

Uwe Klinge

List of Publications by Year in descending order

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125
papers

9,744
citations

53660

45
h-index

37111

96
g-index

136
all docs

136
docs citations

136
times ranked

5825
citing authors

#	ARTICLE	IF	CITATIONS
1	â€˜The Ideal Mesh?'. Pathobiology, 2013, 80, 169-175.	1.9	1,287
2	Classification of primary and incisional abdominal wall hernias. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2009, 13, 407-414.	0.9	915
3	Guidelines for laparoscopic (TAPP) and endoscopic (TEP) treatment of inguinal Hernia [International Endohernia Society (IEHS)]. Surgical Endoscopy and Other Interventional Techniques, 2011, 25, 2773-2843.	1.3	561
4	Foreign Body Reaction to Meshes Used for the Repair of Abdominal Wall Hernias. The European Journal of Surgery, 1999, 165, 665-673.	1.0	331
5	The lightweight and large porous mesh concept for hernia repair. Expert Review of Medical Devices, 2005, 2, 103-117.	1.4	313
6	Impact of Polymer Pore Size on the Interface Scar Formation in a Rat Model. Journal of Surgical Research, 2002, 103, 208-214.	0.8	305
7	Update of guidelines on laparoscopic (TAPP) and endoscopic (TEP) treatment of inguinal hernia (International Endohernia Society). Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 289-321.	1.3	274
8	PVDF as a new polymer for the construction of surgical meshes. Biomaterials, 2002, 23, 3487-3493.	5.7	234
9	Elasticity of the anterior abdominal wall and impact for reparation of incisional hernias using mesh implants. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2001, 5, 113-118.	0.9	227
10	Modified mesh for hernia repair that is adapted to the physiology of the abdominal wall. The European Journal of Surgery, 2003, 164, 951-960.	1.0	225
11	EuraHS: the development of an international online platform for registration and outcome measurement of ventral abdominal wall hernia repair. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2012, 16, 239-250.	0.9	219
12	Functional impairment and complaints following incisional hernia repair with different polypropylene meshes. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2001, 5, 142-147.	0.9	190
13	Abnormal Collagen I to III Distribution in the Skin of Patients with Incisional Hernia. European Surgical Research, 2000, 32, 43-48.	0.6	185
14	Functional and morphological evaluation of different polypropylene-mesh modifications for abdominal wall repair. Biomaterials, 1998, 19, 2235-2246.	5.7	174
15	Decreased collagen type I/II/III ratio in patients with recurring hernia after implantation of alloplastic prostheses. Langenbeck's Archives of Surgery, 2004, 389, 17-22.	0.8	156
16	Modified classification of surgical meshes for hernia repair based on the analyses of 1,000 explanted meshes. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2012, 16, 251-258.	0.9	156
17	Functional and morphologic properties of a modified mesh for inguinal hernia repair. World Journal of Surgery, 2002, 26, 1472-1480.	0.8	145
18	Collagen I/III and Matrix Metalloproteinases (MMP) 1 and 13 in the Fascia of Patients With Incisional Hernias. Journal of Investigative Surgery, 2001, 14, 47-54.	0.6	141

