

Noelia Sanmamed Salgado

Birth Day: 01/01/1986

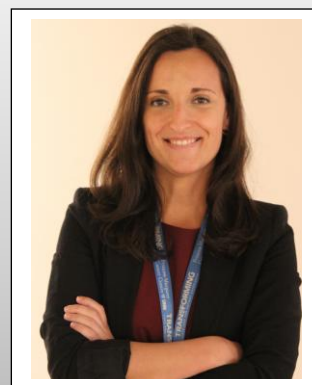
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FORMATION

- **Graduate:** Medical and surgical licensure (2005-2011) Santiago de Compostela University
- **Postgraduate:** Residency in Radiation Oncologist Clinical University Hospital of Valladolid (2012-2016)
- Radioactive facilities supervisor, Polytechnic University and Hospital Creu and Sant Pau Barcelona (January 2015)
- **Master** in paliative cares (2013-2014) Valladolid University
- **Languages:** Spanish and galician
English: Intermediate-Advanced
French: Basic
- PhD in course « Endometrial cancer recurrence, a retrospective analysis »

PROFESSIONAL EXPERIENCE

- Residency period in Clinical University Hospital of Valladolid (2012-2016)
 - Low dose brachytherapy in prostate
 - High dose brachytherapy in cervix, uterus, episcleral and skin
 - IMRT and 3D
- Observership programme (2 months) MD Anderson Cancer Center (New Jersey)
 - Radio surgery with Gammaknife

- SBRT with Cyberknife
- APBI with SAVY
- Observership programme (2 weeks) Roberts Proton therapy Center (Hospital of the University of Pennsylvania)
 - Interstitial gynecologic brachytherapy
 - High dose brachytherapy in cervix and endometrial cancer
 - Proton therapy (CNS and pediatric)
 - Radio surgery with Gammaknife
- Specialist in Radiation oncology, Txagorritxu Hospital (Vitoria) (1 year)
- Healthy cooperation with NGO ‘Amigos de Calcuta ‘ for a month
- Clinical-research Fellow in GU-Brachytherapy and spinal SBRT at Princess Margaret Cancer Center (1 year 8 months)

TRAINING AND CONGRESSES

1. GRANTS AND AWARDS

- 2018 Abbvie CARO Uro-Oncologic Radiation Awards (ACURA).
Project: The optimization and therapeutic treatment of ex vivo MR-GUIDED prostate cancer biopsy-DERIVED cultures.
- 2019 Resident Travel Grant Award for the 2019 ABS Annual Conference. “Long-Term Oncologic Outcomes of Low Dose Rate Brachytherapy Compared to Hypofractionated External Beam Radiotherapy for Intermediate Risk Prostate Cancer”

2. MEETINGS

2.a International Congresses Oral communications:

- **Noelia Sanmamed**, Lisa Joseph, Juanita Crook, Jette Borg, Peter Chung, Padraig Warde, Anne Di Tomasso, Alejandro Berlin, Andrew Bayley, Charles Catton, Joelle Helou “Long-Term Oncologic Outcomes of Low Dose Rate Brachytherapy Compared to Hypofractionated External Beam Radiotherapy for Intermediate Risk Prostate Cancer” American Brachytherapy Society’s 2019 Annual Meeting. 13-15 June 2019, Miami

- **Noelia Sanmamed**, Peter Chung, Alejandro Berlin, Jette Borg, Bernadeth Lao, Robert Weersink, Anna Simeonov, Alex Rink, Cynthia Menard, Joelle Helou. Dose to the Bladder Neck in MRI-guided High Dose-Rate Prostate Brachytherapy: Impact on Acute Urinary Toxicity and Quality of Life. RSNA 2018, 24-28 November. Chicago, Illinois.

