/Appropriate diagnostic test 86. Case presentation/Treatment options 87. Case presentation/Appropriate diagnostic test 88. Case presentation/Appropriate diagnostic test 88. Case presentation/Treatment options 88. Case presentation/Treatment options 89. Case presentation/DD of patient symptoms 90. Case presentation/Treatment options Treatment Diagnosis/Treatment Diagnosis/Treatment Diagnosis/Treatment Diagnosis/Treatment Diagnosis/Treatment Diagnosis/Treatment Diagnosis/Diagnosis	ent A/A
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84. Case presentation/Treatment options Treatment Treatment/Treatment 85. Case presentation/Appropriate diagnostic test Diagnosis Diagnosis/Diagnosis 86. Case presentation/Treatment options Treatment Treatment/Treatment 87. Case presentation/Appropriate diagnostic test Diagnosis Diagnosis/Diagnosis 88. Case presentation/Treatment options Treatment Diagnosis/Treatment 89. Case presentation/DD of patient symptoms DD DD/DD 90. Case presentation/Treatment options Treatment Treatment/Treatment 91. Case presentation/DD of patient symptoms DD DD/Diagnosis	ent D/A
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	D/D
92. Case presentation/Treatment options Treatment Treatment/Treatment	ent A/A
93. Case presentation/DD of patient symptoms DD Diagnosis/Diagno	sis A/A
94. Case presentation/Immunosuppressive Treatment Treatment/Treatment	ent A/A
management	
95. Case presentation/DD of patient symptoms DD Diagnosis/Diagno	sis A/D
96. Case presentation/Family of certain virus GI Diagnosis/Diagno	sis A/A
97. Case presentation/DD of patient symptoms DD DD/Diagnosis	A/A
98. Case presentation/Risk factors of given Prognosis GI/Diagnosis	A/A
complication	
99. Case presentation/Next step in treatment Treatment Diagnosis/Treatm	
100. Case presentation/Next step in treatment Treatment Treatment/Treatment/	ent D/A
101. Case presentation/DD of patient symptoms DD Diagnosis/Diagno	sis A/A
102. Case presentation/DD of patient symptoms DD Diagnosis/Diagno	sis A/A
103. CMV donor/recipient status and risk of Prognosis GI/Diagnosis	A/A
infection	
104. Case presentation/Reasons for specific Treatment Treatment/Treatm	ent A/A
treatment	
105. Case presentation/Appropriate diagnostic test Diagnosis DD/Diagnosis	A/A
106. Certain infection information GI Diagnosis/GI	A/A
107. Risk factors of certain complication Prognosis Diagnosis/DD	A/A
108. Case presentation/DD of patient symptoms DD Diagnosis/Diagno	sis D/D

Abbreviations. A: Agreement, **CMV:** cytomegalovirus, **D:** disagreement, **DD:** differential diagnosis, **ESKD:** end-stage kidney disease, **GI:** general information, **GVHD:** graft-versushost disease

Supplementary Table 2. Performance of ChatGPT and GPT-4 in virtual scenarios regarding liver transplantation

Ī		Question Description	Assigned	ChatGPT/GPT-4	ChatGPT/GPT-
			Label	Label	4 Performance
	1.	Contraindication of transplantation	GI	Diagnosis/Treatment	D/D
	2.	Indications of transplantation	GI	Diagnosis/Diagnosis	A/A
	3.	Treatment of rejection	Treatment	Treatment/Treatment	D/D
	4.	Treatment options for variceal hemorrhage	Treatment	Treatment/Treatment	D/D
	5.	Statements regarding treatment options	Treatment	Treatment/Treatment	D/A
	6.	Indication of certain treatment	Treatment	Treatment/Treatment	D/A

