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## **Appendix A: List of members of the IWWD consortium**

### **Academic committee**

M.J.M. van der Valk, D.E. Hilling, E. Bastiaannet, E. Meershoek-Klein Kranenburg, G.L. Beets, N.L. Figueredo, A. Habr-Gama, R.O. Perez, A.G. Renehan, C.J.H. van de Velde

### **Participating investigators** (in alphabetical order)

M. Ahlberg, A.L. Appelt, O. Asaglu, R. Barroca, M.T. Bär, R.J.I. Bosker, S. Breukink, K. Bujko, C. Carvalho, C. Cunningham, B. Creavin, A. D’Hoore, J.P. Gerard, S. Gollins, C. Hoff, F.A. Holman, B.J.P. Hupkens, S. Iseas, A. Jakobsen, A. Keshvari, S.A. Koopal, M. Kusters, M. Langheinrich, L. Malcomson, Z.Z. Mamedli, M. Maas, A. Martling, K.E. Matzel, J.J. Melenhorst, M.L. Morici, S.M. Murad-Regadas, S. T. O’Dwyer, K.C.M.J. Peeters, A.G.H. Roodvoets, I. Rosa, H.J. Rutten, F. Sanchez Loria, M.E. van der Sande, G.P. São Julião, M. Saunders, A. Sun Myint, H. van der Sluis, I. Terrasson, R. Schiappa, N. Scott, A. K. Talsma H. Tokmak, C.A. Vaccaro, A.L. Vahrmeijer, H.L. van Westreenen, D.C. Winter, A.M. Wolthuis, E. Worthington-Chapman, D.D.E. Zimmerman

## Appendix B

Participating investigators, institutes, number of patients in the database and number of patients with a clinical complete response (cCR) in parenthesis, included in the primary analysis).

	<b>Participating Investigators</b>	<b>Institute</b>	<b>Location</b>	<b># patients (cCR)</b>
<b>1</b>	H. Rutten, M. Kusters	Catharina Ziekenhuis	Eindhoven, the Netherlands	14 (8)
<b>2</b>	A. D'Hoore, A. Wolthuis, I. Terrasson	Universiteits Ziekenhuis Leuven	Leuven, Belgium	32 (27)
<b>3</b>	K. Matzel, M.T. Bär, M. Langheinrich	Universitätsklinikum Erlangen	Erlangen, Germany	28 (25)
<b>4</b>	D. Winter, B. Creavin	St. Vincent's University hospital	Dublin, Ireland	35 (35)
<b>5</b>	R. Gonçalves Barroca, I. Rosa	IPO Francisco Gentil	Lisbon, Portugal	7 (7)
<b>6</b>	A. Martling, M. Ahlberg	Karolinska Universitetssjukhuset	Stockholm, Sweden	21 (15)
<b>7</b>	S.M. Murad Regadas	Universidade Federal do Ceará	Fortaleza, Brazil	9 (9)
<b>8</b>	K. Bujko	Maria Skłodowska Curie Memorial Cancer Centre	Warswa, Poland	24 (15)
<b>9</b>	A. Jakobsen, A.L. Appelt	Danish Colorectal Cancer Centre South	Vejle, Denmark	40 (40)
<b>10</b>	J.P. Gerard, R. Schiappa	Centre Antoine-Lacassagne	Nice, France	45 (25)
<b>11</b>	C. Vaccaro, M.L. Morici	Hospital Italiano	Buenos Aires, Argentina	30 (25)
<b>12</b>	F. Sanchez Loria	Instituto Alexander Fleming	Buenos Aires, Argentina	35 (20)
<b>13</b>	S. Iseas	Hospital Udaondo	Buenos Aires, Argentina	1 (1)
<b>14</b>	Z.Z. Mamedli	Russian Cancer Research Centre	Moskow, Russia	6 (5)
<b>15</b>	C. Cunningham, E. Worthington-Chapman	Oxford University Hospitals	Oxford, United Kingdom	1 (1)
<b>16</b>	O. Asaglu, H. Tokmak	Istinye üniversitesi	Istanbul, Turkey	9 (6)
<b>17</b>	A. Keshvari	Imam Khomeini Hospital Complex	Tehran, Iran	1 (0)
<b>18</b>	K.C.M.J. Peeters, F.A. Holman, A.L. Vahrmeijer, D.E. Hilling, M.J.M. van der Valk, A.G.H. Roodvoets	Leiden University Medical Center	Leiden, The Netherlands	5 (5)
<b>19</b>	N. Figueiredo, C. Carvalho	Champalimaud Clinical Center	Lisboa, Portugal	57 (14)
<b>20</b>	J. Melenhorst, S. Breukink, B.J.P. Hupkens	Maastricht University Medical Center	Maastricht, the Netherlands	23 (21)
<b>21</b>	G.L. Beets, M. Maas, M.E. van der Sande, C. Hoff, S.A. Koopal H.L. van Westreenen, H. van der Sluis D.D.E. Zimmerman A.K. Talsma, R.J.I. Bosker	Antoni van Leeuwenhoek multicenter cohort Medical centre Leeuwarden Isala Hospital Zwolle Elisabeth TweeSteden Hospital Deventer Hospital	Amsterdam, The Netherlands Leeuwarden Zwolle Tilburg Deventer	241 (218)
<b>22</b>	A. Habr-Gama, R.O. Perez, G.P. São Julião	Instituto A& J Gama	Sao Paulo, Brazil	196 (192)
<b>23</b>	A.G. Renehan, L. Malcomson, S. Gollins, A. Sun Myint, M. Saunders, N. Scott, S.T. O'Dwyr	North west Rectal cancer registry	United Kingdom	149 (149)
		The Christie NHS Foundation	Manchester	
		Clatterbridge Cancer Centre	Bebbington	
		Royal Blackburn Hospital	Blackburn	
		Blackpool Victoria Hospital	Blackpool	
		Royal Bolton Hospital	Bolton	
		Countess of Chester	Chester	
		Harrogate District Hospital	Harrogate	
		Leighton Hospital	Leighton	
		Royal Liverpool Hospital	Liverpool	
		Macclesfield District General Hospital	Macclesfield	
		University Hospital South Manchester	Manchester	
		Manchester Royal Infirmary	Manchester	
		North Manchester General Hospital	Manchester	
		Royal Oldham Hospital	Oldham	
		Royal Preston Hospital	Preston	
		Glan Clwyd Hospital	Rhyl	
		Salford Royal NHS Trust	Salford	
		Stepping Hill Hospital	Stockport	
		Tameside Hospital	Tameside	
		Warrington Hospital	Warrington	
		Royal Albert Edward Infirmary	Wigan	
<b>Total</b>				<b>1009 (880)</b>