- Berlin A, Moraes FY, **Sanmamed N**, Glicksman R, Koven A, Espin-Garcia O, Leite ETT, Silva JLF, Gadia R, Nesbitt M, Catton CN, Kaffenberger S, Salami SS, Morgan TM, Hearn JWD, Jackson WC, Mehra R, Chung P, Fleshner NE, Zumsteg ZS, Dess RT, Feng FY, Finelli A, Spratt DE. International multi-center validation of an intermediate-risk subclassification of prostate cancer treated with radical treatment without hormone therapy. ASTRO 2018 October 21 - 24, 2018. San Antonio, Texas

- Peter Chung, **Noelia Sanmamed**, Jenny Lee, Tim Craig, Alejandro Berlin, Bernadeth Lao, Alex Rink, Andrew Bayley, Charles Catton, Mary Gospodarowicz, Padraig Warde, Cynthia Ménard. MR-guided high-dose-rate (HDR) brachytherapy or integrated volumetric arc therapy (VMAT) for intraprostatic dose escalation in localized prostate cancer. 6th MR in RT Symposium, Utrecht, June 30-July 3rd 2018.

2.b. International Congresses Posters:

Snap Poster :

- Jenna Adleman, **Noelia Sanmamed**, Rouhi Fazelzad, Jacques Raphael, Joelle Helou. “Survival Outcomes and Toxicity of Brachytherapy (BT) versus External Beam (EBRT) Boost in the Treatment of Localized Prostate Cancer: A Systematic Review and Meta-Analysis” American Brachytherapy Society’s 2019 Annual Meeting. 13-15th June 2019, Miami

- **Sanmamed N**, Glicksman R, Thoms J, Zlotta AR, Finelli A, van der Kwast T, Sweet J, Jewett M, Klotz LH, Rosewall T, Fleshner NE, Bristow RG, Warde P, Berlin A. A phase I pilot study of pre-operative radiotherapy for prostate cancer: Long-term toxicity and oncologic outcomes. GU ASCO symposium February 14-16th, 2019. San Francisco.

- **Noelia Sanmamed**, Cynthia Ménard, Jenny Lee, Alejandro Berlin, Tim Craig, Bernadeth Lao, Alex Rink, Andrew Bayley, Charles Catton, Mary Gospodarowicz, Padraig Warde, Peter Chung. Tumor-targeted radiotherapy for localized prostate cancer prostate cancer through MR-guided HDR brachytherapy (HDR) or integrated VMAT (IB-VMAT). Dosimetry and toxicity analysis. ASTRO 2018 October 21 - 24, 2018. San Antonio, Texas

- H. Goldberg, R. Glicksman, N.E. Fleshner, D.T.S. Woon, Z. Klaassen, T. Chandrasekar, J.O.H. Caceres, **N.S. Salgado**, M.X. Qu, F.Y. Moraes G.S. Kulkarni, R.J. Hamilton, P. Chung, C.N. Catton, A. Finelli, A. Berlin. Free PSA ratio as a predictor of adverse outcomes after curative-intent external beam radiation therapy for prostate cancer: a novel application of an “old” biomarker. ASTRO 2018 October 21 - 24, 2018. San Antonio, Texas

- **Noelia Sanmamed**, Cynthia Ménard, Jenny Lee, Alejandro Berlin, Tim Craig, Bernadeth Lao, Alex Rink, Andrew Bayley, Charles Catton, Mary Gospodarowicz, Padraig Warde, Peter Chung. Tumor-targeted radiotherapy for localized prostate cancer prostate cancer through MR-guided HDR brachytherapy (HDR) or integrated VMAT (IB-VMAT). Toxicity and health related quality of life analysis. CARO 2018, September 12-15, 2018. Montreal, Quebec

- **Noelia Sanmamed**, Peter Chung, Alejandro Berlin, Jette Borg, Bernadeth Lao, Robert Weersink, Anna Simeonov, Alex Rink, Akbar Beiki-Ardakani, Cynthia Menard, Joelle Helou. Acute urinary toxicity and quality of life report from MRI-guided high dose-rate brachytherapy, a prospective phase II clinical trial. Annual Conference of Brachytherapy Annual Meeting, San Francisco. 7-9 June 2018

- **Noelia Sanmamed**, Peter Chung, Alejandro Berlin, Jette Borg, Bernadeth Lao, Robert Weersink, Anna Simeonov, Alex Rink, Cynthia Menard, Joelle Helou. 'Dose to the Bladder Neck: Impact on Urinary Toxicity after MRI-guided HDR Prostate Brachytherapy' ESTRO Meeting, Barcelona, 20-24 April 2018.