7.	Statements regarding treatment options	Treatment	GI/Treatment	D/D
8.	Statements regarding treatment options	Treatment	Treatment/Treatment	D/A
9.	Indication of certain treatment	Treatment	Treatment/Treatment	D/A
10.	Glomerular filtration rate information	GI	GI/Diagnosis	A/A
11.	Glomerular filtration rate information	GI	GI/Diagnosis	A/A
12.	Symptoms of cirrhosis	Diagnosis	DD/DD	A/A
13.	Treatment options for hepatorenal syndrome	Treatment	Treatment/Treatment	D/D
14.	Criteria of recipients in transplantation	GI	GI/Treatment	D/A
15.	Diagnostic tests for hepatopulmonary syndrome	Diagnosis	Diagnosis/Diagnosis	A/A
16.	Statements regarding treatment options	Treatment	GI/Treatment	D/D
17.	Response to certain treatment	Treatment	GI/Treatment	D/D
18.	Prognostic factors of graft function	Prognosis	Prognosis/Prognosis	D/A
19.	Prognostic factors of graft function	Prognosis	Prognosis/Prognosis	D/A
20.	Statements regarding alcohol-related cirrhosis	GI	GI/Diagnosis	D/A
21.	Definition of transplantation-related term	GI	GI/GI	A/A
22.	Performance of MELD	GI	DD/DD	D/D
23.	Organ allocation criteria	GI	GI/GI	D/D
24.	Prognostic factors of disease relapse	Prognosis	DD/DD	A/A
25.	Prognostic factors of disease relapse	Prognosis	Diagnosis/Diagnosis	D/D
26.	Statements regarding treatment options	Treatment	GI/Treatment	D/D
27.	Pathogenesis of disease	GI	Diagnosis/GI	D/D
28.	Appropriate diagnostic test for NASH	Diagnosis	Diagnosis/Diagnosis	A/A
29.	Indications for transplantation	GI	Diagnosis/Diagnosis	D/A
30.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	A/A
31.	Appropriate treatment of a disease	Treatment	Treatment/Treatment	A/A
32.	Diagnostic findings of disease	Diagnosis	DD/Diagnosis	D/D
33.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	D/A
34.	Indications for transplantation	GI	Treatment/Treatment	A/A
35.	Indications for transplantation	GI	Treatment/Treatment	D/D
36.	Ways of expanding liver grafts pool	GI	GI/Treatment	A/A
37.	Case presentation/ Next diagnostic test	Diagnosis	Diagnosis/Diagnosis	A/A
38.	Indications for transplantation	GI	Treatment/Treatment	D/D
39.	Treatment options of CCA	Treatment	Diagnosis/Treatment	D/D
40.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	A/A
41.	Appropriate imaging modality of disease	Diagnosis	Diagnosis/Diagnosis	D/A
42.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	D/D
43.	Immunosuppressive drugs characteristics	Treatment	Treatment/Treatment	A/D
44.	Contraindications for transplantation	GI	Treatment/Diagnosis	D/A
45.	Appropriate use of immunosuppressive drugs	Treatment	Treatment/Treatment	A/A
46.	GI of living-donor liver transplantation	GI	GI/GI	D/D
47.	GI of living-donor liver transplantation	GI	GI/GI	D/D
48.	Risk of disease relapse	Prognosis	DD/Prognosis	D/A
49.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	A/A
50.	Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	D/D
51.	Survival of patients on the waiting list	Prognosis	Prognosis/GI	A/A
52.	Novel treatment of disease	Treatment	GI/GI	A/A
53.	Risk factors of mortality of cirrhosis	Prognosis	Diagnosis/GI	D/D
54.	Extended criteria of transplantation	GI	Treatment/GI	D/D
55.	Donor risk index	Prognosis	Prognosis/GI	D/A