## Appendix C

Differences in baseline characteristics of clinical complete responders between the 3 largest participating centers: Instituto A&J Gama (Habr-Gama cohort) Antoni van Leeuwenhoek and Maastricht UMC (AvL/MUMC) (Beets cohort), North west Rectal cancer registry (OncoRe, Renehan cohort).

Data are displayed as n (%), unless indicated otherwise

\* clinical T stage based on radiology imaging is displayed, if patients were evaluated with endoscopy or endorectal ultrasound, the baseline T stage was not documented in the database.

		<b>A&amp;J Gama</b> n = 192	<b>AvL/MUMC</b> n= 239	<b>OncoRe</b> n =149
<b>Age</b>	Mean (SD)	59.7 (12.6)	63.5 (9.92)	65.9 (9.4)
<b>BMI</b>	Mean (SD)	26.1 (3.9)	26.3 (5.4)	27.5 (6.2)
<b>Sex</b>	Male	126 (65.6)	161 (67.4%)	110 (73.8%)
<b>Comorbidity</b>	Yes	58 (30.7)	74 (31.0)	
	no	131 (68.2)	103 (43.1)	17 (11.4)
	unknown	3 (1.6)	62 (25.9)	132 (88.6)
<b>Year of decision for W&amp;W</b>	Before 2010	113 (58.9)	10 (4.2)	11 (7.4)
	2010-2014	73 (38)	95 (39.7)	131 (87.9)
	2015 - present	6 (3.1)	134 (56.1)	7 (4.7)
<b>Median follow-up time</b>	(years)	7.1 (0.43)	2.1 (0.1)	3.7 (0.2)
<b>clinical T stage baseline* (based on radiology)</b>	cT1	7 (3.6)	2 (0.8)	0 (0)
	cT2	21 (10.9)	50 (20.9)	36 (24.2)
	cT3	26 (13.5)	170 (71.1)	104 (69.8)
	cT4	0 (0)	15 (6.3)	7 (4.7)
	unknown	138 (71.9)	2 (0.8)	2 (1.3)
<b>clinical N stage baseline</b>	cN0	59 (30.7)	62 (25.9)	47 (31.5)
	cN1	22 (11.5)	79 (33.1)	63 (42.3)
	cN2	2(1.0)	96 (40.2)	37 (24.8)
	unknown	109 (56.8)	2 (0.8)	2 (1.3)
<b>Local regrowth</b>	Yes	70 (36.5)	35 (14.6)	59 (39.6)
	No	122(63.5)	204 (85.4)	90 (60.4)
<b>Distant metastasis</b>	Yes	27 (14.1)	9 (3.8)	14 (9.4)
	No	165 (85.9)	230 (96.2)	135 (90.6)