2.c. National Congresses Oral communications:

-Alonso P, Loaiza L, Olea R, **Sanmamed N**, col.."Uveal Melanoma: Survival in a serie of 480 patients". XVII National congress of the Spanish association of Radiation Oncology. Communications book pág. 34. Vigo, 18th- 21th of June 2013.

- Sánchez Belda M., Rubí Olea L., **Sanmamed Salgado N.**, Diezhandino García P., Alonso Martínez P., Herrera Román M., Alonso Hernandez D., del Castillo Belmonte A., Soto de Prado Otero D., López-Lara Martín F.."Role of radiotherapy in non surgicallymphoepithelialletmoides carcinoma" XVIII National congress of the Spanish association of Radiation Oncology. Communicationsbook. Valencia 4th-6th of June of 2015

- Pérez García, H.; Del Castillo Belmonte, A.; Antón García, D.; Miguel Pérez, D.; Alonso Hernández, D.; De Frutos Baraja, J.M.; **Sanmamed Salgado, N.**; López-Lara Martín, F.."Radiological characterization and clinical use of a hidrogel bolus" IV Congress of medical Physics 20SEFM/15SEPR. Valencia 23th-26th of June of 2015

2.d. National Congresses Posters:

- Alonso P, Loaiza L, Olea R, **Sanmamed N**, col « Acute toxicity after radiation in prostate cancer»XII Oncology association congress of Castilla- Leon " Prostate cancer from the prevention to the treatment. Current situation and future perspectives " Valladolid 21th and 22th of September 2012

- Alonso P, Loaiza L, Olea R, **Sanmamed N**, col « Epidemiology description of patients who have been treated in our hospital from 1st of January to 31st of december 2005 » XII Oncology association congress of Castilla- Leon " Prostate Cancer from the

prevention to the treatment. Current situation and future perspectives " Valladolid 21th and 22th of September 2012.

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Del Valle Rivero M.L., Sánchez Belda M., Del Castillo Belmonte A., Miguel Pérez D., Pérez García H., Antón García D., López-Lara Martí F.. "Incidental irradiation of axillary nodes. What can we expect?" XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Del Valle Rivero M.L., Sánchez Belda M., Alonso Martínez P., Diezhandino García P., López Pedreira M.R, Cartón Sánchez P., López-Lara Martín F.. "Atoll sign in bronchiolitis obliterans organized (BOOP)after breast radiotherapy." XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Sánchez Belda M., Alonso Martínez P., Diezhandino García P., Del Valle Rivero M.L., Garavís Vicente M.I, Del Castillo Belmonte A., López-Lara Martín F.. "Second primary tumor in the contralateral breast." XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Alonso Martínez P., Sánchez Belda M., Diezhandino García P., Del Valle Rivero M.L., Garavís Vicente M.I, López-Lara Martín F.. "Merckel cells carcinoma in eyelid, an unusual location" XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Sánchez Belda M., Alonso Martínez P., Diezhandino García P., Del Valle Rivero M.L, Nieto Sanz J., Garavís Vicente M.I, López-Lara Martín F.. "External beam radiation therapy in treatment of paraganglioma" XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- **Sanmamed Salgado N.**, Rubí Olea L., Herrera Román M., Sánchez Belda M., Alonso Martínez P., Del Valle Rivero M.L., Diezhandino García P., Nieto Sanz J., Garavís Vicente M.I., López-Lara Martín F. “Brain metastasis in a low grade phyllodes tumor” XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- Laura Rodríguez Mínguez, Enrique José Pérez García, **Noelia Sanmamed Salgado**, Luz Olea Rubí, María Sánchez Belda, Mercedes Fernández Castro, Belén Martín Gil, Fernando Cuadrillero Martín y Francisco López-Lara Martín. “Evaluation of the nursery role in the emotional area in Radiotherapy” XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- Sánchez Belda M., Alonso Martínez P., **Sanmamed Salgado N.**, Rubí Olea L., Rodríguez Mínguez L., Diezhandino García P., Herrera Román M., Garavís Vicente M.I., del Valle Rivero M.L., López-Lara Martín F. “Management of Microcystic adnexal carcinoma: A propos of a case” XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- Rubí Olea L., SanchezBelda M., **Sanmamed Salgado N.**, Herrera Román M., Alonso Martínez P., Diezhandino García P., Garavis Vicente M.I., del Valle Rivero M.L., López-Lara Martín F. “Complete response after radiotherapy in Mantel Cell lymphoma.” XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- Sánchez Belda M., Rubí Olea L. , Miguel Pérez D., Anton García D., **Sanmamed Salgado N.**, Oteruelo Sanz C, Sandoval Cuadrado M.P., Pérez García E. J. , Cuadrillero Martín F., López-Lara Martín F. “Implantable Cardioverter-defibrillator control during the pulmonary radiotherapy treatment” XVIII National congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- DiezhandinoGarcia P., Alonso Martínez P., SanchezBelda M., Garavis Vicente M.I, Rubi Olea L., **Sanmamed Salgado N.**, Herrera Román M., López-Lara Martín F. “Neuropathic pain and bladder spasms treated with Tapentadol” XVIII National