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19	Do multifilament alloplastic meshes increase the infection rate? Analysis of the polymeric surface, the bacteria adherence, and their <i>in vivo</i> consequences in a rat model. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 765-771.	3.0	140
20	Recurrent Inguinal Hernia: Disease of the Collagen Matrix?. <i>World Journal of Surgery</i> , 2002, 26, 401-408.	0.8	137
21	The biology of hernia formation. <i>Surgery</i> , 2004, 136, 1-4.	1.0	123
22	Impaired balance of type I and type III procollagen mRNA in cultured fibroblasts of patients with incisional hernia. <i>Surgery</i> , 2002, 131, 324-331.	1.0	120
23	Polypropylene in the intra-abdominal position: Influence of pore size and surface area. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2004, 8, 365-372.	0.9	115
24	Expression of the Extracellular Matrix Proteins Collagen I, Collagen III and Fibronectin and Matrix Metalloproteinase-1 and -13 in the Skin of Patients with Inguinal Hernia. <i>European Surgical Research</i> , 1999, 31, 480-490.	0.6	112
25	Mesh biocompatibility: effects of cellular inflammation and tissue remodelling. <i>Langenbeck's Archives of Surgery</i> , 2012, 397, 255-270.	0.8	112
26	Functional and morphological evaluation of a low-weight, monofilament polypropylene mesh for hernia repair. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 129-136.	3.0	107
27	Incisional Hernia: Open Techniques. <i>World Journal of Surgery</i> , 2005, 29, 1066-1072.	0.8	105
28	Mesh Implants in Hernia Repair. <i>European Surgical Research</i> , 2003, 35, 161-166.	0.6	98
29	Analysis of collagen-interacting proteins in patients with incisional hernias. <i>Langenbeck's Archives of Surgery</i> , 2003, 387, 427-432.	0.8	96
30	Risk factors related to recurrence in inguinal hernia repair: a retrospective analysis. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2006, 10, 309-315.	0.9	92
31	Mesh implants: An overview of crucial mesh parameters. <i>World Journal of Gastrointestinal Surgery</i> , 2015, 7, 226.	0.8	87
32	A role for the collagen I/III and MMP-1/-13 genes in primary inguinal hernia?. <i>BMC Medical Genetics</i> , 2002, 3, 2.	2.1	84
33	Functional assessment and tissue response of short- and long-term absorbable surgical meshes. <i>Biomaterials</i> , 2001, 22, 1415-1424.	5.7	83
34	Are collagens the culprits in the development of incisional and inguinal hernia disease?. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2006, 10, 472-477.	0.9	82
35	Influence of polyglactin-coating on functional and morphological parameters of polypropylene-mesh modifications for abdominal wall repair. <i>Biomaterials</i> , 1999, 20, 613-623.	5.7	77
36	New polymer for intra-abdominal meshes—PVDF copolymer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 321-328.	1.6	67

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37	New objective measurement to characterize the porosity of textile implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 176-183.	1.6	66
38	Influence of implantation interval on the long-term biocompatibility of surgical mesh. <i>British Journal of Surgery</i> , 2002, 89, 1043-1048.	0.1	59
39	Retrieval study at 623 human mesh explants made of polypropylene – impact of mesh class and indication for mesh removal on tissue reaction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1393-1399.	1.6	57
40	Influence of Mesh Materials on Collagen Deposition in a Rat Model. <i>Journal of Investigative Surgery</i> , 2002, 15, 319-328.	0.6	55
41	In vivo MRI visualization of mesh shrinkage using surgical implants loaded with superparamagnetic iron oxides. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2012, 26, 1468-1475.	1.3	52
42	Influence of suture technique on laparotomy wound healing: an experimental study in the rat. <i>Langenbeck's Archives of Surgery</i> , 2001, 386, 218-223.	0.8	51
43	Technical consideration for subxiphoidal incisional hernia repair. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2005, 9, 84-87.	0.9	49
44	Improved collagen type I/III ratio at the interface of gentamicin-supplemented polyvinylidene fluoride mesh materials. <i>Langenbeck's Archives of Surgery</i> , 2007, 392, 465-471.	0.8	47
45	Temporary closure of the abdominal wall (laparostomy). <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2002, 6, 155-162.	0.9	46
46	Mesh for hernia repair. <i>British Journal of Surgery</i> , 2008, 95, 539-540.	0.1	43
47	Macrophage and T-lymphocyte Infiltrates in Human Peritoneal Adhesions Indicate a Chronic Inflammatory Disease. <i>World Journal of Surgery</i> , 2008, 32, 296-304.	0.8	40
48	Synthesis of type I and III collagen, expression of fibronectin and matrix metalloproteinases-1 and -13 in hernial sac of patients with inguinal hernia. <i>International Journal of Surgical Investigation</i> , 1999, 1, 219-27.	0.0	39
49	Influence of mesh materials on the integrity of the vas deferens following Lichtenstein hernioplasty: an experimental model. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2008, 12, 621-626.	0.9	36
50	Improved Preservation and Microcirculation with POLYSOL After Partial Liver Transplantation in Rats. <i>Journal of Surgical Research</i> , 2011, 167, e375-e383.	0.8	36
51	Gentamicin for prevention of intraoperative mesh contamination: demonstration of high bactericide effect (in vitro) and low systemic bioavailability (in vivo). <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2014, 18, 691-700.	0.9	33
52	Chemical composition of surgical smoke produced by electrocautery, harmonic scalpel and argon beaming – a short study. <i>European Surgery - Acta Chirurgica Austriaca</i> , 2007, 39, 118-121.	0.3	30
53	Influence of 4% icodextrin solution on peritoneal tissue response and adhesion formation. <i>BMC Surgery</i> , 2013, 13, 34.	0.6	30
54	Elongation of textile pelvic floor implants under load is related to complete loss of effective porosity, thereby favoring incorporation in scar plates. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1079-1084.	2.1	30