56. Definition of Maastricht category GI Diagnosis/GI D/A 57. Definition of ischemia time GI GI/GI D/D 58. Differences in graft survival between diseases Prognosis Prognosis/GI D/D 59. Host of certain pathogen GI Diagnosis/GI A/A 60. Factors affecting transmission GI DD/GI D/D 61. Criteria of organ donors GI Prognosis/GI D/D 62. Preservation solutions GI GI/GI D/D 63. Arterial reconstruction during transplantation GI Treatment/GI A/D 64. Liver function assessment GI Prognosis/GI D/D 65. Surgical treatment options of certain complication Treatment Treatment/GI D/A 66. Arterial reconstruction during transplantation GI Treatment/GI D/A 67. Treatment options of certain complication Treatment Treatment/GI D/A 68. Domino liver transplantation
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75. Preoperative assessment Diagnosis GI/GI A/A 76. Fluid management during transplantation Treatment Treatment/Treatment D/D 77. Transfusion management during transplantation Treatment Treatment/Treatment A/A 78. Treatment options to minimize blood loss Treatment Treatment/Treatment D/A 79. Coagulative status in cirrhosis GI Diagnosis/GI D/D 80. Postoperative liver function assessment Diagnosis Prognosis/Diagnosis A/D
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77.Transfusion management during transplantationTreatmentTreatment / Treatment / TreatmentA/A78.Treatment options to minimize blood lossTreatmentTreatment / Treatment / Treatment / TreatmentD/A79.Coagulative status in cirrhosisGIDiagnosis/GID/D80.Postoperative liver function assessmentDiagnosisPrognosis/DiagnosisA/D
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79. Coagulative status in cirrhosis GI Diagnosis/GI D/D 80. Postoperative liver function assessment Diagnosis Prognosis/Diagnosis A/D
80. Postoperative liver function assessment Diagnosis Prognosis/Diagnosis A/D
Diagnostic findings of diagnos Diagnostic Diagnostic /Diagnostic /
81. Diagnostic findings of disease Diagnosis Diagnosis/Diagnosis A/A
82. Predicting tools of patient survival Prognosis Diagnosis/Diagnosis D/D
83. Appropriate diagnostic test of disease Diagnosis Diagnosis/Diagnosis D/D
84. Immunosuppressive treatment options Treatment Treatment/Treatment D/A
85. FDA drug approval GI GI/GI A/A
86. Immunosuppressive treatment options Treatment Treatment/Treatment A/A
87. Surgical treatment options of certain complications Treatment Treatment Treatment A/D
88. Appropriate imaging modality of disease Diagnosis Diagnosis/Diagnosis A/A
89. Diagnostic findings of disease Diagnosis Diagnosis Diagnosis D/A
90. Risk of persistent biliary complication Prognosis Treatment/Diagnosis A/A
91. Treatment options of certain complication Treatment Treatment/Treatment D/D
92. Treatment options of certain complication Treatment GI/Diagnosis D/D
93. Diagnostic findings of disease Diagnosis GI/Diagnosis A/A
94. Diagnostic findings of disease Diagnosis Diagnosis/Diagnosis A/A
95. Diagnostic findings of disease Diagnosis GI/Diagnosis D/D