congress of the Spanish association of Radiation Oncology. Valencia 4th-6th of June 2015.

- **Noelia Sanmamed Salgado**, María Sánchez Belda, María Herrera Román, Victoria PascualEscudero, Pilar Alonso Martinez, Patricia DiezhandinoGarcía « Epidemiology of contralateral breast cancer» IV Gynecology oncology and Breast Pathology Meeting of Castilla y León. León, 5th- 7th of may 2016.

- **Noelia Sanmamed Salgado**, María Sánchez Belda, María Herrera Román, Victoria PascualEscudero, Pilar Alonso Martinez, Pilar Alonso Martínez, Patricia DiezhandinoGarcía ; María Luisa Del Valle Rivero « Tumor phyllodes metastatic » IV Gynecology oncology and Breast Pathology Meeting of Castilla y León. León, 5th- 7th of may 2016.

- **Noelia Sanmamed Salgado**, María Luisa Del Valle Rivero, Álvaro Sanz Rubiales, Ángel Del Castillo Belmonte, Victoria Pascual Escudero, María Sánchez Belda « ACOSOG Z0011 ¿Realityorfiction? » IV Gynecology oncology and Breast Pathology Meeting of Castilla y León. León, 5th- 7th of may 2016.

3. PUBLICATIONS

3.a. International Publications:

- **Sanmamed N**, Chung P, Berlin A, Adleman J, Borg J, Lao B, Ghai S, Weersink R, Simeonov A, Rink A, Menard C, Helou J. Dose to the Bladder Neck in MRI-guided High Dose-Rate Prostate Brachytherapy: Impact on Acute Urinary Toxicity and Health-Related Quality of Life. *Brachytherapy*. 2019 Jul - Aug;18(4):477-483. doi: 10.1016/j.brachy.2019.02.003. Epub 2019 May 17.

- Glicksman R, **Sanmamed N**, Thoms J, Zlotta AR, Finelli A, van der Kwast T, Sweet J, Jewett M, Klotz LH, Rosewall T, Fleshner NE, Bristow RG, Warde P, Berlin A. A phase I pilot study of pre-operative radiotherapy for prostate cancer: Long-term toxicity

and oncologic outcomes. *Int J Radiat Oncol Biol Phys.* 2019 May 1;104(1):61-66. doi: 10.1016/j.ijrobp.2018.12.054. Epub 2019 Jan 6.