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55	Hernia recurrence as a problem of biology and collagen. <i>Journal of Minimal Access Surgery</i> , 2006, 2, 151.	0.4	28
56	Polymers in hernia repair—common polyester vs. polypropylene surgical meshes. <i>Journal of Materials Science</i> , 2000, 35, 4769-4776.	1.7	27
57	Application of three-dimensional stereography to assess abdominal wall mobility. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 1998, 2, 11-14.	0.9	26
58	Morphology, quality, and composition in mature human peritoneal adhesions. <i>Langenbeck's Archives of Surgery</i> , 2007, 393, 59-66.	0.8	26
59	Biocompatibility and biomechanical analysis of elastic <sc>TPU</sc> threads as new suture material. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 99-106.	1.6	26
60	Polymeric meshes induce zonal regulation of matrix metalloproteinase-2 gene expression by macrophages and fibroblasts. <i>FASEB Journal</i> , 2007, 21, 1047-1057.	0.2	25
61	Zinc deficiency impairs wound healing of colon anastomosis in rats. <i>International Journal of Colorectal Disease</i> , 2010, 25, 251-257.	1.0	25
62	Review of Wound Healing with Reference to an Unrepairable Abdominal Hernia. <i>The European Journal of Surgery</i> , 2002, 168, 67-73.	1.0	24
63	Beneficial effects of hydrocortisone or spironolactone coating on foreign body response to mesh biomaterial in a mouse model. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 335-343.	2.1	24
64	Time-Dependent Changes of Magnetic Resonance Imaging—Visible Mesh Implants in Patients. <i>Investigative Radiology</i> , 2014, 49, 439-444.	3.5	24
65	Influence of Suture Material and Suture Technique on Collagen Fibril Diameters in Midline Laparotomies. <i>European Surgical Research</i> , 2000, 32, 359-367.	0.6	23
66	Serum analyses for protein, albumin and IL-1-RA serve as reliable predictors for seroma formation after incisional hernia repair. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2011, 15, 69-73.	0.9	23
67	Experimental Comparison of Monofile Light and Heavy Polypropylene Meshes: Less Weight Does Not Mean Less Biological Response. <i>World Journal of Surgery</i> , 2007, 31, 867-868.	0.8	22
68	Characterisation of the cellular infiltrate in the foreign body granuloma of textile meshes with its impact on collagen deposition. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2014, 18, 571-578.	0.9	22
69	Analysis of adhesion formation of a new elastic thermoplastic polyurethane (TPU) mesh in comparison to polypropylene (PP) meshes in IPOM position. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 366-372.	1.5	22
70	<sc>CD68</sc>+ macrophages as crucial components of the foreign body reaction demonstrate an unconventional pattern of functional markers quantified by analysis with double fluorescence staining. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 3134-3146.	1.6	22
71	Different matrix micro-environments in colon cancer and diverticular disease. <i>International Journal of Colorectal Disease</i> , 2007, 22, 515-520.	1.0	21
72	Risk-adjusted procedure tailoring leads to uniformly low complication rates in ventral and incisional hernia repair: a propensity score analysis and internal validation of classification criteria. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2017, 21, 569-582.	0.9	19