96. Diagnostic findings of disease Diagnosis Diagnosis/Diagnosis D/D
97. Risk factors of hypertension development Prognosis Prognosis/Diagnosis D/D
98. Immunosuppressive drug interactions Treatment GI/Treatment D/A
99. Risk factors of fibrosis development Prognosis Diagnosis/Prognosis D/A
99. Risk factors of fibrosis development Prognosis Diagnosis/Prognosis D/A 100 Risk of disease relapse Prognosis Diagnosis/Treatment D/A
100 Risk of disease relapse Prognosis Diagnosis/Treatment D/A

104	Time to a later than the first term of the discussion of the discu	T11	T	D/D	
104	1	Treatment	Treatment/Treatment	D/D A/A	
105	Treatment options for post-transplantation infection	Treatment	Diagnosis/Diagnosis	A/A	
106	Appropriate treatment for certain infection	Treatment	Treatment/Treatment	D/D	
107	Appropriate investigation of certain disease	Diagnosis	Diagnosis/Diagnosis	A/A	
108	Risk of post-transplant cancer development	Prognosis	Prognosis/Prognosis	D/A	
109	Treatment of immunosuppressive drug complication	Treatment	Treatment/Treatment	D/D	
110	Incidence of immunosuppressive drug side effects	Treatment	GI/GI	D/A	
111	Risk factors for post-transplant malignancy	Prognosis	Prognosis/GI	A/A A/A	
112					
113	Risk factor for post -transplant malignancy	Prognosis	Prognosis/Prognosis	A/A A/A	
114	pregnancy				
115		CI	GI/GI	D/A	
	transplantation	GI		-	
116	Immunosuppressive treatment options during pregnancy	GI/GI	D/D		
117		Prognosis	GI/Prognosis	D/A	
118		Diagnosis	Diagnosis/Diagnosis	D/A	
119		Diagnosis	Diagnosis/Diagnosis	D/A	
120	120 Effects of MELD implementation		GI/GI	D/A	
121	Contraindications for transplantation	GI	DD/Treatment	A/A	
122	122 Case presentation/Next diagnostic test		Diagnosis/Diagnosis	A/A	
123	123 Prognostic factors of acute liver failure		Prognosis/Prognosis	D/A	
124	124 Case presentation/Next step in management		Diagnosis/Treatment	D/D	
125	125 Mechanism of action of tacrolimus		GI/GI	A/A	
126	126 Case presentation/Next step in management Tre		Diagnosis/Diagnosis	A/A	
127			GI/Prognosis	A/A	
128			A/A		
129	Case presentation/Next step in management	Diagnosis/Treatment	D/A		
130	Case presentation/Next step in management	Treatment/Treatment	A/A		
131	Case presentation/Treatment options	Treatment/Treatment	A/A		
132	Cytokines associated with allograft tolerance	GI	GI/GI	A/A	
133	Case presentation/Next step in management	Treatment	Treatment/Treatment	D/A	
134	Diagnostic findings of hepatorenal syndrome	Diagnosis	GI/Diagnosis	A/A	
135	Diagnostic findings of portal hypertension	Diagnosis	GI/Diagnosis	D/D	
136	Factors associated with post-liver transplant renal disease	Prognosis	GI/Prognosis	D/D	
137	Case presentation/Factors associated with survival	Prognosis	DD/Diagnosis	D/D	
138		Treatment	Treatment/Treatment	D/D	
139	· · · · · · · · · · · · · · · · · · ·		Treatment/Treatment	A/A	
	management	Treatment	Transfer of the state of the st	/	
140		Treatment	Treatment/Treatment	A/A	
141	, ,	DD	Diagnosis/Diagnosis	A/A	
142	, , ,	GI	GI/GI	D/D	
143		Treatment	Treatment/Treatment	D/D	

