

**Supplementary data 3:** Characteristics and quality assessment of the 20 studies included in the review.

	Country	Dates	Study type	Risk of bias Categories			Overall Outcome
				Selection	Comparability		
Chattopadhyay et al., 1993 <sup>19</sup>	Saudi Arabia	1988-1992	Retrospective/ Single Institution	⊗⊗	⊗	⊗⊗	Medium
Zaki et al., 1998 <sup>20</sup>	Saudi Arabia	1990-1996	Retrospective/ Single Institution	⊗⊗	⊗	⊗	High
Ziadeh et al., 1999 <sup>21</sup>	Jordan	1995-1996	Prospective/ Single Institution	⊗⊗⊗	⊗	⊗⊗	Medium
Gourab et al., 2001 <sup>22</sup>	Saudi Arabia	1995-2000	Prospective/ Single Institution	⊗⊗⊗	⊗	⊗⊗	Medium
Bahar et al., 2009 <sup>23</sup>	Saudi Arabia	1996-2005	Retrospective/ Single Institution	⊗⊗	⊗	⊗⊗	Medium
Hamada et al., 2011 <sup>24</sup>	Japan	2007-2009	Prospective/ Single Institution <sup>¶</sup>	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Jang et al., 2011 <sup>25</sup>	South Korea	1999-2009	Retrospective/ 3 Institutions	⊗⊗	⊗	⊗⊗	Medium
Rosenberg et al., 2011 <sup>26</sup>	Israel	1988-2009	Retrospective/ Region <sup>¶</sup>	⊗⊗	⊗	⊗⊗	Medium
Kassem et al., 2013 <sup>27</sup>	Saudi Arabia	2009-2012	Retrospective/ Single Institution	⊗⊗⊗	⊗	⊗⊗	Medium
Maher et al., 2013 <sup>28</sup>	Egypt	2008-2011	Prospective/ Single Institution	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Alchalabi et al., 2014 <sup>29</sup>	Jordan	2003-2012	Retrospective/ Single Institution*	⊗⊗	⊗	⊗⊗	Medium
Asicioglu et al., 2014 <sup>30</sup>	Turkey	2005-2010	Retrospective/ Single Institution <sup>¶</sup>	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Sumigama et al., 2014 <sup>31</sup>	Japan	1994-2012	Retrospective/ 11 Institutions <sup>¶</sup>	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Ahmed et al., 2015 <sup>32</sup>	Egypt	2014	Prospective/ Single Institution <sup>¶</sup>	⊗⊗	⊗	⊗	High
Cheng et al., 2015 <sup>33</sup>	China	1999-2013	Retrospective/ Single Institution*	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Cho et al., 2015 <sup>34</sup>	South-Korea	1991-2013	Retrospective/ Single Institution	⊗⊗	⊗	⊗⊗	Medium
Kollmann et al., 2016 <sup>35</sup>	Austria	1993-2012	Retrospective/ Region	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Pilloni et al., 2016 <sup>36</sup>	Italy	2011-2014	Prospective/ Region	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Rezk et al., 2016 <sup>37</sup>	Egypt	2012-2014	Prospective/ Single Institution <sup>¶</sup>	⊗⊗⊗⊗	⊗⊗	⊗⊗⊗	Low
Wortman et al., 2018 <sup>38</sup>	US	2002-2011	Retrospective/ Single Institution <sup>¶</sup>	⊗⊗	⊗	⊗⊗	Medium

¶= Studies including major placenta previa only; \* Studies with no description of the ultrasound diagnostic signs for PAS.