- **Sanmamed N**, Berlin A, Beiki-ardakani A, et al. (April 10, 2018) Magnetic Resonance Imaging-guided Brachytherapy Re-irradiation for Isolated Local Recurrence of Soft Tissue Sarcoma. *Cureus* 10(4): e2457.

- Hanan Goldberg, Abu-Hijlih Ramiz; Rachel Glicksman; **Noelia S. Salgado**; Thenappan Chandrasekar; Zachary Klaassen; Christopher J Wallis; Ali Hosni; Fabio Y Morales; Sangeet Ghai; Girish S Kulkarni; Robert J Hamilton; Nathan Perlis; Ants Toi; Andrew Evans; Theo V Kwast; Peter Cheung; Antonio Finelli; Neil Fleshner; Alejandro Berlin. Extra-prostatic Extension in Core Biopsies Epitomizes High-risk but Locally-treatable Prostate Cancer. *European Urology Oncology.* 2019 February; 2 (1):88-96. <https://doi.org/10.1016/j.euo.2018.05.003>

- Berlin A, Moraes FY, **Sanmamed N**, Glicksman R, Koven A, Espin-Garcia O, Leite ETT, Silva JLF, Gadia R, Nesbitt M, Catton CN, Kaffenberger S, Salami SS, Morgan TM, Hearn JWD, Jackson WC, Mehra R, Chung P, Fleshner NE, Zumsteg ZS, Dess RT, Feng FY, Finelli A, Spratt DE. International multi-center validation of an intermediate-risk subclassification of prostate cancer treated with radical treatment without hormone therapy. *J Urol.* 2018 Aug 25. pii: S0022-5347(18)43782-2. doi: 10.1016/j.juro.2018.08.044.

3.b. National Publications:

- José María Prieto de Paula, **Noelia Sanmamed Salgado**, J. A. Otero Rodríguez, Silvia Franco Hidalgo, José María Romo Gil “ Sobre la importancia del informe clínico en la gestión de una unidad clínica quirúrgica” *Cirugía española: Organó oficial de la Asociación Española de Cirujanos*, ISSN 0009-739X, Vol. 91, Nº. 9, 2013, págs. 617-618

- José María Prieto de Paula, **Noelia Sanmamed Salgado**, Helena Castro López, Silvia Franco Hidalgo. Afectación hepática e infección por Parvovirus B19 en adultos sanos. Gastroenterología y hepatología, ISSN 0210-5705, Vol. 36, Nº. 6, 2013, págs. 440-441

- José María Prieto de Paula, **Noelia Sanmamed Salgado**, C. Pérez Fernández, C.G. Escudero Piñeiro, Silvia Franco Hidalgo. Enalapril y secreción inadecuada de hormona antidiurética. Semergen: revista española de medicina de familia, ISSN 1138-3593, Nº. 7, 2013, págs. 400-401

- López Pedreira R, Cartón Sánchez P, **Sanmamed Salgado N**, Prieto de Paula JM. Sítios ambiguos or heterotaxia. Med Clin (Barc). 2013 Oct 19;141(8):370. doi: 10.1016/j.medcli.2013.03.007. Epub 2013 May 13. Spanish.

- José María Prieto de Paula, Eduardo Mayor Toranzo, Noelia Sanmamed Salgado, Silvia Franco Hidalgo. Elevación del CA 19.9 en ausencia de tumor de páncreas. Gastroenterología y hepatología, ISSN 0210-5705, Vol. 36, Nº. 7, 2013, págs. 495-496

3.c. Book Chapters:

- **Sanmamed Salgado N**, LoizaSalazar L, RubíOlea L. “Graves Basedow disease, primary hyperparathyroidism, metamizol hepatotoxicity and papilar carcinoma of thyroid in one patient”. III Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2013; 359- 360.

- **Sanmamed Salgado N**, LoizaSalazar L, RubíOlea L. “Atoll sign in neumonitis postradiation”. IV Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2014; 423.