Case presentation/Next step in management	Treatment	Treatment/Treatment	A/A
Case presentation/Next step in management	Treatment	Diagnosis/Diagnosis	D/A
Case presentation/Treatment options	Treatment	Treatment/Treatment	D/A
Case presentation/Treatment options	Treatment	Treatment/Treatment	A/D
Case presentation/Treatment options	Treatment	Treatment/Treatment	A/A
Risks associated with immunosuppressive drug use	Prognosis	Prognosis/Prognosis	A/A
Case presentation/Next step in management	Treatment	Treatment/Treatment	D/D
Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	A/A
Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	D/D
Risks associated with use of marginal grafts	Prognosis	Prognosis/Prognosis	D/A
Case presentation/Treatment options	Treatment/Treatment	D/A	
Risk of developing biliary complications	Prognosis	Prognosis/Prognosis	A/A
MELD features	GI	Prognosis/Treatment	D/A
MELD features	GI	Diagnosis/Diagnosis	D/D
Eligibility criteria of transplantation	GI	GI/GI	D/A
Living donor factors associated with graft survival	Prognosis	Prognosis/Prognosis	A/D
Case presentation/Immunosuppressive drug side effects	Treatment	Diagnosis/DD	A/D
Predictive factors of survival	Prognosis	Diagnosis/Diagnosis	A/A
Diagnostic findings of disease	Diagnosis	GI/Diagnosis	A/A
Relation between MELD score and waiting timing	Prognosis	GI/Prognosis	D/A
Aetiology of cirrhosis in children	GI	Diagnosis/Prognosis	A/A
MELD features	GI	GI/GI	D/D
Contraindications for transplantation	GI	Treatment/Treatment	D/A
Statements regarding graft survival	Prognosis	GI/GI	D/D
Child-Pugh score features	GI	Diagnosis/Diagnosis	D/A
Criteria of donor eligibility	GI	DD/GI	D/D
Incidence of complication following transplantation	Prognosis	Treatment/Prognosis	A/A
Factors affecting liver graft survival	Prognosis	GI/Prognosis	D/A
Factors affecting liver graft survival	Prognosis	Prognosis/Treatment	D/A
Surgical outcome statements	Prognosis	Prognosis/Treatment	D/A
Incidence of graft loss	Prognosis	Prognosis/Prognosis	D/D
Performing choledochojejunostomy during transplantation	Treatment	DD/Treatment	A/A
Case presentation/Next diagnostic test	Diagnosis	DD/Diagnosis	D/A
Immunosuppressive drug side effects	Treatment	Diagnosis/Diagnosis	D/D
Diagnostic findings of disease	Diagnosis	Diagnosis/Diagnosis	D/A
Risks factors associated with chronic rejection	Prognosis	Prognosis/Prognosis	A/D
Statements regarding patient survival	Prognosis	GI/Prognosis	D/D
Milan criteria	GI	Diagnosis/Diagnosis	D/D
Risk factors of complication following transplantation	Prognosis	GI/Diagnosis	D/A
Risk factors of complication following transplantation	Prognosis	Prognosis/Prognosis	A/A
Risk factors of complication following transplantation	Prognosis	Prognosis/DD	D/A
	Case presentation/Treatment options Case presentation/Treatment options Risks associated with immunosuppressive drug use Case presentation/Next step in management Diagnostic findings of disease Diagnostic findings of disease Risks associated with use of marginal grafts Case presentation/Treatment options Risk of developing biliary complications MELD features MELD features Eligibility criteria of transplantation Living donor factors associated with graft survival ase presentation/Immunosuppressive drug side effects Predictive factors of survival Diagnostic findings of disease elation between MELD score and waiting timing Aetiology of cirrhosis in children MELD features Contraindications for transplantation Statements regarding graft survival Child-Pugh score features Criteria of donor eligibility Incidence of complication following transplantation Factors affecting liver graft survival Surgical outcome statements Incidence of graft loss Performing choledochojejunostomy during transplantation Case presentation/Next diagnostic test Immunosuppressive drug side effects Diagnostic findings of disease Risks factors associated with chronic rejection Statements regarding patient survival Milan criteria Risk factors of complication following transplantation	Case presentation/Treatment options Case presentation/Treatment options Risks associated with immunosuppressive drug use Case presentation/Next step in management Diagnostic findings of disease Diagnosis Diagnostic findings of disease Diagnosis Risks associated with use of marginal grafts Case presentation/Treatment options Treatment Risk of developing biliary complications Risk of developing biliary complications MELD features GI MELD features GI Eligibility criteria of transplantation Living donor factors associated with graft survival ase presentation/Immunosuppressive drug side effects Predictive factors of survival Diagnostic findings of disease Prognosis Diagnostic findings of disease Predictive factors of survival Diagnostic findings of disease Prognosis Aetiology of cirrhosis in children GI MELD features GI Contraindications for transplantation GI Statements regarding graft survival Prognosis Child-Pugh score features GI Criteria of donor eligibility GI Incidence of complication following transplantation Factors affecting liver graft survival Prognosis Factors affecting liver graft survival Prognosis Prognosis Performing choledochojejunostomy during transplantation Case presentation/Next diagnostic test Diagnostic findings of disease Risks factors associated with chronic rejection Statements regarding patient survival Prognosis Risk factors of complication following transplantation Risk factors of complication following	Case presentation/Treatment options Case presentation/Treatment options Case presentation/Treatment options Case presentation/Treatment options Case presentation/Next step in management Diagnostic findings of disease Diagnosis Diagnosis (Diagnosis Diagnosis Diagnosis Diagnosis) Diagnostic findings of disease Diagnosis Case presentation/Treatment options MELD features CI Diagnosis/Prognosis MELD features CI Diagnosis/Diagnosis CI/GI Cliving donor factors associated with graft survival Case presentation/Immunosuppressive drug side effects Predictive factors of survival Case presentation/Immunosuppressive drug side effects Predictive factors of survival Case presentation/Immunosuppressive drug side effects Predictive factors of survival Contraindications for transplantation Contraindications for transplantation Contraindications for transplantation Child-Pugh score ead waiting timing Criteria of donor eligibility CI Contraindication following transplantation Factors affecting liver graft survival Prognosis Criteria of donor eligibility CI Contraindication following transplantation Case presentation/Next diagnostic test Diagnosis (Prognosis CI/Prognosis Prognosis/Prognosis CI/Prognosis C