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73	Can we be sure that the meshes do improve the recurrence rates?. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2005, 9, 1-2.	0.9	17
74	Mesh implants for hernia repair: an update. <i>Expert Review of Medical Devices</i> , 2018, 15, 735-746.	1.4	17
75	Elastic mesh with thermoplastic polyurethane filaments preserves effective porosity of textile implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2654-2660.	2.1	16
76	Delayed Wound Healing in Sacrococcygeal Pilonidal Sinus Coincides with an Altered Collagen Composition. <i>World Journal of Surgery</i> , 2009, 33, 130-136.	0.8	13
77	Damage to the spermatic cord by the Lichtenstein and TAPP procedures in a pig model. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2011, 25, 146-152.	1.3	13
78	Tissue remodeling macrophages morphologically dominate at the interface of polypropylene surgical meshes in the human abdomen. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2020, 24, 1175-1189.	0.9	13
79	A case of bilateral inguinal hernia recurrence in infancy: Investigations on collagen metabolism. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2004, 8, 160-163.	0.9	12
80	Impact of Proinflammatory Cytokine Knockout on Mesh Integration. <i>Journal of Investigative Surgery</i> , 2009, 22, 256-262.	0.6	12
81	Do drainage liquid characteristics serve as predictors for seroma formation after incisional hernia repair?. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2010, 14, 175-179.	0.9	12
82	Introducing a Method of In Vitro Testing of Different Anchoring Systems Used for Female Incontinence and Prolapse Surgery. <i>BioMed Research International</i> , 2013, 2013, 1-7.	0.9	12
83	The Impact of a Nitric Oxide Synthase Inhibitor (L-NAME) on Ischemia-Induced Reperfusion Injury of Cholestatic Livers by Pringle Maneuver and Liver Resection after Bile Duct Ligation in Rats. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2114.	1.8	12
84	Characterization of innate and adaptive immune cells involved in the foreign body reaction to polypropylene meshes in the human abdomen. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2022, 26, 309-323.	0.9	12
85	Demands and properties of alloplastic implants for the treatment of stress urinary incontinence. <i>Expert Review of Medical Devices</i> , 2007, 4, 349-359.	1.4	11
86	Open Mesh Repair. <i>European Surgery - Acta Chirurgica Austriaca</i> , 2003, 35, 21-24.	0.3	10
87	In vivo characterisation of the inflammatory reaction following mesh implantation in transgenic mice models. <i>Langenbeck's Archives of Surgery</i> , 2014, 399, 579-588.	0.8	9
88	Tension banding closure of laparotomies: results of an experimental study in dogs. <i>Langenbeck's Archives of Surgery</i> , 2002, 387, 309-314.	0.8	8
89	Gut-liver axis improves with meloxicam treatment after cirrhotic liver resection. <i>World Journal of Gastroenterology</i> , 2014, 20, 14841.	1.4	8
90	Causes of recurrences after Lichtenstein tension-free hernioplasty. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2003, 7, 100-101.	0.9	7

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91	InÂvivo imaging of antioxidant response element activity during liver regeneration after partial hepatectomy. <i>Journal of Surgical Research</i> , 2016, 206, 525-535.	0.8	7
92	MRI Evaluation of an Elastic TPU Mesh under Pneumoperitoneum in IPOM Position in a Porcine Model. <i>Journal of Investigative Surgery</i> , 2018, 31, 185-191.	0.6	7
93	Quantitative Characterization of Macrophage, Lymphocyte, and Neutrophil Subtypes Within the Foreign Body Granuloma of Human Mesh Explants by 5-Marker Multiplex Fluorescence Microscopy. <i>Frontiers in Medicine</i> , 2022, 9, 777439.	1.2	7
94	Absence of circulating aldosterone attenuates foreign body reaction around surgical sutures. <i>Langenbeck's Archives of Surgery</i> , 2010, 395, 429-435.	0.8	6
95	Mesh for prolapse surgery: Why the fuss?. <i>Post Reproductive Health</i> , 2015, 21, 69-74.	0.3	6
96	Retrieval study at 623 human mesh explants made of polypropylene - impact of mesh class and indication for mesh removal on tissue reaction. , 2013, 101, n/a-n/a.		6
97	Biomechanical analyses of prosthetic mesh repair in a hiatal hernia model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1485-1495.	1.6	5
98	Implants in Urogynecology. <i>BioMed Research International</i> , 2015, 2015, 1-3.	0.9	5
99	High Structural Stability of Textile Implants Prevents Pore Collapse and Preserves Effective Porosity at Strain. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	5
100	AK03, a new recombinant fibrinogenase prevents abdominal adhesions in a rat model without systemic side effects. <i>Journal of Surgical Research</i> , 2018, 222, 85-92.	0.8	5
101	Elastic TPU Mesh as Abdominal Wall Inlay Significantly Reduces Defect Size in a Minipig Model. <i>Journal of Investigative Surgery</i> , 2019, 32, 501-506.	0.6	5
102	The risk to develop a recurrence of a gastric cancerâ€”is it independent of time?. <i>Langenbeck's Archives of Surgery</i> , 2008, 393, 149-155.	0.8	4
103	Superior Overall Survival in Patients with Colorectal Cancer, Regular Aspirin Use, and Combined Wild-Type PIK3CA and KRAS-Mutated Tumors. <i>Cancers</i> , 2021, 13, 4959.	1.7	4
104	Bias-Variation Dilemma Challenges Clinical Trials: Inherent Limitations of Randomized Controlled Trials and Meta-Analyses Comparing Hernia Therapies. <i>International Journal of Clinical Medicine</i> , 2014, 05, 778-789.	0.1	4
105	PD-1+ T-Cells Correlate with Nerve Fiber Density as a Prognostic Biomarker in Patients with Resected Perihilar Cholangiocarcinoma. <i>Cancers</i> , 2022, 14, 2190.	1.7	4
106	Analysis of survival curve configuration is relevant for determining pathogenesis and causation. <i>Medical Hypotheses</i> , 2009, 72, 510-517.	0.8	3
107	Registry of implants for the reconstruction of pelvic floor in males and females: A feasibility case series. <i>International Journal of Surgery</i> , 2017, 42, 27-33.	1.1	3
108	Follow Up Data of MRI-Visible Synthetic Meshes for Reinforcement in Large Hiatal Hernia in Comparison to None-Mesh Repairâ€”A Prospective Cohort Study. <i>Frontiers in Surgery</i> , 2019, 6, 17.	0.6	3

