

**On-line Table: Histopathologic findings in humans: review of the literature**

Study	No. of Aneurysms	Histopathologic Findings: Dome	Histopathologic Findings: Neck	Coil Type
0 Days to 1 week				
Bavinczki et al., 1999 <sup>15</sup>	6	Uncovered coils, thrombus present; fibroblast invasion	Thin membrane present over aneurysm neck by 6–7 days	Bare platinum
Strier et al., 1998 <sup>22</sup>	1	Thrombus in aneurysm sac covering the coils	Discrete fibrin membrane excluding aneurysm sac, contiguous with parent vessel	Bare platinum
Groden et al., 2003 <sup>7</sup>	1	Thrombus with RBC and fibrin; small groups of macrophages and fibroblasts within thrombus	No endothelialization of neck	Bare platinum
Szikora et al., 2006 <sup>23</sup>	6	Thrombus with RBC, foreign body giant cells, and macrophages	NA	Bare platinum
Nakahara et al., 2003 <sup>24</sup>	1	Unorganized thrombus	Incomplete cell lining, no endothelial cells	Bare platinum
1–2 Weeks				
Bavinczki et al., 1999 <sup>15</sup>	5	Covered and uncovered coils; fibrin formation in the aneurysm dome; RBC, WBC, and fibroblast invasion in a majority of patients	Thin fibrin membrane over the neck	Bare platinum
Ishihara et al., 2002 <sup>19</sup>	1	Very thin fibrin membrane over coils; blood clot in lumen of aneurysm	Endothelial cells encroaching on platinum coils at aneurysm neck with thin neointima	Bare platinum
Groden et al., 2003 <sup>7</sup>	2	Fresh thrombus with RBC and fibrin; few macrophages	Thin layer of endothelial cells	Bare platinum and Matrix
Szikora et al., 2006 <sup>23</sup>	5	Fresh thrombus, unorganized thrombus, Foreign body giant cells, leukocyte infiltration, macrophages	Fibrin covering coils at neck	Bare platinum
2 Weeks to 1 month				
Bavinczki et al., 1999 <sup>15</sup>	3	Fibroblast invasion in all cases; leukocytes present; fibrin-containing thrombus	Covered coils, thin fibrin membrane over orifice	Bare platinum
Horowitz et al., 1997 <sup>18</sup>	1	Thin fibrin layer covering coils	Endothelial and fibroblastic proliferation at edges of neck along the coils, thin film of fibrin	Bare platinum
Shimizu et al., 1999 <sup>21</sup>	1	Organized thrombus at periphery of aneurysm lumen	No neointerlum, aneurysm not isolated	Bare platinum
Groden et al., 2003 <sup>7</sup>	2	Thrombus formation with fibrin and RBCs	Fibrin formation in 1 aneurysm	Bare platinum
Szikora et al., 2006 <sup>23</sup>	1	RBC-containing thrombus in aneurysm dome	Fibrin covering coils at aneurysm neck	Bare platinum
1–3 Months				
Bavinczki et al., 1999 <sup>15</sup>	1	Covered coils, fibroblast organization, endothelial lining, fibrin, and capillary formation	Thin fibrin membrane over aneurysm neck	Bare platinum
Szikora et al., 2006 <sup>23</sup>	2	Thrombus in aneurysm sac with unorganized thrombus; foreign body giant cells, no leukocyte infiltration, macrophages present; some collagen formation	NA	Bare platinum
3–12 Months				
Groden et al., 2003 <sup>7</sup>	1	Vascularized connective tissue, also embedded on the coils; multinucleated giant cells adjacent to coils	Completely covered by a layer of long, slender cells resembling endothelium	Bare platinum
Szikora et al., 2006 <sup>23</sup>	1	Foreign body giant cells, leukocyte, and macrophage infiltration; fibrocellular reaction; neovascularization, collagen formation	NA	Bare platinum and Matrix
Suda et al., 1999 <sup>25</sup>	1	NA	Thin wall of endothelial cells contiguous with parent vessel	Bare platinum
>12 Months				
Bavinczki et al., 1999 <sup>15</sup>	1	Coils incorporated into aneurysm wall; fibrocytes, collagen, capillary formation	NA	Bare platinum
Suda et al., 1999 <sup>25</sup>	1	NA	Thin wall of endothelial cells contiguous with parent vessel	Bare platinum
Castro et al., 1999 <sup>16</sup>	2	Vascular fibrous connective tissue scar; inflammatory cells in periphery; foreign body response (giant cells) surrounding coil	Thick dense layer of collagen covering aneurysm neck and single layer of endothelial cells; endothelium not continuous with parent vessel	Bare platinum
Mizoi et al., 1996 <sup>26</sup>	1	Stable thrombus surrounding aneurysm coil	No endothelialization of aneurysm neck; coil was not present at the aneurysm neck however	Bare platinum
Molyneux et al., 1995 <sup>20</sup>	2	Unorganized clot surrounding coils; variable degree of organization of the clot with capillary penetration; macrophages and inflammatory cells and fibrosis were minor components	NA	Bare platinum
Ishihara et al., 2002 <sup>19</sup>	1	Coil embedded in fibrous tissue with little inflammatory cellular reaction; no thrombus	Endothelial cells encroaching on platinum coils at aneurysm neck; endothelial cells associated with a thickened layer of fibrous tissue	Bare platinum
Dai et al., 2005 <sup>4</sup>	1	Loose, hypocellular amorphous tissue, sparse collagen, and myofibroblasts	Completely covered with layer of hypocellular tissue; sparse myofibroblasts and collagen	Bare platinum
Nakahara et al., 2003 <sup>24</sup>	1	Organized fibrous tissue and vascularized granulation tissue	Single layer of endothelium	Bare platinum
Szikora et al., 2006 <sup>23</sup>	3	Unorganized thrombus; foreign body giant cells; leukocyte and macrophage infiltration; fibrocellular reaction; neovascularization; collagen formation	Fibrotic tissue deposition at aneurysm neck	Bare platinum

Note:—NA indicates not applicable; RBC, red blood cell; WBC, white blood cell.