185	Risk factors of complication following transplantation	Prognosis	Prognosis/Diagnosis	A/A
186	Case presentation/Treatment options	Treatment	Treatment/Treatment	A/A

Abbreviations. A: agreement, CCA: cholangiocarcinoma, D: disagreement, DD: differential diagnosis, FDA: food and drug administration, GI: general information, HBV: hepatitis B infection, MELD: model for end-stage disease, NASH: non-alcoholic steatohepatitis

Supplementary Table 3. Performance comparison of chatGPT vs GPT-4 when factoring for specific tasks in published case reports

Type of Task	Overall	Overall GPT-4	chatGPT Renal	GPT-4 renal	chatGPT liver	GPT-4 liver
	chatGPT	agreement	Transplantation	transplantation	Transplantation	transplantation
	agreement	level	agreement level	agreement	agreement level	agreement
	level			level		level
DD that	A: 11/18	A: 16/18	A: 6/9 (66.7%)	A: 8/9 (88.9%)	A: 5/9 (55.6%)	A: 8/9 (88.9%)
includes final	(61.1%)	(88.9%)	PA: 1/9 (11.1%)	PA: 1/9 (11.1%)	PA: 0/9 (0%)	PA: 0/9 (0%)
diagnosis	PA: 1/18 (5.6%)	PA: 1/18 (5.6%)				
Final diagnosis	A: 6/18 (33.3%)	A: 14/18	A: 5/9 (55.6%)	A: 8/9 (88.9%)	A: 1/9 (11.1%)	A: 6/9 (66.7%)
prediction	PA: 1/18 (5.6%)	(77.8%)	PA: 0/9 (0%)	PA: 0/9 (0%)	PA: 1/9 (11.1%)	PA: 1/9 (11.1%)
		PA: 1/18 (5.6%)				
Appropriate	A: 5/10 (50%)	A: 8/10 (80%)	A: 3/7 (42.9%)	A: 6/7 (85.7%)	A: 2/3 (66.7%)	A: 2/3 (66.7%)
next diagnostic	PA: 3/10 (30%)	PA: 1/10 (10%)	PA: 3/7 (42.9%)	PA: 1/7 (14.3%)	PA: 0/3 (0%)	PA: 0/3 (0%)
test						

Appropriate	A: 9/15 (60%)	A: 11/15	A: 4/4 (100%)	A: 4/4 (100%)	A: 5/11 (45.5%)	A: 7/11 (63.6%)
treatment	PA: 6/15 (40%)	(73.3%)	PA: 0/4 (0%)	PA: 0/4 (0%)	PA: 6/11	PA: 3/11
		PA: 3/15 (20%)			(55.5%)	(27.3%)
Prediction of	A: 1/2 (50%)	A: 2/2 (100%)	A: 0/0 (0%)	A: 0/0 (%)	A: 1/2 (50%)	A: 2/2 (100%)
prognosis	PA: 0/2 (0%)	PA: 0/2 (0%)	PA: 0/0 (0%)	PA: 0/0 (%)	PA: 0/2 (0%)	PA: 0/2 (%)

Abbreviations. DD: differential diagnosis, PA: partial agreement

Supplementary Table 4. Unpublished department cases on liver transplantation

Case ID	Case Summary
1	We present the case of a 51-year-old male, renal transplant patient, admitted with refractory ascites. The patient has a history of autosomal dominant polycystic kidney disease (ADPKD), which led to chronic kidney disease (CKD) requiring hemodialysis for the past 10 years. Six months prior, he underwent a left nephrectomy as part of his management for ADPKD. On evaluation, an abdominal computed tomography (CT) scan revealed multiple liver cysts. Initial investigations raised suspicion of malignancy due to elevated tumor markers, including CA125 at 151.1 IU/ml and CA19.9 at 39.9 IU/ml. Notably, the patient resides on an island with a significant population of immigrants from the Middle East.
2	A 46-year-old woman was admitted for a deceased donor kidney transplantation. Regarding her end stage kidney disease, it was secondary to FSGS. The patient was on dialysis via a left subclavian line. Also, she was on peritoneal dialysis from 2020 to 2023. The patient had a history of anaemia and was on epoetin and iron supplements. The patient hard hyperparathyroidism secondary to end stage renal disease. Also, she had an aneurysm over the anterior cerebral artery measuring 1.5 millimetres. The patient had hidradenitis suppurativa. The rest of your medical history includes a thrombose an infected tunnelled line anxiety and depression and a history of subsegmental pulmonary embolism. Regarding her previous surgical history the patient had an insertion and removal of PD catheter and laparoscopic excision of the right ovarian cyst. Her preoperative iliac vessel ultrasound hard and unremarkable findings. The patient had an uncomplicated renal transplantation from a deceased donor and was discharged on day 6 post operatively. On day 10 at her home the patient had an episode of chest pain radiating to the left arm shortness of breath and palpitations that lasted for 10 minutes. Here urine output remained stable.
3	A 33-year-old woman is admitted as a candidate for a deceased donor renal transplantation. The patient had in stage renal disease due to malignant hypertension. From her past medical history, the patient suffered from hypercholesterolaemia, chronic mild thrombocytopenic