- **Sanmamed Salgado N**, Rubí Olea L., Herrera Román M., «Multifocal Paraganglioma ». V Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2015; 345-346

- Herrera Román M., **Sanmamed Salgado N.**, « Cord compression in oncology». V Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2015; 221-222

- LoaizaSalazar L, RubíOlea L, **Sanmamed Salgado N.** “Radiochemotherapy in cervical cancer” III Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2013; 220-222.

- RubíOlea L, LoaizaSalazar L, **Sanmamed Salgado N.** “Colon cancer in the genes and diet” III Prizes to the best resident clinical cases. Dr. D. Miguel García Muñoz. Valladolid. 2013; 347-348

- Soto de Prado D, Alonso Martinez P, Loaiza Salazar L, Rubí Olea L, **Sanmamed Salgado N.** y cols. (eds). “Clinical experience with pazopanib as first line in kidney carcinoma in young patient with ischemic cardiopatya and kidney insufficiency” Clinical files of Kidney cancer . Ed. GlaxoSmithkline. Madrid, 2013; pág: 23-28. ISBN: 978-84-695-8143-8

4. TEACHING AND RESEARCH

4.a. Courses:

- Introductory course Emergency
- Course management system and Eclipse ARIA
- Course of research methodology
- Patient Safety Course
- Health Management Course Castile and Leon
- Course of medical bioethics
- Course literature search
- Upgrading radiation protection in radiotherapy
- Days of breast cancer (Madrid 26 and April 27, 2013)
- Course of gynecologic brachytherapy, Bilbao Hospital de Cruces (March 2014)

- Course planning and contouring head and neck tumors, University Hospital of Pamplona (April 2014)
- Course control of cancer pain (Grunenthal)
- Days of nutrition in cancer patients, Hospital 12 de Octubre Madrid
- Days hospice Castile and Leon, Valladolid Hospital Benito Menni
- New therapies in prostate cancer (Janssen)
- Indications of radiotherapy sessions residents, Benasque (June 2014)
- Design of volumes in radiation oncology, Clinic Barcelona (October 2014) Hospital
- Course supervisor of radioactive facilities, Polytechnic University and HospitanCreu and Sant Pau Barcelona (January 2015)
- Oncology borderless Mundipharma Madrid (February 2015)
- Course support in radiotherapy, Hospital La Paz Madrid (March 2015)
- Monographic course online pancreatic cancer
- Refresher Course in prostate cancer. From clinical guidelines to clinical practice
- ASCO challenges in prostate cancer management. Online study program (ongoing)
- Days of breast cancer AECC, Madrid (May 2015)
- Attendance at various conferences in the field of oncology: Abiterona in prostate cancer, ongoing review of treatment of pancreatic cancer, hormonal treatment in breast cancer...

4.b Ongoing projects :

- Tumor-targeted radiotherapy for localized prostate cancer prostate cancer through MR-guided HDR brachytherapy (HDR) or integrated VMAT (IB-VMAT). Dosimetry, toxicity and HQoL analysis.
- Relation of neurovascular bundles with toxicity outcomes in patients treated with HDR MRI guided.
- Experience using a hydrogel spacer (SpaceOAR) in patients undergo stereotactic beam radiation (SBRT) 30 Gy in 5 fractions plus focal high dose brachytherapy 15 Gy single fraction.
- Low Dose-Rate brachytherapy vs Hypofractionated External beam radiotherapy for intermediate -risk prostate cancer.
- Metanalysis comparing external beam radiotherapy vs external beam radiotherapy plus brachytherapy in prostate cancer.

- Free PSA ratio as a predictor of adverse outcomes after curative-intent external beam radiation therapy for prostate cancer: a novel application of an “old” biomarker.
- Post-operative Radiotherapy with or without Hormone Therapy: Impact of RTOG 9601 and GETUG 16 on clinical practice.
- Synergistic use of hydrogel spacer and MR-guidance to increase the radiotherapeutic index for localized prostate cancer
- Salvage Prostatectomy After Focal Therapy – Single Centre Experience.
- HIFU as salvage treatment postradiation in prostate cancer- Single Centre Experience.