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109	Two Polyurethane Adhesives for PVDF Fixation Show Superior Biocompatibility in a Rat Model. <i>Journal of Investigative Surgery</i> , 2022, 35, 233-239.	0.6	3
110	Acute myocardial injury secondary to severe acute liver failure: A retrospective analysis supported by animal data. <i>PLoS ONE</i> , 2021, 16, e0256790.	1.1	3
111	Two Controversial Concepts: Standard Procedure in a Standard Patient Versus Tailored Surgery with Procedures Adjusted to Individual Patients. , 2010, , 467-472.		3
112	Elastic filaments from thermoplastic polyurethanes for application in highly elastic mesh implants. <i>BioNanoMaterials</i> , 2014, 15, .	1.4	2
113	Evaluation of the collaborative network of highly correlating skin proteins and its change following treatment with glucocorticoids. <i>Theoretical Biology and Medical Modelling</i> , 2010, 7, 16.	2.1	1
114	Comment to: analysing topics using different methods promotes constructive debates. Author's reply. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2020, 24, 1139-1140.	0.9	1
115	A peritoneal defect covered by intraperitoneal mesh prosthesis effects an increased and distinctive foreign body reaction in a minipig model. <i>Journal of Biomaterials Applications</i> , 2021, 35, 732-739.	1.2	1
116	Collaborative network of predictive markers complicates formation of prognostic groups in patients with advanced lung cancer. <i>Anticancer Research</i> , 2014, 34, 2745-54.	0.5	1
117	Dynamic patchplastyâ€”a tension-free reconstruction of incisional hernias. <i>Langenbeck's Archives of Surgery</i> , 2006, 391, 409-410.	0.8	0
118	Investigation of magnetic nanoparticles incorporated within textile hernia implants. <i>Biomedizinische Technik</i> , 2012, 57, .	0.9	0
119	MR-visualization of surgical textile implants. <i>BioNanoMaterials</i> , 2014, 15, .	1.4	0
120	META Score: An International Consensus Scoring System on Meshâ€”Tissue Adhesions. <i>World Journal of Surgery</i> , 2020, 44, 2935-2943.	0.8	0
121	Improved tissue integration of a new elastic intraperitoneal stoma mesh prosthesis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2250-2257.	1.6	0
122	Basics zu Netzen f¼r die Leistenhernienreparation. , 2021, , 193-196.		0
123	SUPERPARAMAGNETIC IRON OXIDES FOR MR-VISUALIZATION OF TEXTILE IMPLANTS. , 2010, , .		0
124	Anatomical Limitations of Surgical Techniques. , 2007, , 81-82.		0
125	P042â€”CHARACTERIZATION OF INNATE AND ADAPTIVE IMMUNE CELLS INVOLVED IN THE FOREIGN BODY REACTION TO POLYPROPYLENE MESHES IN THE HUMAN ABDOMEN. <i>British Journal of Surgery</i> , 2021, 108, .	0.1	0