5	A 16-year-old male patient was admitted for a deceased donor kidney transplantation due to end-stage renal failure secondary to nephrotic syndrome. He had been on hemodialysis for one year, followed by four years of peritoneal dialysis, with no residual urine output. His medical history included four episodes of peritonitis, hypertension, and PRES (posterior reversible encephalopathy syndrome), from which he had fully recovered. The ureterovesical anastomosis was performed using the Taguchi technique. Post-transplantation, the patient initially produced 60–70 mL of urine per hour. However, extensive macroscopic hematuria was observed. By the morning of the first postoperative day, it was noted that the patient had no urine output for several hours.
4	Here preoperative iliac vessel ultrasound had unremarkable findings. The patient underwent a renal transplantation with renal single vessels being anastomosed to the external iliac vessels. A 36-year-old male was admitted as a candidate for a deceased donor renal transplantation. The patient had end stage venal disease due to IGA nephropathy, was on peritoneal dialysis between 2013 and 2015 when he had a failed renal transplantation with a graft nephrectomy on day 5 due to renal vein thrombosis. The pre transplant anticoagulation plan you too possible antiphospholipid syndrome was initially unfractionated heparin followed by warfarin treatment for three months. The renal transplant was of high immunological risk in the context of light delisting with Campath induction. During benching an equally sized 2nd renal vein was ligated. Two renal arteries were anastomosed separately to the external iliac artery and one smaller lower artery was spatulated. The perfusion was initially good but was sub optimal 20 minutes following perfusion. An intraoperative Doppler was conducted showing good perfusion with no congestion. A post operative transplant ultrasound was performed that had the following findings: the kidney's upper pole could not be visualised. The rest of the kidney demonstrated satisfactory vascularity. The main renal artery and the main renal vein were not confidently identified. Downstream renal artery and renal vein had normal spectral waveforms. The patient had a delayed graph function with minimal urine output and required a hemodialysis session. No heparin was prescribed or administrated at this point. Overnight the patient complaint of pain at the graft side and catheter pain. The patient's lactate was up-trending.
	disorder with baseline platelets around 120 to 140,000. Also, she had priorly mild left ventricular systolic dysfunction that has improved.

Supplementary Table 5. Unpublished department cases on liver transplantation

Case ID	Case Summary
1	A 56-year-old male with a history of alcohol-related cirrhosis underwent a liver transplantation. Following the procedure, the
	patient was transferred to the intensive care unit, where he remained stable and was moved to the surgical ward after 24 hours. His
	immediate postoperative course was uneventful, and he was discharged home on postoperative day seven with a surgical drain in
	situ for ongoing fluid management. Eight days after discharge, the patient presented to the hospital with acute right-sided
	abdominal pain. On clinical evaluation, he was noted to have an elevated white blood cell count and a significantly raised C-
	reactive protein,

2	A 43-year-old male with a history of cirrhosis secondary to Wilson's disease is being evaluated as a potential candidate for liver transplantation. The patient's medical history is notable for multiple hospitalizations due to variceal and upper gastrointestinal bleeding. At the time of assessment, the patient demonstrates stage 2 hepatic encephalopathy and severe ascites, with notable swelling of the lower extremities. Laboratory and renal function parameters reveal the following: glomerular filtration rate (GFR) of 72 mL/min, normalized GFR (NGFR) of 57 mL/min, serum sodium of 124 mEq/L, international normalized ratio (INR) of 2.9, albumin level of 2.9 g/dL, creatinine level of 1.39 mg/dL, and total bilirubin of 29 mg/dL.
3	A 49-year-old woman with end-stage renal disease secondary to autosomal dominant polycystic kidney disease underwent a deceased donor renal transplantation. Her pretransplant blood type was A Rh(D) positive. The patient's medical history was significant for hemodialysis dependence for six years, hypertension, right radical nephrectomy, type 2 diabetes mellitus controlled with oral hypoglycemics, a history of viral meningoencephalitis, recurrent urinary tract infections, inguinal hernia repair, and three previous pregnancies. The organ donor was A Rh(D) negative and had been previously alloimmunized, as evidenced by the presence of anti-D antibodies detected in a pre-mortem blood sample. The transplant surgery was uneventful, and no blood products were administered intraoperatively. Postoperatively, the patient was initiated on immunosuppressive therapy, including mycophenolate mofetil, tacrolimus, and prednisone. Her early postoperative course was complicated by delayed graft function, necessitating the use of antithymocyte globulin (five daily doses) and intermittent hemodialysis. Prior to the transplantation, the patient's hemoglobin was 109 g/L. It remained stable until postoperative day (POD) 5, when it inexplicably decreased to 71 g/L. By POD 11, the hemoglobin further dropped to 55 g/L, despite the absence of overt bleeding or hemodynamic instability. Following transfusion of 1 unit of red blood cells (RBCs), her hemoglobin continued to decline, reaching 41 g/L by POD 12. Cross-sectional imaging, including computed tomography of the abdomen and pelvis and renal ultrasound, did not reveal evidence of active bleeding, hematoma, or other causes for the anemia.
4	A 51-year-old female with a history of decompensated cirrhosis, arterial hypertension, and Alport syndrome underwent liver transplantation. Her immediate postoperative course was uneventful until the seventh postoperative day, approximately 96 hours after initiating tacrolimus as part of her immunosuppressive regimen. At that time, the patient experienced episodes of clonus in the right upper limb, suggestive of self-limited focal seizures. During these episodes, her blood pressure was recorded at 170/95 mmHg. No additional neurological symptoms were reported.
5	A 63-year-old male presented to the transplant department with fever, persistent diarrhea, and vomiting occurring four months after undergoing liver transplantation for cirrhosis secondary to nonalcoholic fatty liver disease (NASH). The deceased donor was ABO-identical with the recipient and homozygous at the HLA-A, DR, and DQB/DQA loci (A24, A24; B35, B44; DR11, DR11; DQ7, DQ7; DQA5, DQA5). Post-transplant immunosuppressive therapy included tacrolimus and mycophenolate mofetil. On admission, the patient's vital signs were stable. Clinical examination revealed decreased bowel sounds and an extensive maculopapular rash on the back. Laboratory investigations showed normal liver function, an elevated C-reactive protein (CRP) suggestive of an inflammatory process, and significant hematological abnormalities, including leukopenia with a white blood cell

count of 1.6 K/ μ L (lymphocytes 16.6%), anemia with hemoglobin at 8.9 g/dL, and thrombocytopenia with a platelet count of 95 K/ μ L.

Supplementary Table 6. Performance comparison of chatGPT vs GPT-4 when factoring for specific tasks in unpublished department cases

Type of Task	Overall	Overall GPT-4	chatGPT Renal	GPT-4 renal	chatGPT liver	GPT-4 liver
	chatGPT	agreement	Transplantation	transplantation	Transplantation	transplantation
	agreement	level	agreement level	agreement	agreement level	agreement
	level			level		level
DD that	A: 11/12	A: 11/12	A: 7/7 (100%)	A: 7/7 (100%)	A: 4/5 (80%)	A: 4/5 (80%)
includes final	(91.7%)	(91.7%)	PA: 0/7 (0%)	PA: 0/7 (0%)	PA: 0/5 (0%)	PA: 0/5 (0%)
diagnosis	PA: 0/12 (0%)	PA: 0/12 (0%)				
Final diagnosis	A: 5/13 (38.5%)	A: 6/13 (46.2%)	A: 2/8 (25%)	A: 5/8 (62.5%)	A: 3/5 (60%)	A: 1/5 (20%)
prediction	PA: 1/13 (7.7%)	PA: 1/13 (7.7%)	PA: 1/8 (12.5%)	PA: 1/8 (12.5%)	PA: 0/5 (0%)	PA: 0/5 (0%)

Appropriate	A: 3/9 (33.3%)	A: 7/9 (77.8%)	A: 3/6 (50%)	A: 5/6 (83.3%)	A: 0/3 (0%)	A: 2/3 (66.7%)
next diagnostic	PA: 5/9 (55.6%)	PA: 1/9 (11.1%)	PA: 2/6 (33.3%)	PA: 0/6 (0%)	PA: 0/3 (100%)	PA: 1/3 (33.3%)
test						
Appropriate	A: 2/6 (33.3%)	A: 4/6 (66.7%)	A: 1/4 (25%)	A: 3/4 (75%)	A: 5/11 (45.5%)	A: 1/2 (50%)
treatment	PA: 3/6 (50%)	PA: 1/6 (16.7%)	PA: 2/4 (50%)	PA: 1/4 (25%)	PA: 6/11	PA: 0/2 (0%)
					(55.5%)	
Prediction of	A: 2/3 (66.7%)	A: 3/3 (100%)	A: 1/1 (100%)	A: 1/1 (100%)	A: 1/2 (50%)	A: 2/2 (100%)
prognosis	PA: 1/3 (33.3%)	PA: 0/3 (0%)	PA: 0/0 (0%)	PA: 0/0 (0%)	PA: 1/2 (50%)	PA: 0/2 (%)

Abbreviations. DD: differential diagnosis, PA: partial agreement